Monthly Report on Short-term Transactions of Electricity in India

July, 2014



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Abbreviations

Abbreviation	Expanded Version
ACBIL	ACB (India) Limited
ACP	Area Clearing Price
ACV	Area Clearing Volume
AD HYDRO	AD Hydro Power Limited
BALCO	Bharat Aluminium Company Limited
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPL	Coastal Gujarat Power Limited
CHUZACHEN HEP	Chuzachen Hydro electric power project
DB Power	Diligent Power Pvt. Ltd.
DCPP	Donga Mahua Captive Power Plant
DVC	Damodar Valley Corporation
EMCO	EMCO Energy Limited
ESSAR STEEL	Essar Steel Ltd
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
IEX	Indian Energy Exchange Limited
J&K	Jammu & Kashmir
JINDAL POWER	Jindal Power Limited
JINDAL STAGE-II	Jindal Power Ltd Stage II
JITPL	Jindal India Thermal Power Ltd.
KARCHAM WANGTOO	Jaypee Karcham Hydro Corporation Limited
LANCO BUDHIL	Lanco Budhil Hydro Power Private Limited
LANKO_AMK	Lanco Amarkantak Power Private Limited
MALANA	Malana Hydroelectric Plant
Meenakshi	Meenakshi Energy Private Limited
MP	Madhya Pradesh
MUs	Million Units
NEEPCO Stations	North Eastern Electric Power Corporation Limited. Stations
NHPC Stations	National Hydro Electric Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLDC	National Load Despatch Centre
NSPCL	NTPC - SAIL Power Company Private Limited
ONGC PALATANA	Oil and Natural Gas Corporation, Palatana
OTC	Over The Counter
PX	Power Exchange
PXIL	Power Exchange India Limited
RANGIT HEP	Rangit Hydro electric power project
REC	Renewable Energy Certificate

RGPPL	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Despatch Centre
RTC	Round - the- Clock
SHREE CEMENT	Shree Cement Limited
SIMHAPURI	Simhapuri Energy Private Limited
STERLITE	Sterlite Energy Limited
TEESTA HEP	Teesta Hydro electric power project
UI	Unscheduled Interchange
UT	Union Territory
VANDANA VIDYUT	Vandana Vidyut Limited

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. Here, "short-term transactions of electricity" refers to the contracts of less than one year period, for electricity transacted (inter-state & intra-state) 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 transacted through power exchanges; (iv) to analyse bilateral contracts executed by traders; (v) to provide information on volume and price of Renewable Energy Certificates (RECs) transacted through power exchanges; and (vi) to disclose/disseminate all relevant market information. The analysis of the report for the month of July, 2014 is as under:

I: Volume of Short-term Transactions of Electricity

During the month of July 2014, total electricity generation excluding generation from renewable and captive power plants in India was 89490.59 MUs (Table-1).

Of the total electricity generation, 9654.48 MUs (10.79%) were transacted through short-term, comprising of 5552.49 MUs (6.20%) through Bilateral (through traders and term-ahead contracts on Power Exchanges and directly between distribution companies), followed by 2351.44 MUs (2.63%) through day ahead collective transactions on Power Exchanges (IEX and PXIL) and 1750.55 MUs (1.96%) through UI (Table-1 & Figure-2).

Of the total short-term transactions, Bilateral constitute 57.51% (37.42% through traders and term-ahead contracts on Power Exchanges and 20.09% directly between distribution companies) followed by 24.36% through day ahead collective transactions on Power Exchanges and 18.13% through UI (Table-1& Figure-1). Daily volume of short-term transactions is shown in Table-17 & Figure-3.

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 & Figure-4. The trading

licensees undertake 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 were 46 trading licensees as on 31.07.2014, of which only 22 have engaged in trading during July 2014. Top 5 trading licensees had a share of 72.14% in the total volume traded by all the licensees.

Herfindahl-Hirschman Index (HHI) has been used for measuring the competition among the trading licensees. Increase in the HHI generally indicates a decrease in competition and an increase of market power, whereas decrease indicates the opposite. A HHI below 0.15 indicates non-concentration, a HHI between 0.15 to 0.25 indicates moderate concentration and a HHI above 0.25 indicates high concentration. The HHI computed for volume of electricity traded by trading licensees (inter-state & intra-state) was 0.1895 for the month of July 2014, which indicates that there was moderate concentration of market power (Table-2).

The volume of electricity transacted through IEX and PXIL in the day ahead market was 2316.97 MUs and 34.47 MUs respectively. The volume of total Buy bids and Sale bids was 3775.1 MUs and 2952.66 MUs respectively in IEX and 66.51 MUs and 44.47 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was almost greater demand in IEX (1.28 times) and PXIL (1.50 times) when compared with the supply offered through these exchanges.

The volume of electricity transacted through IEX and PXIL in the term-ahead market was 20.37 MUs and 54.91 MUs respectively (Table-6 & Table-7).

II: Price of Short-term Transactions of Electricity

(i) Price of electricity transacted through Traders: Weighted average sale price has been computed for the electricity transacted through traders and it was $\overline{\mathbf{x}4.03/kWh}$. Weighted average sale price was also computed for the transactions during Round the Clock (RTC), Peak, and Off-Peak periods separately, and the sale prices were $\overline{\mathbf{x}4.06/kWh}$, $\overline{\mathbf{x}4.37kWh}$ and $\overline{\mathbf{x}3.53/kWh}$ respectively. Minimum and Maximum sale prices were $\overline{\mathbf{x}1.83/kWh}$ and $\overline{\mathbf{x}6.00/kWh}$ respectively (Table-3 & 4).

(ii) *Price of electricity transacted Through Power Exchanges:* Minimum, Maximum and Weighted Average Prices have been computed for the electricity transacted through IEX

and PXIL separately. The Minimum, Maximum and Weighted Average prices were $\overline{1.07/kWh}$, $\overline{19.00/kWh}$ and $\overline{3.50/kWh}$ respectively in IEX and $\overline{1.00/kWh}$, $\overline{6.30/kWh}$ and $\overline{3.53/kWh}$ respectively in PXIL (Table-5).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹4.41/kWh and ₹3.74/kWh respectively (Table-6 and Table-7).

(iii) Price of electricity transacted Through UI: The average UI price was ₹2.87/kWh for all India grid. Minimum and Maximum UI prices were ₹0.00/kWh and ₹8.24/kWh respectively in the All India Grid.

The prices of electricity transacted through trading licensees, power exchanges and UI and their comparison is shown in Table-18, Figure-5 & 6.

III: Volume of Short-term Transactions of Electricity (Regional Entity¹-Wise)

Of the total bilateral transactions, top 5 regional entities sold 52.10% of the volume, and these were Rajasthan, Himachal Pradesh, Jaypee Karcham Hydro Corporation Ltd, Karnataka and Jammu & Kashmir. Top 5 regional entities purchased 70.18% of the volume, and these were Haryana, Punjab, Andhra Pradesh, Telangana and Delhi (Table-9, 10 & 19).

Of the total Power Exchange transactions, top 5 regional entities sold 45.11% of the volume, and these were Himachal Pradesh, Jindal Power Ltd, Jaypee Karcham Hydro Corporation Ltd, Gujarat and Sterlite India Ltd. Top 5 regional entities purchased 54.44% of the volume, and these were Rajasthan, Gujarat, Maharashtra, Uttar Pradesh and Punjab (Table-11, 12 & 19).

Of the total UI transactions, top 5 regional entities underdrew 42.86% of the volume, and these were Maharashtra, Gujarat, Haryana, Delhi and Tamilnadu. Top 5 regional entities overdrew 38.90% of the volume, and these were Uttar Pradesh, Punjab, Telangana, Kerala and Rajasthan (Table-13, 14 & 19).

Regional entity-wise total volume of net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchanges and UI is shown in Table-15 &

¹ In case of a state, the entities which are "selling" also include generators connected to state grid and the entities which are "buying" also include open access consumers.

19. Top 5 electricity selling regional entities were Himachal Pradesh, Jaypee Karcham Hydro Corporation Ltd., Jindal Power Ltd, Karnataka and Jammu & Kashmir. Top 5 electricity purchasing regional entities were Punjab, Haryana, Telangana, Andhra Pradesh and Uttar Pradesh.

IV: Congestion² on Inter-state Transmission Corridor for Day-Ahead Market on Power Exchanges

Power Exchanges use a price discovery mechanism in which the aggregate demand and supply are matched to arrive at an unconstrained market price and volume. This step assumes that there is no congestion in the inter-state transmission system between different regions. However, in reality, the system operator, NLDC in coordination with RLDCs, limits the flow due to congestion in the inter-state transmission system. In such a situation, Power Exchanges adopt a mechanism called "Market Splitting"³.

In the month of July 2014, congestion occurred in both the power exchanges, the details of which are shown in Table-16. The volume of electricity that could not be cleared due to congestion and could not be transacted through power exchanges is the difference between unconstrained cleared volume (volume of electricity that would have been scheduled, had there been no congestion) and actual cleared volume.

During the month, the volume of electricity that could not be cleared in the power exchanges due to congestion was 8.84% and 1.06% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 96.91% in IEX and 31.92% in PXIL.

² "Congestion" means a situation where the demand for transmission capacity exceeds the available transfer capability

³ "Market Splitting" is a mechanism adopted by Power Exchange where the market is split in the event of transmission congestion, into predetermined (by NLDC) bid areas or zones, which are cleared individually at their respective area prices such that the energy balance in every bid area is reached based upon the demand and supply in individual bid areas and using the available transmission corridor capacity between various bid areas simultaneously"

As a result of this market splitting the price of electricity in the importing region, where demand for electricity is more than supply, becomes relatively higher than the price of electricity in the exporting region.

V: Analysis of Bilateral Contracts executed by Traders in August 2014⁴

(i) Duration of bilateral contracts:

During August, 2014, a total of 112 bilateral contracts (excluding banking/swap contracts) have been executed by traders for the volume of 2011 MUs. Figure-7 shows the percentage of contracts categorized according to the period of power supply. It can be observed from the figure that 54.5% of the contracts were executed for a duration of up to one week, followed by 45.5% of the contracts were executed for a duration of more than a week and upto one month.

During the same period, 50 banking/swapping bilateral contracts were also executed for the volume of 224 MUs.

(ii) Forward Curve based on price of bilateral contracts:

A forward curve reflects present day's expectation of prices for a future period. The forward curve of electricity prices are based on sale prices of bilateral contracts executed by traders. For constructing the forward curve, the price of each contract is taken to be price for each day of that contract's period. On the basis of these prices, weighted average price for each day is calculated using various sale prices of contracts for delivery on that particular day.

Figure-8 represents the forward curve of electricity sale prices for the period from August 2014 to May 2015 based on bilateral contracts⁵ executed till August, 2014. The forward curve drawn for July 2014 has also been depicted for the period September 2014 onwards for comparison purposes. It is observed that there is a slight decrease in the forward prices in October, 2014 because contracts executed in August 2014 were at lower prices when compared to contracts executed in July 2014. Since, no new contracts are executed for delivery beyond October 2014, the forward prices for the period from November 2014 to May 2015 continues to be same.

 ⁴ 'Monthly OTC (Electricity Traders) report' based on analysis of weekly reports has been discontinued and Analysis of Bilateral Contracts is being presented in this report hereinafter.
 ⁵ Excluding Banking/Swapping contracts

VI: Volume and Price of Renewable Energy Certificates (RECs)

The concept of Renewable Energy Certificates (RECs) seeks to address mismatch between availability of renewable energy sources and the requirement of the obligated entities to meet their renewable purchase obligation by purchasing green attributes of renewable energy remotely located in the form of RECs. The REC mechanism is a market based instrument, to promote renewable sources of energy and development of market in electricity.

One REC is equivalent to 1 MWh of electricity injected into the grid from renewable energy sources. The REC is exchanged only in the power exchanges approved by CERC within the band of a floor price and forbearance (ceiling) price as notified by CERC from time to time. The first REC trading session was held on power exchanges in March 2011.

The details of REC transactions for the month of July 2014 are shown in Table-20. The market clearing volume of Solar RECs transacted on IEX and PXIL were 498 and 6135 respectively and the market clearing price of these RECs was ₹9300/MWh on both the power exchanges. Market clearing volume of Non-Solar RECs transacted on IEX and PXIL were 13609 and 18200 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

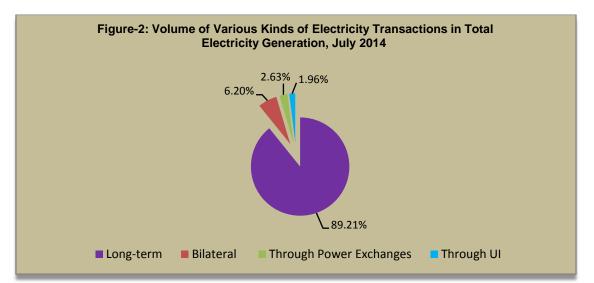
The gap between the volume of buy and sell bids of RECs placed through power exchanges show that there was less demand for Solar RECs and Non-Solar RECs. For Solar RECs, the ratio of buy and sell bids was 0.003 and 0.055 in IEX and PXIL respectively. For Non-Solar RECs, the ratio of buy and sell bids was 0.003 and 0.003 and 0.005 in IEX and PXIL respectively.

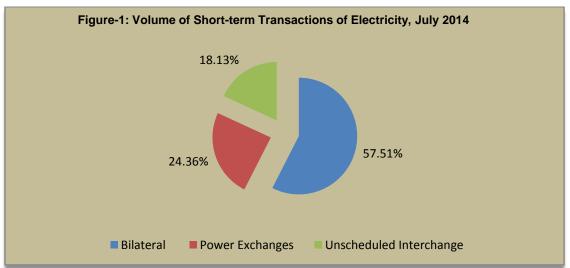
VII: Inferences:

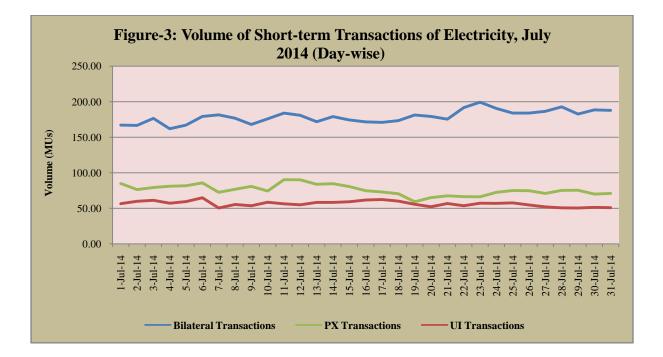
- The percentage of short-term transactions of electricity to total electricity generation was 10.79%.
- Of the total short-term transactions of electricity, 57.51% was transacted through bilateral (through traders and term ahead contracts on power exchanges and directly by distribution companies), followed by 24.36% through Power Exchanges and 18.13% through UI.
- Top 5 trading licensees had a share of 72.14% in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for volume of electricity traded by trading licensees was 0.1895, indicating moderate concentration of market power.
- The price of electricity transacted through trading licensees (₹4.03/kWh) was higher when compared with the price of electricity transacted through IEX (₹3.50/kWh) and PXIL (₹3.53/kWh) respectively.
- The price of electricity transacted through UI was ₹2.87/kWh
- The gap between the volume of buy bids and sale bids placed through power exchanges indicates that there was almost more demand in IEX (1: 1.28) and PXIL (1: 1.50) when compared with the supply offered through these exchanges.
- Top 5 electricity selling regional entities were Himachal Pradesh, Jaypee Karcham Hydro Corporation Ltd., Jindal Power Ltd, Karnataka and Jammu & Kashmir.. Top 5 electricity purchasing regional entities were Punjab, Haryana, Telangana, Andhra Pradesh and Uttar Pradesh.
- The volume of electricity that could not be cleared in the power exchanges due to congestion was 8.84% and 1.06% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 96.91% in IEX and 31.92% in PXIL.

- In August 2014, 54.5% of the bilateral contracts (excluding banking/swapping) were executed for a duration of up to one week, followed by 45.5% of the contracts were executed for a duration of more than a week and upto one month.
- There is an decreasing trend in the forward prices in October, 2014 because contracts executed in August 2014 were at lower prices when compared to contracts executed in July 2014.
- The market clearing volume of Solar RECs transacted on IEX and PXIL were 498 and 6135 respectively and the market clearing price of these RECs was ₹9300/MWh on both the power exchanges. Market clearing volume of Non-Solar RECs transacted on IEX and PXIL were 13609 and 18200 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

Table	Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), JULY 2014				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation	
1	Bilateral	5552.49	57.51%	6.20%	
	(i) Through Traders and PXs	3612.94	37.42%	4.04%	
	(ii) Direct	1939.56	20.09%	2.17%	
2	Through Power Exchanges	2351.44	24.36%	2.63%	
	(i) IEX	2316.97	24.00%	2.59%	
	(ii) PXIL	34.47	0.36%	0.04%	
3	Through UI	1750.55	18.13%	1.96%	
	Total	9654.48	100.00%	10.79%	
	Total Generation	89490.59	_	_	
Source: NLDC					







Tab	Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, JULY 2014			
Sr.No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl- Hirschman Index	
1	PTC India Ltd.	38.98%	0.1519	
2	Tata Power Trading Company (P) Ltd.	10.98%	0.0121	
3	Mittal Processors (P) Ltd.	8.68%	0.0075	
4	JSW Power Trading Company Ltd	6.96%	0.0048	
5	NTPC Vidyut Vyapar Nigam Ltd.	6.55%	0.0043	
6	Adani Enterprises Ltd.	6.01%	0.0036	
7	Knowledge Infrastructure Systems (P) Ltd	3.30%	0.0011	
8	Manikaran Power Ltd.	3.25%	0.0011	
9	GMR Energy Trading Ltd.	3.19%	0.0010	
10	Reliance Energy Trading (P) Ltd	2.60%	0.0007	
11	Shree Cement Ltd.	2.38%	0.0006	
12	Jaiprakash Associates Ltd.	1.69%	0.0003	
13	National Energy Trading & Services Ltd.	1.40%	0.0002	
14	Arunachal Pradesh Power Corporation (P) ltd	1.19%	0.0001	
15	RPG Power Trading Company Ltd.	0.97%	0.0001	
16	Instinct Infra & Power Ltd.	0.79%	0.0001	
17	Essar Electric Power Development Corp. Ltd.	0.41%	0.0000	
18	My Home Power Private Ltd.	0.29%	0.0000	
19	SN Power Markets Pvt. Ltd.	0.20%	0.0000	
20	Customized Energy Solutions India (P) Ltd.	0.09%	0.0000	
21	Indrajit Power Technology (P) Ltd.	0.09%	0.0000	
22	Pune Power Development (P) Ltd.	0.01%	0.0000	
	TOTAL	100.00%	0.1895	
	Top 5 trading licensees	72.14%		
Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions				
(inter-state & intra-state) and the transactions undertaken through power exchanges.				

Note 2: Volume of electricity transacted by Global Energy Ltd is not included.

Source: Information submitted by trading licensees

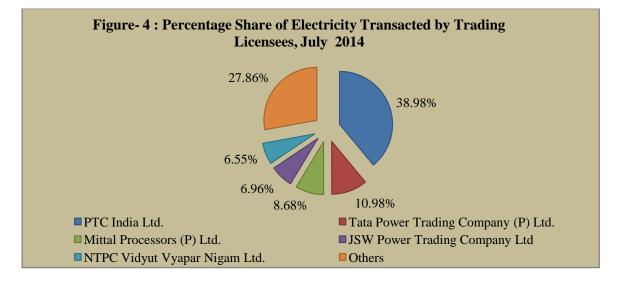


	Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JULY 2014			
Sr.No Sale Price of Traders (₹/kWh)				
1	Minimum	1.83		
2 Maximum		6.00		
3 Weighted Average 4.03		4.03		
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Source: Information submitted by trading licensees

Table	Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JULY 2014			
Sr.NoPeriod of TradeSale Price of Traders (₹/kWh)				
1	RTC	4.06		
2	PEAK	4.37		
3	OFF PEAK	3.53		

Source: Information submitted by trading licensees

Table	Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, JULY 2014			
Sr.NoACPPrice in IEX (₹/kWh)Price in PXIL (₹/kWh)			Price in PXIL (₹/kWh)	
1	Minimum	1.07	1.00	
2	Maximum	19.00	6.30	
3	Weighted Average	3.50	3.53	

Source: Information submitted by IEX and PXIL

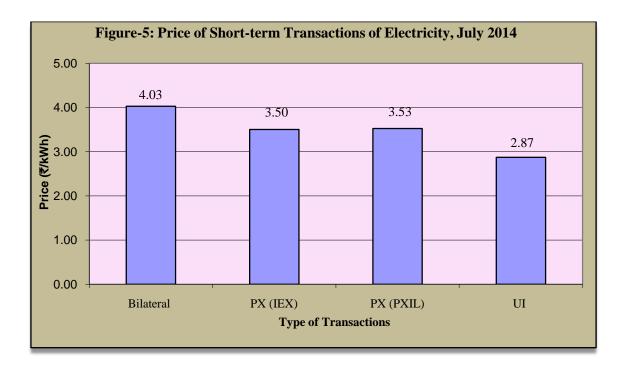
Tabl	Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JULY 2014			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	14.53	4.61	
2	Day Ahead Contingency Contracts	5.84	3.90	
	Total	20.37	4.41	

Source: IEX

Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JULY 2014			
Sr.No			Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	22.18	3.99
2	Daily Contracts	32.73	3.57
	Total	54.91	3.74
Source: DVII			

Source: PXIL

Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH UI, JULY 2014			
Sr.No		Price in All India Grid (₹/kWh)	
1	Minimum	0.00	
2	Maximum	8.24	
3	3 Average 2.87		
Source	Source: NLDC		



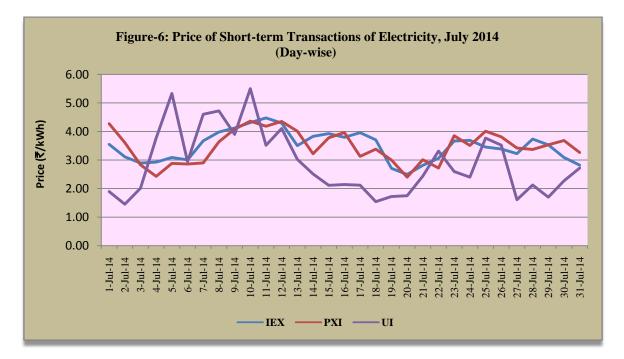


Table-9: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL, JULY 2014							
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume					
Rajasthan	755.88	16.51%					
Himachal Pradesh	626.50	13.68%					
KARCHAM WANGTOO	366.09	7.99%					
Karnataka	324.40	7.08%					
J&K	312.95	6.83%					
Gujarat	304.46	6.65%					
MP	266.58	5.82%					
West Bengal	225.85	4.93%					
JINDAL POWER	202.85	4.43%					
SIMHAPURI	193.43	4.22%					
STERLITE	172.21	3.76%					
SHREE CEMENT	136.65	2.98%					
AD HYDRO	124.91	2.73%					
Chattisgarh	103.35	2.26%					
Haryana	89.51	1.95%					
MAITHON POWER LTD	77.16	1.68%					
DVC	63.77	1.39%					
Meghalaya	47.04	1.03%					
NSPCL	38.28	0.84%					
Orissa	35.51	0.78%					
Assam	30.03	0.66%					
Tripura	25.18	0.55%					
Jharkhand	18.69	0.41%					
Delhi	15.52	0.34%					
Telangana	9.19	0.20%					
ACBIL	7.98	0.17%					
Uttarakhand	5.63	0.12%					
Total	4579.62	100.00%					
Volume of sale by top 5 States	2385.83	52.10%					

Table-10: VOLUME OF ELECTRICITY	PURCHASE THROUGH BI	LATERAL, JULY 2014		
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume		
Haryana	1125.48	22.39%		
Punjab	1082.58	21.54%		
Andhra Pradesh	522.30	10.39%		
Telangana	439.24	8.74%		
Delhi	357.64	7.12%		
Uttar Pradesh	250.40	4.98%		
Bihar	236.83	4.71%		
West Bengal	208.26	4.14%		
Maharashtra	194.35	3.87%		
Rajasthan	129.88	2.58%		
Jharkhand	129.20	2.57%		
Orissa	123.27	2.45%		
GOA	39.21	0.78%		
Dadra & Nagar Haveli	28.10	0.56%		
DVC	23.99	0.48%		
Chattisgarh	22.78	0.45%		
Uttarakhand	21.77	0.43%		
Karnataka	21.02	0.42%		
Gujarat	16.70	0.33%		
Daman and Diu	14.28	0.28%		
UT Chandigarh	10.46	0.21%		
Sikkim	7.99	0.16%		
Assam	7.52	0.15%		
Nagaland	3.90	0.08%		
J&K	3.67	0.07%		
Kerala	3.63	0.07%		
Meenakshi	0.99	0.02%		
MP	0.33	0.01%		
Himachal Pradesh	0.20	0.00%		
Tripura	0.07	0.00%		
Total	5026.03	100.00%		
Volume of Purchase by top 5 States	3527.23	70.18%		

Name of the State/UT/Other Regional Entity Volume of Sale (MUs) % of Volume Entity 301.62 12.83% JINDAL POWER 234.27 9.66% KARCHAM WANGTOO 183.38 7.80% Gujarat 178.70 7.60% STERLITE 162.76 6.92% Kamataka 117.82 5.01% Chattisgarh 115.24 4.90% Delhi 90.81 3.86% Maharashtra 77.95 3.32% J & K 74.68 3.18% Maharashtra 60.56 2.58% DB POWER 58.65 2.49% Sitkim 55.72 2.37% A CBIL 55.05 2.34% DCPP 46.70 1.99% AD HYDRO 35.73 1.52% OLUZACHEN HEP 31.40 1.34% VANDANA VIDYUT 30.03 1.28% DVC 29.03 1.23% DVC 29.03 1.23% DIFL 2.52 0	Table-11: VOLUME OF ELECTRICITY SALE THROUGH POWER EXCHANGES, JULY 2014						
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Total 2351.44 100.00%	BALCO	0.54	0.02%				
	Assam	0.11	0.00%				
Volume of sale by top 5 States 1060.72 45 11%	Total	2351.44	100.00%				
	Volume of sale by top 5 States	1060.72	45.11%				

Table-12: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGES, JULY 2014						
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume				
Rajasthan	355.50	15.12%				
Gujarat	294.69	12.53%				
Maharashtra	260.43	11.08%				
Uttar Pradesh	190.51	8.10%				
Punjab	179.02	7.61%				
Telangana	134.20	5.71%				
Andhra Pradesh	114.14	4.85%				
ESSAR STEEL	113.21	4.81%				
Haryana	99.03	4.21%				
Assam	98.43	4.19%				
Bihar	89.93	3.82%				
Delhi	76.73	3.26%				
MP	62.95	2.68%				
West Bengal	48.05	2.04%				
Uttarakhand	34.53	1.47%				
Orissa	30.89	1.31%				
Karnataka	27.65	1.18%				
Daman and Diu	27.38	1.16%				
BALCO	26.63	1.13%				
Chattisgarh	22.43	0.95%				
Kerala	21.19	0.90%				
J&K	17.10	0.73%				
Meghalaya	10.37	0.44%				
UT Chandigarh	8.17	0.35%				
Tamilnadu	4.74	0.20%				
Meenakshi	1.62	0.07%				
Himachal Pradesh	0.68	0.03%				
Tripura	0.04	0.00%				
Tripura	0.61	0.03%				
Arunachal Pradesh	0.36	0.02%				
Manipur	0.27	0.01%				
Total	2351.44	100.00%				
Volume of purchase by top 5 States	1280.16	54.44%				

Table-13: VOLUME OF ELECTRICITY EXPORT THROUGH UI, JULY 2014							
Name of the State/UT/Other Regional Entity	Volume of Export (MUs)	% of Volume					
Maharashtra	208.64	16.06%					
Gujarat	96.87	7.45%					
Haryana	95.65	7.36%					
Delhi	85.61	6.59%					
Tamilnadu	70.12	5.40%					
Rajasthan	70.05	5.39%					
Punjab	57.56	4.43%					
MP	54.84	4.22%					
Andhra Pradesh	53.84	4.14%					
NHPC Stations	41.76	3.21%					
Karnataka	38.59	2.97%					
Uttar Pradesh	37.73	2.90%					
West Bengal	37.58	2.89%					
Bihar	36.13	2.78%					
J&K	31.86	2.45%					
Chattisgarh	30.90	2.38%					
Jharkhand	26.93	2.07%					
DVC	26.93	1.91%					
		1.70%					
Orissa	22.14	1.25%					
Uttarakhand	16.29	1.22%					
STERLITE	15.80	1.21%					
JINDAL POWER	15.68						
CGPL	14.59	1.12%					
Telangana	11.02	0.85%					
Dadra & Nagar Haveli	9.30	0.72%					
MAITHON POWER LTD	8.58	0.66%					
Meghalaya	8.02	0.62%					
KARCHAM WANGTOO	6.94	0.53%					
Himachal Pradesh	6.70	0.52%					
Sikkim	5.21	0.40%					
Manipur	5.10	0.39%					
Pondicherry	4.55	0.35%					
ACBIL	4.28	0.33%					
Goa	4.14	0.32%					
Nagaland	4.13	0.32%					
NEEPCO Stations	3.97	0.31%					
Assam	3.95	0.30%					
LANKO_AMK	3.90	0.30%					
GOA	3.16	0.24%					
Tripura	2.44	0.19%					
Kerala	2.30	0.18%					
Arunachal Pradesh	2.05	0.16%					
NSPCL	1.95	0.15%					
SHREE CEMENT	1.85	0.14%					
BALCO	1.75	0.13%					
		0.13%					
Mizoram	1.70	0.13%					
DCPP	1.65	0.12%					
Daman and Diu	1.51	0.12 %					
NJPC	1.49	0.10%					
AD HYDRO	1.31	0.10%					
SIMHAPURI	1.31						
UT Chandigarh	1.10	0.08%					
RGPPL(Dabhol)	0.06	0.00%					
Total	1299.44	100.00%					
Volume of Export by top 5 States	556.89	42.86%					

Table-14: VOLUME OF ELECTRICITY IMPORT THROUGH UI, JULY 2014						
Name of the State/UT/Other Regional Entity	Volume of Import (MUs)	% of Volume				
Uttar Pradesh	185.55	13.74%				
Punjab	106.31	7.87%				
Telangana	106.11	7.86%				
Kerala	65.57	4.86%				
Rajasthan	61.76	4.57%				
Orissa	53.83	3.99%				
West Bengal	49.45	3.66%				
Chattisgarh	47.48	3.52%				
J&K	42.90	3.18%				
Assam	42.67	3.16%				
Bihar	40.92	3.03%				
DVC	39.11	2.90%				
Haryana	36.30	2.69%				
Gujarat	35.80	2.65%				
Uttarakhand	35.43	2.62%				
MP	34.99	2.59%				
Karnataka	33.48	2.48%				
UT Chandigarh	29.82	2.21%				
Maharashtra	28.22	2.09%				
Himachal Pradesh	27.08	2.01%				
GOA	24.67	1.83%				
Andhra Pradesh	21.60	1.60%				
Delhi	20.70	1.53%				
Tamilnadu	20.21	1.50%				
Daman and Diu	17.26	1.28%				
Jharkhand	15.72	1.16%				
JINDAL POWER	15.20	1.13%				
SIMHAPURI	13.71	1.01%				
Tripura	10.54	0.78%				
CGPL	8.03	0.59%				
Arunachal Pradesh	7.77	0.58%				
Dadra & Nagar Haveli	7.11	0.53%				
STERLITE	6.99	0.52%				
NHPC Stations	6.77	0.50%				
Pondicherry	5.48	0.41%				
DCPP	4.88	0.36%				
ACBIL	4.29	0.32%				
RGPPL(Dabhol)	4.29	0.30%				
BALCO	3.82	0.28%				
Nagaland	3.55	0.26%				
KARCHAM WANGTOO	3.02	0.22%				
AD HYDRO	2.97	0.22%				
Meghalaya	2.86	0.21%				
MAITHON POWER LTD	2.69	0.20%				
Mizoram	2.54	0.19%				
SHREE CEMENT	2.54	0.19%				
Goa	2.03	0.15%				
NEEPCO Stations	1.73	0.13%				
NSPCL		0.13%				
	1.58	0.09%				
Sikkim		0.09%				
Manipur	1.18	0.05%				
	0.73					
LANKO_AMK	0.26	0.02%				
Total	1350.53	100.00%				
Volume of Import by top 5 States	525.30	38.90%				

Table-1	5: TOTAL VOLUME OF NET SHORT-TERM TRANSACTION WISE), JULY 2014	NS OF ELECTRICITY (REGIONAL ENTITY-
Sr.No.	Name of the State/UT/Other Regional Entity	Total volume of net short-term transactions of electricity*
1	Punjab	1310.35
2	Haryana	1015.09
3	Telangana	645.32
4	Andhra Pradesh	601.65
5	Uttar Pradesh	588.73
6	Bihar	331.56
7	Delhi	263.14
8	Maharashtra	196.41
9	Orissa	146.45
10	Assam	114.53
11	ESSAR STEEL	113.21
12	Jharkhand	99.30
13	Kerala	84.67
14	GOA	60.72
15	Daman and Diu	57.41
16	Uttarakhand	55.28
17	UT Chandigarh	47.36
18	BALCO	28.16
19	Dadra & Nagar Haveli	25.91
20	RGPPL(Dabhol)	4.05
21	Nagaland	3.32
22 23	Meenakshi	2.61
23	Pondicherry	0.93
24	Arunachal Pradesh	-1.91
25	Goa LANKO_AMK	-2.11 -3.64
20	Mizoram	-5.64
28	CGPL	-6.56
29	Manipur	-8.48
30	MALANA	-0.40
31	RANGIT HEP	-9.42
32	ONGC PALATANA	-10.08
33	ADHUNIK POWER LTD	-10.08
34	JINDAL STAGE-II	-10.09
35	NEEPCO Stations	-11.16
36	EMCO	-11.67
37	West Bengal	-13.53
38	LANCO BUDHIL	-20.90
39	JITPL	-22.54
40	GMR KAMALANGA	-25.16
41	NJPC	-28.68
42	VANDANA VIDYUT	-30.03
43	CHUZACHEN HEP	-31.40
44	NHPC Stations	-34.99
45	Tripura	-36.92
46	NSPCL	-38.66
47	DCPP	-43.49
48	Tamilnadu	-45.17
49	TEESTA HEP	-46.70
50	Meghalaya	-50.68
51	Sikkim	-51.71
52	DVC	-54.56
53	DB POWER	-58.65

54	ACBIL	-63.02					
55	MAITHON POWER LTD	-99.21					
56	SHREE CEMENT	-140.56					
57	Chattisgarh	-156.80					
58	AD HYDRO	-158.99					
59	SIMHAPURI	-192.74					
60	Gujarat	-232.84					
61	MP	-237.34					
62	Rajasthan	-286.79					
63	STERLITE	-343.78					
64	J&K	-355.82					
65	Karnataka	-398.65					
66	JINDAL POWER	-437.59					
67	KARCHAM WANGTOO	-553.39					
68	Himachal Pradesh	-906.86					
	* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchange and UI						
(-) indica	(-) indicates sale and (+) indicates purchase						

Tab	le-16: DETAILS OF CONGESTION IN POWER EX	CHANGES, J	ULY 2014					
	Details of Congestion	IEX	PXIL					
Α	Unconstrained Cleared Volume* (MUs)	2541.70	34.84					
В	Actual Cleared Volume and hence scheduled (MUs)	2316.97	34.47					
С	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B)	224.73	0.37					
D	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	8.84%	1.06%					
Е	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	96.91%	31.92%					
F	Congestion occurrence (%) time block wise							
	0.00 - 6.00 hours	24.65%	17.16%					
	6.00 - 12.00 hours	25.73%	31.58%					
	12.00 - 18.00 hours	25.17%	34.11%					
	18.00 - 24.00 hours 24.45% 17.16%							
	power would have been scheduled had there been no co	ngestion.						
Sourc	e: IEX & PXIL & NLDC							

Date	Bilate	(MUs), JULY	2014 (DAY-V Power Excl Clearing Vol Ahead	TRICITY IN INDIA Unscheduled Interchange (Over	Total Electricity Generation er (MU) as		
Date	Through Traders and PXs**	Direct	IEX	PXI	Drawl+ Under Generation)	given at CEA Website	
1-Jul-14	108.39	58.82	84.04	0.89	56.57	2820.97	
2-Jul-14	109.82	56.78	74.88	1.56	60.06	2969.89	
3-Jul-14	112.45	64.10	77.80	1.53	61.37	2953.20	
4-Jul-14	108.04	53.92	79.27	1.79	57.25	2984.31	
5-Jul-14	110.73	56.39	80.31	1.38	59.54	2994.88	
6-Jul-14	112.06	67.15	84.39	1.39	64.98	2930.86	
7-Jul-14	121.77	59.88	71.70	0.93	50.52	3002.65	
8-Jul-14	120.24	56.58	75.52	1.30	55.37	3014.47	
9-Jul-14	113.83	54.31	80.18	0.78	53.61	3068.33	
10-Jul-14	120.73	55.23	72.36	1.90	58.70	3061.58	
11-Jul-14	125.98	57.99	88.62	1.73	56.35	2984.07	
12-Jul-14	120.21	60.65	88.52	1.68	55.00	2954.11	
13-Jul-14	112.43	59.49	81.84	2.06	58.49	2916.59	
14-Jul-14	117.84	61.31	83.07	1.70	58.28	2942.67	
15-Jul-14	114.02	60.43	79.33	1.30	59.39	2946.01	
16-Jul-14	112.08	59.58	73.55	1.32	61.86	2901.69	
17-Jul-14	111.39	59.57	71.36	1.63	62.36	2901.01	
18-Jul-14	110.54	62.99	70.14	0.45	60.21	2764.05	
19-Jul-14	117.65	63.74	58.98	0.24	55.68	2764.05	
20-Jul-14	113.45	65.96	64.68	0.33	52.25	2696.41	
21-Jul-14	119.16	56.43	66.91	0.58	56.86	2767.48	
22-Jul-14	122.78	68.92	65.83	0.54	53.71	2796.72	
23-Jul-14	122.87	76.50	65.55	0.57	57.28	2774.89	
24-Jul-14	118.92	71.68	71.73	0.80	57.12	2801.04	
25-Jul-14	113.70	70.44	74.14	0.83	57.71	2856.22	
26-Jul-14	119.64	64.45	73.73	1.06	54.77	2884.60	
27-Jul-14	120.88	65.54	70.10	0.78	52.04	2812.89	
28-Jul-14	124.17	68.67	74.38	0.93	50.70	2783.39	
29-Jul-14	117.54	65.13	74.51	0.97	50.42	2758.28	
30-Jul-14	119.81	68.77	69.35	0.76	51.22	2803.38	
31-Jul-14	119.83	68.13	70.19	0.80	50.86	2879.90	
Total Source: NLD	3612.94	1939.56	2316.97	34.47	1750.55	89490.59	
Source: NLD	C				and captive power plar		

** The volume of bilateral through PXs represents the volume through term-ahead contracts.

Area Clearing Volume represents the scheduled volume of all the bid areas.

Market Segment	Day	ahead mar	ket of IEX	Day a	head marl	ket of PXIL	Under Draw	Under Drawl/Over Drawl from the Grid (U			
Date	Mini- mum ACP	Maxi- mum ACP	Weighted Average Price*	Mini- mum ACP	Maxi- mum ACP	Weighted Average Price*	Mini-mum Price	All India Grid Maxi-mum Price	Average Price**		
1-Jul-14	1.09	6.96	2.55	2.10	E 25	4.97					
2-Jul-14	1.98 1.45	6.86 16.00	3.55 3.12	2.10 2.10	5.25 5.45	4.27 3.61	0.00	6.16 5.32	1.89 1.45		
3-Jul-14	1.45	19.00	2.90	1.56	4.50	2.83	0.00	8.24	2.01		
4-Jul-14	1.30	18.00	2.90	1.30	4.00	2.63	0.00	8.24	3.77		
5-Jul-14	1.30	7.10	3.09	1.60	3.75	2.43	0.00	8.24	5.33		
6-Jul-14	1.25	7.10	3.09	1.60	4.15	2.86	0.00	8.24	2.94		
7-Jul-14	2.40	7.10	3.68	1.50	4.30	2.90	0.00	8.24	4.61		
8-Jul-14	2.47	15.01	3.98	3.00	4.90	3.64	0.00	8.24 8.24	4.72		
9-Jul-14 10-Jul-14	2.47 1.50	7.01 18.00	4.12 4.31	3.00 2.90	5.01 5.50	4.08 4.36	0.00	8.24	3.90 5.50		
11-Jul-14	2.35	14.00	4.31	2.90	5.70	4.30	0.36	8.24	3.51		
12-Jul-14	2.33	6.61	4.47	2.00	5.70	4.18	0.00	8.24	4.10		
13-Jul-14	2.00	6.60	3.50	2.00	5.50	4.35	0.00	8.24	3.02		
13-Jul-14	1.58	6.60	3.83	3.00	4.54	3.22	0.00	6.36	2.51		
15-Jul-14	1.50	6.60	3.93	2.00	5.32	3.78	0.00	6.36	2.11		
16-Jul-14	1.30	14.00	3.80	2.00	5.20	3.96	0.00	8.24	2.11		
17-Jul-14	1.30	14.00	3.96	1.00	5.43	3.90	0.00	6.16	2.14		
18-Jul-14	1.20	11.50	3.90	2.30	6.30	3.38	0.00	5.32	1.54		
19-Jul-14	1.25	6.56	2.71	3.00	3.00	3.00	0.00	5.11	1.72		
20-Jul-14	1.23	6.50	2.71	1.20	3.48	2.40	0.00	4.91	1.72		
20-Jul-14	1.24	15.50	2.30	1.20	4.00	3.01	0.00	8.24	2.43		
21-Jul-14	1.20	6.40	3.06	1.20	3.80	2.72	0.00	8.24	3.31		
22-Jul-14	1.25	6.60	3.00	1.25	5.30	3.85	0.00	7.20	2.59		
23-Jul-14	1.40	12.00	3.69	2.50	5.30	3.51	0.00	8.24	2.39		
24-Jul-14	1.20	6.50	3.46	3.00	5.70	4.01	0.00	8.24	3.77		
26-Jul-14	1.20	6.51	3.40	1.82	5.50	3.81	0.00	8.24	3.52		
27-Jul-14	1.20	6.51	3.39	2.10	5.25	3.42	0.00	5.11	1.61		
27-Jul-14 28-Jul-14	1.14	6.51	3.73	2.10	4.98	3.42	0.00	7.82	2.13		
29-Jul-14	1.49	6.50	3.53	1.40	6.00	3.53	0.00	5.95	1.70		
30-Jul-14	1.20	6.50	3.53	2.70	4.85	3.53	0.00	5.95 7.20	2.27		
31-Jul-14	1.07	6.50	2.82	1.20	4.85	3.06	0.00	8.24	2.27		
51-Jul-14	1.08	19.00#	3.50	1.20 1.00#	4.75 6.30#	3.20 3.53	0.00 0.00#	8.24 8.24#	2.72		

Table-18: PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (₹/kWh), JULY 2014 (DAY-WISE)

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

* Weighted average price computed based on Area Clearing Volume (ACV) and Area Clearing Price (ACP) for each hour of the day. Here, ACV and ACP represent the scheduled volume and weighted average price of all the bid areas of power exchanges. ** 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

Table-19: VOLUN	IE OF SHOR	T-TERM TR	ANSACTIO	NS OF ELI	ECTRICITY	(REGION		(*-WISE) (I	MUs), JUL'	Y 2014
Name of the	Thr	ough Bilate	eral	Through Power Exchange			Throug	n UI with R Grid	legional	
State/UT/Other Regional Entity	Sale	Pur- chase	Net**	Sale	Pur- chase	Net**	Export (Under Drawl)	Import (Over Drawl)	Net**	Total Net***
Punjab	0.00	1082.58	1082.58	0.00	179.02	179.02	57.56	106.31	48.75	1310.35
Haryana	89.51	1125.48	1035.97	60.56	99.03	38.47	95.65	36.30	-59.35	1015.09
Rajasthan	755.88	129.88	-626.00	7.99	355.50	347.51	70.05	61.76	-8.30	-286.79
Delhi	15.52	357.64	342.12	90.81	76.73	-14.08	85.61	20.70	-64.90	263.14
Uttar Pradesh	0.00	250.40	250.40	0.00	190.51	190.51	37.73	185.55	147.82	588.73
Uttarakhand	5.63	21.77	16.14	14.52	34.53	20.01	16.29	35.43	19.14	55.28
Himachal Pradesh	626.50	0.20	-626.30	301.62	0.68	-300.94	6.70	27.08	20.39	-906.86
J&K	312.95	3.67	-309.29	74.68	17.10	-57.57	31.86	42.90	11.04	-355.82
UT Chandigarh	0.00	10.46	10.46	0.00	8.17	8.17	1.10	29.82	28.73	47.36
MP	266.58	0.33	-266.25	14.18	62.95	48.77	54.84	34.99	-19.85	-237.34
Maharashtra	0.00	194.35	194.35	77.95	260.43	182.48	208.64	28.22	-180.42	196.41
Gujarat	304.46	16.70	-287.76	178.70	294.69	115.99	96.87	35.80	-61.07	-232.84
Chattisgarh	103.35	22.78	-80.57	115.24	22.43	-92.81	30.90	47.48	16.58	-156.80
GOA	0.00	39.21	39.21	0.00	0.00	0.00	3.16	24.67	21.50	60.72
Daman and Diu	0.00	14.28	14.28	0.00	27.38	27.38	1.51	17.26	15.74	57.41
Dadra & Nagar Haveli	0.00	28.10	28.10	0.00	0.00	0.00	9.30	7.11	-2.18	25.91
Andhra Pradesh	0.00	522.30	522.30	2.55	114.14	111.59	53.84	21.60	-32.24	601.65
Karnataka	324.40	21.02	-303.37	117.82	27.65	-90.17	38.59	33.48	-5.11	-398.65
Kerala	0.00	3.63	3.63	3.41	21.19	17.78	2.30	65.57	63.27	84.67
Tamilnadu	0.00	0.00	0.00	0.00	4.74	4.74	70.12	20.21	-49.91	-45.17
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	4.55	5.48	0.93	0.93
Goa	0.00	0.00	0.00	0.00	0.00	0.00	4.14	2.03	-2.11	-2.11
Telangana	9.19	439.24	430.05	14.02	134.20	120.18	11.02	106.11	95.10	645.32
West Bengal	225.85	208.26	-17.59	55.85	48.05	-7.81	37.58	49.45	11.87	-13.53
Orissa	35.51	123.27	87.76	3.89	30.89	27.00	22.14	53.83	31.69	146.45
Bihar	0.00	236.83	236.83	0.00	89.93	89.93	36.13	40.92	4.79	331.56
Jharkhand	18.69	129.20	110.51	0.00	0.00	0.00	26.93	15.72	-11.21	99.30
Sikkim	0.00	7.99	7.99	55.72	0.00	-55.72	5.21	1.23	-3.98	-51.71
DVC	63.77	23.99	-39.77	29.03	0.00	-29.03	24.87	39.11	14.25	-54.56
Arunachal Pradesh	0.00	0.00	0.00	7.99	0.36	-7.63	2.05	7.77	5.72	-1.91
Assam	30.03	7.52	-22.51	0.11	98.43	98.32	3.95	42.67	38.72	114.53
Manipur	0.00	0.00	0.00	4.82	0.27	-4.56	5.10	1.18	-3.92	-8.48
Meghalaya	47.04	0.00	-47.04	8.85	10.37	1.52	8.02	2.86	-5.16	-50.68
Mizoram	0.00	0.00	0.00	7.18	0.00	-7.18	1.70	2.54	0.84	-6.35
Nagaland	0.00	3.90	3.90	0.00	0.00	0.00	4.13	3.55	-0.58	3.32
Tripura	25.18	0.07	-25.11	20.52	0.61	-19.91	2.44	10.54	8.10	-36.92

NHPC Stations	0.00	0.00	0.00	0.00	0.00	0.00	41.76	6.77	-34.99	-34.99
NJPC	0.00	0.00	0.00	27.92	0.00	-27.92	1.49	0.73	-0.76	-28.68
AD HYDRO	124.91	0.00	-124.91	35.73	0.00	-35.73	1.31	2.97	1.66	-158.99
KARCHAM WANGTOO	366.09	0.00	-366.09	183.38	0.00	-183.38	6.94	3.02	-3.92	-553.39
SHREE CEMENT	136.65	0.00	-136.65	4.57	0.00	-4.57	1.85	2.52	0.67	-140.56
LANCO BUDHIL	0.00	0.00	0.00	20.90	0.00	-20.90	0.00	0.00	0.00	-20.90
MALANA	0.00	0.00	0.00	9.00	0.00	-9.00	0.00	0.00	0.00	-9.00
JINDAL POWER	202.85	0.00	-202.85	234.27	0.00	-234.27	15.68	15.20	-0.48	-437.59
LANKO_AMK	0.00	0.00	0.00	0.00	0.00	0.00	3.90	0.26	-3.64	-3.64
NSPCL	38.28	0.00	-38.28	0.00	0.00	0.00	1.95	1.58	-0.38	-38.66
ACBIL	7.98	0.00	-7.98	55.05	0.00	-55.05	4.28	4.29	0.01	-63.02
BALCO	0.00	0.00	0.00	0.54	26.63	26.09	1.75	3.82	2.07	28.16
RGPPL(Dabhol)	0.00	0.00	0.00	0.00	0.00	0.00	0.06	4.10	4.05	4.05
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	14.59	8.03	-6.56	-6.56
DCPP	0.00	0.00	0.00	46.72	0.00	-46.72	1.65	4.88	3.23	-43.49
EMCO	0.00	0.00	0.00	11.63	0.00	-11.67	0.00	0.00	0.00	-11.67
VANDANA VIDYUT	0.00	0.00	0.00	30.03	0.00	-30.03	0.00	0.00	0.00	-30.03
ESSAR STEEL	0.00	0.00	0.00	0.00	113.21	113.21	0.00	0.00	0.00	113.21
JINDAL STAGE-II	0.00	0.00	0.00	10.09	0.00	-10.09	0.00	0.00	0.00	-10.09
DB POWER	0.00	0.00	0.00	58.65	0.00	-58.65	0.00	0.00	0.00	-58.65
SIMHAPURI	193.43	0.00	-193.43	11.70	0.00	-11.70	1.31	13.71	12.40	-192.74
Meenakshi	0.00	0.99	0.99	0.00	1.62	1.62	0.00	0.00	0.00	2.61
STERLITE	172.21	0.00	-172.21	162.76	0.00	-162.76	15.80	6.99	-8.81	-343.78
MAITHON POWER LTD	77.16	0.00	-77.16	16.17	0.00	-16.17	8.58	2.69	-5.89	-99.21
ADHUNIK POWER LTD	0.00	0.00	0.00	10.08	0.00	-10.08	0.00	0.00	0.00	-10.08
CHUZACHEN HEP	0.00	0.00	0.00	31.40	0.00	-31.40	0.00	0.00	0.00	-31.40
RANGIT HEP	0.00	0.00	0.00	9.42	0.00	-9.42	0.00	0.00	0.00	-9.42
GMR KAMALANGA	0.00	0.00	0.00	25.16	0.00	-25.16	0.00	0.00	0.00	-25.16
JITPL	0.00	0.00	0.00	22.54	0.00	-22.54	0.00	0.00	0.00	-22.54
TEESTA HEP	0.00	0.00	0.00	46.70	0.00	-46.70	0.00	0.00	0.00	-46.70
NEEPCO Stations	0.00	0.00	0.00	8.92	0.00	-8.92	3.97	1.73	-2.24	-11.16
ONGC PALATANA	0.00	0.00	0.00	10.08	0.00	-10.08	0.00	0.00	0.00	-10.08
Source: NLDC										

* in case of a state, the entities which are "selling" also include generators connected to state grid and the entities which are "buying" also include open access consumers.

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

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



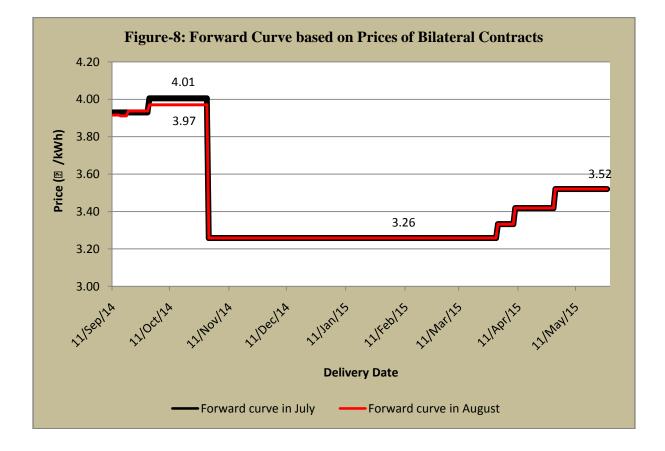


Table-20 : VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, JULY 2014

0- 11-		I	EX	PXIL			
Sr.No.	Details of REC Transactions	Solar	Non-Solar	Solar	Non Solar		
А	Volume of Buy Bid	498	13609	6135	18200		
В	Volume of Sell Bid	179581	4241244	111577	4036077		
С	Ratio of Buy Bid to Sell Bid Volume	0.003	0.003	0.055	0.005		
D	Market Clearing Volume (MWh)	498	13609	6135	18200		
E	Market Clearing Price (₹/MWh)	9300	1500	9300	1500		

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh

Note 2:

Forbearance and Floor Price w.e.f 1st April 2012

Type of REC	Floor Price (₹/MWh)	Forbearance Price (₹/MWh)
Solar	9300.00	13400.00
Non-Solar	1500.00	3300.00