Monthly Report on Short-term Transactions of Electricity in India

November, 2012



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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 Ltd
DCPP	Donga Mahua Captive Power Plant
DVC	Damodar Valley Corporation
IEX	Indian Energy Exchange Limited
JINDAL POWER	Jindal Power Limited
KARCHAM WANGTOO	Jaypee Karcham Hydro Corporation Limited
LANKO_AMK	Lanco Amarkantak Power Private Limited
LANCO BUDHIL	Lanco Budhil Hydro Power Private Limited
LANKO_KONDAPALLY	Lanco Kondapalli Power Limited
Meenakshi	Meenakshi Energy Private Limited
MP	Madhya Pradesh
MUs	Million Units
NEEPCO Stations	North Eastern Electric Power Corporation Limited. Stations
NEW Grid	North, East, North-East and Western Regional Grid
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
PX	Power Exchange
PXIL	Power Exchange India Limited
REC	Renewable Energy Certificate
RGPPL	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Despatch Centre
RTC	Round - the- Clock
SIMHAPURI	Simhapuri Energy Private Limited
SHREE CEMENT	Shree Cement Limited
SR Grid	Southern Regional Grid
STERLITE	Sterlite Energy Limited
UI	Unscheduled Interchange
UT	Union Territory

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; (ii) to analyse competition among the market players; (iii) to analyse effect of congestion on volume of electricity transacted through power exchanges; (iv) to provide information on volume and price of Renewable Energy Certificates (RECs) transacted through power exchanges; and (v) to disclose/disseminate all relevant market information. The analysis of the report for the month of November 2012 is as under:

I: Volume of Short-term Transactions of Electricity

During the month of November 2012, total electricity generation excluding generation from renewable and captive power plants in India was 72601.61MUs (Table-1).

Of the total electricity generation, 7797.48MUs (10.74%) were transacted through short-term, comprising of 4136.86MUs (5.70%) through Bilateral (through traders and term-ahead contracts on Power Exchanges and directly between distribution companies), followed by 2186.13MUs (3.01%) through day ahead collective transactions on Power Exchanges (IEX and PXIL) and 1474.50 MUs (2.03%) through UI (Table-1 & Figure-2).

Of the total short-term transactions, Bilateral constitute 53.05% (41.11% through traders and term-ahead contracts on Power Exchanges and 11.95% directly between distribution companies) followed by 28.04% through day ahead collective transactions on Power Exchanges and 18.91% 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 45 trading licensees as on 30.11.2012, of which only 19 have engaged in trading during November 2012. Top 5 trading licenses had a share of 70.61% 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. The HHI below 0.15 indicates non-concentration of market power. The HHI computed for volume of electricity traded by trading licensees (inter-state & intra-state) was 0.1318 for the month of November 2012, which indicates that there was no concentration of market power (Table-2).

The volume of electricity transacted through IEX and PXIL in the day ahead market was 2119.01MUs and 67.12MUs respectively. The volume of total Buy bids and Sale bids was 3340.80 MUs and 3219.29 MUs respectively in IEX and 274.23 MUs and 189.48 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was more demand in both IEX (1.04 times) and PXIL (1.45 times) when compared with the supply offered through these exchanges.

The volume of electricity transacted in term-ahead market through weekly contracts was 11.20 MUs in IEX (Table-6) and 4.90 MUs in PXIL (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 ₹4.43/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 ₹4.39/kWh, ₹4.35/kWh and ₹4.58/kWh respectively. Minimum and Maximum sale prices were ₹2.25/kWh and ₹8.04/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

₹0.001/kWh, ₹12.00/kWh and ₹3.62/kWh respectively in IEX and ₹0.06/kWh, ₹11.00/kWh and ₹2.89/kWh respectively in PXIL (Table-5).

The weighted average price of electricity transacted in term-ahead market through the weekly contracts was ₹2.65/kWh in IEX (Table-6) and ₹2.25/kWh in PXIL (Table-7).

(iii) *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 ₹1.87/kWh in the NEW Grid and ₹3.30/kWh in the SR Grid. Minimum and Maximum UI prices were ₹0.00/kWh and ₹8.21/kWh respectively in the New Grid, and ₹0.00/kWh and ₹10.80/kWh respectively in the SR Grid (Table-8).

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 54.34% of the volume, and these were Delhi, West Bengal, Damodar Valley Corporation, Gujarat and Karnataka. Top 5 regional entities purchased 59.17% of the volume, and these were Madhya Pradesh, Maharashtra, Andhra Pradesh, Jammu & Kashmir and Rajasthan (Table-9, 10 & 19).

Of the total Power Exchange transactions, top 5 regional entities sold 71.09% of the volume, and these were Delhi, Karnataka, Jindal Power Limited, Gujarat and Lanco Amarkantak Power Private Limited. Top 5 regional entities purchased 65.14% of the volume, and these were Gujarat, Rajasthan, Uttar Pradesh, Andhra Pradesh and Kerala (Table-11, 12 & 19).

Of the total UI transactions, top 5 regional entities underdrew 45.02% of the volume, and these were Haryana, Delhi, Uttar Pradesh, Maharashtra and Gujarat. Top 5 regional entities overdrew 32.30% of the volume, and these were Madhya Pradesh, Tamilnadu, Maharashtra, Rajasthan and Uttar Pradesh (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 & 19. Top 5 electricity selling regional entities were Delhi, Karnataka, Jindal Power Limited,

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.

West Bengal and Damodar Valley Corporation. Top 5 electricity purchasing regional entities were Madhya Pradesh, Maharashtra, Andhra Pradesh, Rajasthan and Kerala.

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 November 2012, 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 17.01% and 122.25% of the actual cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 100% on both the power exchanges.

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: 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.

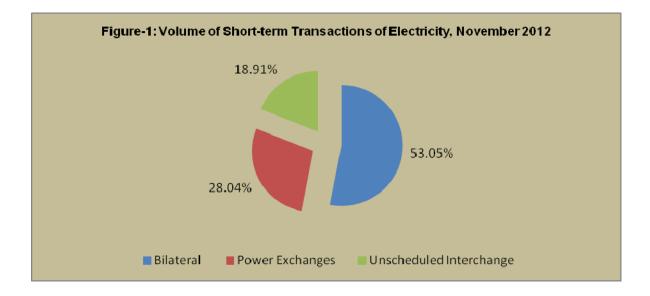
The details of REC transactions for the month of November 2012 are shown in Table-20. The market clearing volume of Solar RECs transacted on IEX and PXIL were 733 and 486 respectively and the market clearing price of these RECs was ₹12720/MWh and ₹12100/MWh respectively. Market clearing volume of Non-Solar RECs transacted on IEX and PXIL were 54976 and 77376 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

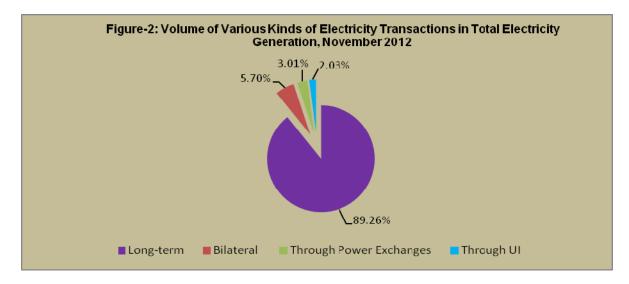
The gap between the volume of buy and sell bids of RECs placed through power exchanges shows that there was more demand for Solar RECs and less demand for Non-Solar RECs. For Solar RECs, the ratio of buy and sell bids was 1.92 and 1.20 in IEX and PXIL respectively. For Non-Solar RECs, the ratio of buy and sell bids was 0.06 and 0.25 in IEX and PXIL respectively.

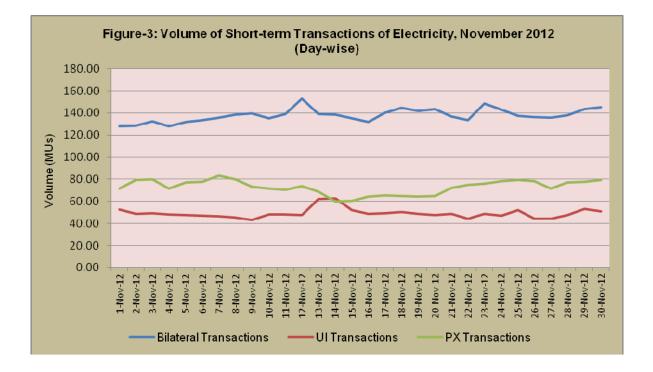
VI: Inferences:

- The percentage of short-term transactions of electricity to total electricity generation was 10.74%.
- Of the total short-term transactions of electricity, 53.05% was transacted through bilateral (through traders and term ahead contracts on power exchanges and directly by distribution companies), followed by 28.04% through Power Exchanges and 18.91% through UI.
- Top 5 trading licensees had a share of 70.61% in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for volume of electricity traded by trading licensees was 0.1318, indicating an unconcentration of market power.
- The price of electricity transacted through trading licensees (₹4.43/kWh) was higher when compared with the price of electricity transacted through IEX (₹3.62/kWh) and PXIL (₹2.89/kWh) respectively.
- The price of electricity transacted through UI was ₹1.87/kWh in the NEW Grid and ₹3.30/kWh in the SR Grid.
- The gap between the volume of sale bids and buy bids placed through power exchanges indicates that there was less demand in IEX (1:1.04) and more demand in PXIL (1:1.45) when compared with the supply offered through these exchanges.
- Top 5 electricity selling regional entities were Delhi, Karnataka, Jindal Power Limited, West Bengal and Damodar Valley Corporation. Top 5 electricity purchasing regional entities were Madhya Pradesh, Maharashtra, Andhra Pradesh, Rajasthan and Kerala.
- The volume of electricity that could not be cleared in the power exchanges due to congestion was about 17.01% and 122.25% of the actual cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 100.00% on both the power exchanges.
- The market clearing volume of Solar RECs transacted on IEX and PXIL were 733 and 486 respectively and the market clearing price of these RECs was ₹12720/MWh and ₹12100/MWh respectively. Market clearing volume of Non-Solar RECs transacted on IEX and PXIL were 54976 and 77376 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

Table-1: \	Cable-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), NOVEMBER 2012				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation	
1	Bilateral	4136.86	53.05%	5.70%	
	(i) Through Traders and PXs	3205.35	41.11%	4.41%	
	(ii) Direct	931.50	11.95%	1.28%	
2	Through Power Exchanges	2186.13	28.04%	3.01%	
	(i) IEX	2119.01	27.18%	2.92%	
	(ii) PXIL	67.12	0.86%	0.09%	
3	Through UI	1474.50	18.91%	2.03%	
	Total	7797.48	100.00%	10.74%	
	Total Generation	72601.61	_	_	
Source: N	Source: NLDC				







Т	Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, NOVEMBER 2012			
Sr.No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl- Hirschman Index	
1	PTC India Ltd.	25.596%	0.0655	
2	JSW Power Trading Company Ltd.	15.103%	0.0228	
3	Tata Power Trading Company (P) Ltd.	11.396%	0.0130	
4	Reliance Energy Trading (P) Ltd	9.524%	0.0091	
5	NTPC Vidyut Vyapar Nigam Ltd.	8.992%	0.0081	
6	National Energy Trading & Services Ltd.	8.297%	0.0069	
7	Knowledge Infrastructure Systems (P) Ltd	5.354%	0.0029	
8	Adani Enterprises Ltd.	4.071%	0.0017	
9	Mittal Processors (P) Ltd.	2.667%	0.0007	
10	Essar Electric Power Development Corp. Ltd.	2.117%	0.0004	
11	Shree Cement Ltd.	1.725%	0.0003	
12	GMR Energy Trading Ltd.	1.115%	0.0001	
13	Instinct Infra & Power Ltd.	1.054%	0.0001	
14	Jaiprakash Associates Ltd.	0.878%	0.0001	
15	RPG Power Trading Company Ltd.	0.873%	0.0001	
16	Manikaran Power Ltd.	0.785%	0.0001	
17	Arunachal Pradesh Power Corporation Pvt. Ltd.	0.360%	0.0000	
18	Customized Energy Solutions India Pvt. Ltd.	0.048%	0.0000	
19	Pune Power Development Pvt. Ltd.	0.046%	0.0000	
TOTAL		100.00%	0.1318	
	Top 5 trading licensees70.61%			
Note1: Volume of electricity transacted by the trading licensees includes bilateral transactions				

Note1: Volume of electricity transacted by the trading licensees includes bilateral transactions (inter-state and intra-state) and the transactions undertaken through power exchanges. Note2: Volume of electricity transacted by Global Energy Ltd is not included. Source: Information submitted by trading licensees

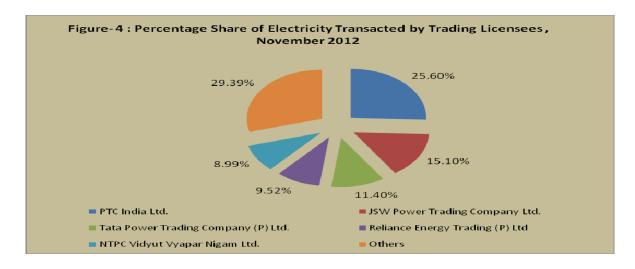


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, NOVEMBER 2012				
Sr.No	Sr.No Sale Price of Traders (₹/kWh)			
1	Minimum	2.25		
2	Maximum 8.04			
3	3 Weighted Average 4.43			
Courses Information submitted by trading licensees				

Source: Information submitted by trading licensees

Table-4	Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), NOVEMBER 2012		
Sr.No	Sr.No Period of Trade Sale Price of Traders (₹/kWh)		
1	RTC	4.39	
2	PEAK	4.35	
3	3 OFF PEAK 4.58		

Source: Information submitted by trading licensees

Table-	Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, NOVEMBER 2012			
Sr.No	ACP Price in IEX (₹/kWh) Price in PXIL (₹/kWh)			
1	Minimum	0.00	0.60	
2	Maximum	12.00	11.00	
3	Weighted Average	3.62	2.89	
Ocurrent Information automittad bullEV and DVII				

Source: Information submitted by IEX and PXIL

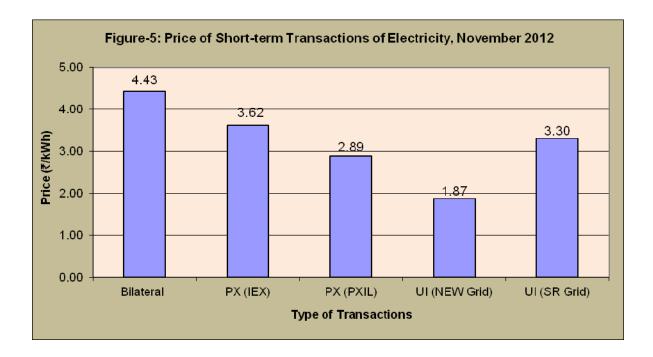
Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, NOVEMBER 2012			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	3.94	4.21
2	Day-ahead Contingency Contracts	1.09	3.20
3	Daily Contracts	8.31	3.92
4	Weekly Contracts	11.20	2.65
	Total	24.54	3.35
Source: IEX			

Source: IEX

Table-7	Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, NOVEMBER 2012				
Sr.No	Sr.NoTerm ahead contractsActual Scheduled Volume (MUs)Weighted Average Price (₹/kWh)				
1	Intra-Day Contracts	3.90	4.16		
2	Weekly Contracts	4.90	2.25		
	Total 8.80 3.10				
Courses					

Source: PXIL

	Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH UI, NOVEMBER 2012				
Sr.NoPrice in NEW Grid (₹/kWh)Price in SR Grid (₹/kWh)					
1	Minimum	0.00	0.00		
2	Maximum	8.21	10.80		
3	3 Average 1.87 3.30				
Source: NLDC					



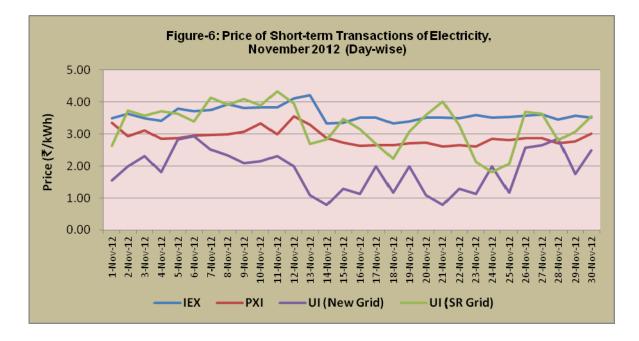


Table-9: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL, NOVEMBER 2012			
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume	
Delhi	660.90	17.05%	
West Bengal	457.36	11.80%	
DVC	358.22	9.24%	
Gujarat	353.75	9.13%	
Karnataka	275.76	7.12%	
Punjab	256.66	6.62%	
STERLITE	175.02	4.52%	
Chattisgarh	164.69	4.25%	
JINDAL POWER	160.69	4.15%	
Rajasthan	146.36	3.78%	
SHREE CEMENT	146.36	3.78%	
Uttar Pradesh	133.79	3.45%	
KARCHAM WANGTOO	104.65	2.70%	
Orissa	76.94	1.99%	
Himachal Pradesh	73.98	1.91%	
Haryana	72.36	1.87%	
SIMHAPURI	69.04	1.78%	
LANKO_KONDAPALLY	41.44	1.07%	
Jharkhand	28.22	0.73%	
MAITHON POWER LTD	25.46	0.66%	
Andhra Pradesh	24.45	0.63%	
LANKO_AMK	23.70	0.61%	
AD HYDRO	17.26	0.45%	
J&K	15.31	0.40%	
UT Chandigarh	7.20	0.19%	
MP	2.46	0.06%	
Maharashtra	2.40	0.06%	
Tripura	0.82	0.02%	
Uttarakhand	0.25	0.01%	
Total	3875.50	100.00%	
Volume of sale by top 5 States	2105.98	54.34%	

Table-10: VOLUME OF ELECTRICITY PURCHASE THROUGH BILATERAL, NOVEMBER 2012					
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume			
MP	627.35	16.56%			
Maharashtra	544.01	14.36%			
Andhra Pradesh	481.51	12.71%			
J&K	306.84	8.10%			
Rajasthan	281.87	7.44%			
Uttarakhand	242.20	6.39%			
Bihar	210.30	5.55%			
Kerala	190.99	5.04%			
West Bengal	175.25	4.63%			
Tamilnadu	158.55	4.18%			
Himachal Pradesh	155.99	4.12%			
Jharkhand	100.98	2.67%			
Uttar Pradesh	59.15	1.56%			
DVC	54.51	1.44%			
Dadra & Nagar Haveli	47.04	1.24%			
Haryana	38.45	1.01%			
Assam	37.54	0.99%			
Delhi	33.58	0.89%			
Meghalaya	13.66	0.36%			
Punjab	13.54	0.36%			
Goa	9.60	0.25%			
Sikkim	2.73	0.07%			
Gujarat	2.05	0.05%			
Meenakshi	0.95	0.03%			
Total	3788.65	100.00%			
Volume of sale by top 5 States	2241.58	59.17%			

Table-11: VOLUME OF ELECTRICITY SALE THROUGH POWER EXCHANGES, NOVEMBER 2012					
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume			
Delhi	478.11	21.87%			
Karnataka	373.97	17.11%			
JINDAL POWER	271.77	12.43%			
Gujarat	267.55	12.24%			
LANKO_AMK	162.75	7.44%			
West Bengal	78.56	3.59%			
Andhra Pradesh	70.45	3.22%			
DCPP	47.89	2.19%			
NHPC Stations	43.19	1.98%			
Maharashtra	42.49	1.94%			
KARCHAM WANGTOO	41.42	1.89%			
Chattisgarh	39.73	1.82%			
Punjab	31.43	1.44%			
STERLITE	26.65	1.22%			
Uttar Pradesh	24.67	1.13%			
Orissa	23.36	1.07%			
MP	21.95	1.00%			
J&K	21.94	1.00%			
NEEPCO Stations	20.18	0.92%			
DVC	19.97	0.91%			
SHREE CEMENT	18.44	0.84%			
Himachal Pradesh	11.80	0.54%			
Rajasthan	11.16	0.51%			
ACBIL	10.87	0.50%			
Sikkim	10.83	0.50%			
Uttarakhand	6.67	0.31%			
UT Chandigarh	3.39	0.15%			
LANCO BUDHIL	1.52	0.07%			
Mizoram	1.31	0.06%			
SIMHAPURI	0.66	0.03%			
Meghalaya	0.59	0.03%			
AD HYDRO	0.30	0.01%			
MAITHON POWER LTD	0.28	0.01%			
BALCO	0.24	0.01%			
Assam	0.02	0.00%			
Total	2186.13	100.00%			
Volume of sale by top 5 States	1554.15	71.09%			

Table-12: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGES, NOVEMBER 2012					
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume			
Gujarat	419.34	19.18%			
Rajasthan	399.41	18.27%			
Uttar Pradesh	241.08	11.03%			
Andhra Pradesh	188.46	8.62%			
Kerala	175.66	8.04%			
Tamilnadu	141.82	6.49%			
Punjab	126.39	5.78%			
Haryana	124.53	5.70%			
Maharashtra	117.79	5.39%			
MP	98.64	4.51%			
West Bengal	48.19	2.20%			
Assam	36.91	1.69%			
Uttarakhand	32.56	1.49%			
Himachal Pradesh	16.02	0.73%			
Arunachal Pradesh	6.22	0.28%			
J&K	3.84	0.18%			
Meghalaya	3.51	0.16%			
Chattisgarh	2.64	0.12%			
Karnataka	1.72	0.08%			
Goa	0.75	0.03%			
UT Chandigarh	0.49	0.02%			
Delhi	0.14	0.01%			
Total	2186.13	100.00%			
Volume of purchase by top 5 States	1423.94	65.14%			

Table-12: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGES

Table-13: VOLUME OF ELECTRIC	ITY EXPORT THROUGH UI, NOVEMBER 2012				
Name of the State/UT/Other Regional	Volume of Export (MUs)	% of Volume			
Entity					
Haryana	202.98	16.67%			
Delhi	101.54	8.34%			
Uttar Pradesh	93.18	7.65%			
Maharashtra	81.32	6.68%			
Gujarat	69.11	5.68%			
Chattisgarh	60.06	4.93%			
Rajasthan	58.64	4.82%			
NHPC Stations	48.74	4.00%			
LANKO_AMK	40.38	3.32%			
Karnataka	34.88	2.87%			
Punjab	34.53	2.84%			
Andhra Pradesh	31.64	2.60%			
JINDAL POWER	30.12	2.47%			
Orissa	28.88	2.37%			
J&K	27.51	2.26%			
Pondicherry	23.83	1.96%			
West Bengal	20.29	1.67%			
Dadra & Nagar Haveli	19.40	1.59%			
Jharkhand	17.79	1.46%			
Goa	15.30	1.26%			
MP	14.48	1.19%			
STERLITE	13.65	1.12%			
Tamilnadu	13.50	1.12%			
Bihar	13.37	1.10%			
Daman and Diu	10.73	0.88%			
Assam DVC	10.29 9.60	0.85%			
NJPC	9.00	0.79% 0.75%			
	8.72	0.75%			
Uttarakhand					
	7.75	0.64%			
MAITHON POWER LTD	6.20	0.51%			
Sikkim	5.68	0.47%			
DCPP	5.63	0.46%			
BALCO	5.56	0.46%			
NEEPCO Stations	5.11	0.42%			
Manipur	5.07	0.42%			
ACBIL	4.59	0.38%			
UT Chandigarh	4.20	0.35%			
Himachal Pradesh	3.89	0.32%			
KARCHAM WANGTOO	3.13	0.26%			
CGPL	2.88	0.24%			
NSPCL	1.96	0.16%			
SHREE CEMENT	1.87	0.15%			
Arunachal Pradesh	1.67	0.14%			
RGPPL(Dabhol)	1.61	0.13%			
Kerala	1.47	0.12%			
Mizoram	1.17	0.10%			
Nagaland	1.02	0.08%			
Meghalaya	0.98	0.08%			
SIMHAPURI	0.94	0.08%			
AD HYDRO	0.94	0.08%			
LANKO_KONDAPALLY	0.64	0.05%			
Total	1217.48	100.00%			
Volume of Export by top 5 States	548.13	45.02%			
volume of Export by top 5 States	540.13	43.02 /0			

Table-14: VOLUME OF ELECTRIC	CITY IMPORT THROUGH UI, NO	VEMBER 2012	
Name of the State/UT/Other Regional	Volume of Import (MUs)	% of Volume	
Entity	, ,		
MP	132.68	10.59%	
Tamilnadu	77.91	6.22%	
Maharashtra	68.71	5.49%	
Rajasthan	67.84	5.42%	
Uttar Pradesh	57.32	4.58%	
DVC	56.20	4.49%	
Kerala	55.82	4.46%	
Himachal Pradesh	54.15	4.32%	
Punjab	50.35	4.02%	
J&K	50.06	4.00%	
West Bengal	48.43	3.87%	
Orissa	47.79	3.82%	
NHPC Stations	47.21	3.77%	
Uttarakhand	45.02	3.59%	
Gujarat	44.46	3.55%	
Andhra Pradesh	36.65	2.93%	
CGPL	31.97	2.55%	
Karnataka	27.11	2.16%	
STERLITE	25.16	2.01%	
Chattisgarh	24.08	1.92%	
MAITHON POWER LTD	19.92	1.59%	
Bihar	19.63	1.57%	
Meghalaya	16.19	1.29%	
Assam	15.85	1.27%	
Jharkhand	14.76	1.18%	
RGPPL(Dabhol)	11.16	0.89%	
Goa	8.25	0.66%	
Arunachal Pradesh	8.08	0.65%	
Nagaland	7.08	0.57%	
NJPC	6.99	0.56%	
DCPP	6.71	0.54%	
UT Chandigarh	6.53	0.52%	
JINDAL POWER	5.84	0.47%	
Manipur	5.71	0.46%	
Dadra & Nagar Haveli	5.63	0.45%	
SIMHAPURI	5.36	0.43%	
Haryana	4.88	0.39%	
Delhi	4.85	0.39%	
Mizoram	4.05	0.32%	
KARCHAM WANGTOO	3.62	0.29%	
NEEPCO Stations	3.62	0.29%	
SHREE CEMENT	3.15	0.25%	
Daman and Diu	2.64	0.25%	
LANKO KONDAPALLY	2.58	0.21%	
ACBIL	2.58		
		0.19%	
	2.05	0.16%	
Tripura	2.01	0.16%	
NSPCL	1.48	0.12%	
Sikkim	1.04	0.08%	
AD HYDRO	0.70	0.06%	
Pondicherry	0.56	0.04%	
BALCO	0.18	0.01%	
Total	1252.35	100.00%	
Volume of Export by top 5 States	404.46	32.30%	

Sr.No.	Name of the State/UT/Other Regional Entity	Total volume of net short-term transactions of electricity*
1	MP	819.78
2	Maharashtra	604.31
3	Andhra Pradesh	580.08
4	Rajasthan	532.97
5	Kerala	421.00
6	Tamilnadu	364.78
7 8	Uttarakhand J & K	<u> </u>
9	Bihar	295.56
10	Himachal Pradesh	136.49
11	Uttar Pradesh	105.90
12	Assam	80.00
13	Jharkhand	69.73
14	Dadra & Nagar Haveli	33.27
15	Meghalaya	31.78
16	CGPL	29.09
17	Arunachal Pradesh	12.64
18	RGPPL(Dabhol)	9.56
19	Nagaland	6.05
20	Goa	3.30
21	Mizoram	1.56
22	Meenakshi	0.95
23	Manipur	0.65
24	NSPCL	-0.47
25	LANCO BUDHIL	-1.52 -2.10
26 27	NJPC BALCO	-2.10
27	Tripura	-5.61
20	UT Chandigarh	-0.37
30	Daman and Diu	-8.09
31	MAITHON POWER LTD	-12.02
32	Sikkim	-12.75
33	ACBIL	-13.10
34	AD HYDRO	-17.79
35	NEEPCO Stations	-21.67
36	Pondicherry	-23.28
37	LANKO_KÓNDAPALLY	-39.50
38	NHPC Stations	-44.73
39	DCPP	-46.80
40	SIMHAPURI	-65.27
41	Orissa	-81.39
42	Haryana	-107.48
43	Punjab	-132.34
44	KARCHAM WANGTOO	-145.58
45	SHREE CEMENT	-163.52
46	STERLITE	-190.16
47	LANKO_AMK	-223.39 -224.57
48 49	Gujarat Chattisgarh	-224.57 -237.76
<u>49</u> 50	DVC	-237.76
50	West Bengal	-277.09 -284.35
52	JINDAL POWER	-264.35 -456.73
53	Karnataka	-430.73
54	Delhi	-1201.98
Total volu	I being Ime of net short-term transactions of electricity inclu ateral, power exchange and UI	

	Table-16: DETAILS OF CONGESTION IN POWER EXCHANGES, NOVEMBER 2012						
	Details of Congestion	IEX	PXIL				
A	Unconstrained Cleared Volume* (MUs)	2479.54	149.17				
В	Actual Cleared Volume and hence scheduled (MUs)	2119.01	67.12				
С	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B)	360.54	82.05				
D	Volume of electricity that could not be cleared as % to Actual Cleared Volume	17.01%	122.25%				
E	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	100.00%	100.00%				
F	Congestion occurrence (%) time block wise						
	0.00 - 6.00 hours	25.00%	25.00%				
	6.00 - 12.00 hours	25.00%	25.00%				
	12.00 - 18.00 hours	25.00%	25.00%				
	18.00 - 24.00 hours 25.00% 25.00%						
	power would have been scheduled had there been no congest	ion.					
Source	e: IEX & PXIL						

Table-17:							
Date	Bilate	eral	(Area (Volume	Exchange Clearing # of day market)	Unscheduled Interchange (Over	Total Electricity Generation (MUs) as given at CEA	
	Through Traders and PXs**	Direct	IEX	ΡΧΙ	Drawl+Under Generation)	Website*	
1-Nov-12	97.09	30.61	70.90	0.79	52.64	2350	
2-Nov-12	99.25	29.35	78.42	0.75	48.53	2382	
3-Nov-12	103.66	28.80	78.54	1.62	49.47	2382	
4-Nov-12	100.35	27.84	69.97	1.77	48.18	2361	
5-Nov-12	102.27	29.53	75.45	1.43	47.68	2433	
6-Nov-12	103.01	30.68	76.17	1.60	47.19	2448	
7-Nov-12	105.44	30.45	80.42	3.13	46.36	2472	
8-Nov-12	106.54	31.76	76.82	2.99	45.25	2465	
9-Nov-12	108.83	30.86	70.55	2.88	43.16	2480	
10-Nov-12	103.59	31.51	69.49	1.95	47.91	2470	
11-Nov-12	106.00	33.33	68.21	2.22	48.36	2447	
12-Nov-12	112.53	40.35	71.40	2.18	47.72	2420	
13-Nov-12	110.41	28.59	66.39	2.42	61.92	2394	
14-Nov-12	110.00	28.58	57.68	2.46	62.69	2348	
15-Nov-12	106.86	28.38	58.25	2.19	52.11	2338	
16-Nov-12	102.59	29.17	61.92	2.42	48.59	2390	
17-Nov-12	103.23	36.97	62.72	2.45	49.08	2396	
18-Nov-12	111.73	32.90	62.07	2.60	50.33	2359	
19-Nov-12	110.12	31.54	61.83	2.46	48.57	2422	
20-Nov-12	109.97	33.73	62.81	1.80	47.42	2432	
21-Nov-12	104.47	32.47	70.20	1.81	48.74	2322	
22-Nov-12	101.29	32.47	72.59	2.24	44.46	2454	
23-Nov-12	114.50	34.32	73.93	2.02	48.76	2462	
24-Nov-12	110.19	33.03	76.04	2.07	47.21	2477	
25-Nov-12	110.01	27.59	76.32	3.01	52.29	2415	
26-Nov-12	106.35	29.71	74.88	3.24	44.17	2453	
27-Nov-12	106.58	28.88	68.79	2.77	44.17	2464	
28-Nov-12	110.75	27.31	73.85	3.34	47.36	2473	
29-Nov-12	113.21	30.38	75.28	2.26	53.23	2460	
30-Nov-12	114.53	30.42	77.13	2.23	50.96	2432	
Total	3205.35	931.50	2119.01	67.12	1474.50	72601.61	
Source: NLDO							
	-	-			vables and captive pov	ver plants.	
** 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.

Table-18: PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (₹/kWh), NOVEMBER 2012 (DAY-WISE)												
Market Segment	Day al	head marl	ket of IEX	Day al		cet of PXIL		Under Dr	awl/Over Dr	rawl from	the Grid	(UI)
	Mini-	Maxi-	Weighted	Mini-	Maxi-	Weighted		NEW Gr	id		SR Grid	b
Date	mum ACP	mum ACP	Average Price*	mum ACP	mum ACP	Average Price*	Mini- mum Price	Maxi- mum Price	Average Price**	Mini- mum Price	Maxi- mum Price	Average Price**
1-Nov-12	0.21	8.15	3.50	1.50	10.50	3.35	0.00	5.06	1.56	0.00	7.37	2.64
2-Nov-12	0.86	9.10	3.63	1.50	4.25	2.93	0.00	4.78	2.00	0.00	7.93	3.74
3-Nov-12	0.80	11.50	3.49	1.30	4.35	3.12	0.00	7.93	2.31	0.00	7.93	3.58
4-Nov-12	0.71	9.10	3.41	1.50	10.50	2.85	0.00	5.63	1.81	0.17	8.49	3.71
5-Nov-12	0.69	9.10	3.79	1.50	10.50	2.87	0.33	7.09	2.84	0.66	5.91	3.64
6-Nov-12	0.69	9.10	3.71	1.40	4.88	2.95	0.50	7.65	2.93	0.00	5.91	3.39
7-Nov-12	0.73	9.10	3.76	1.40	11.00	2.97	0.00	7.93	2.52	0.33	7.93	4.13
8-Nov-12	0.73	9.10	3.94	1.40	10.50	2.99	0.33	5.91	2.34	0.50	5.91	3.91
9-Nov-12	0.72	9.10	3.83	1.35	10.50	3.07	0.00	5.63	2.09	0.00	7.65	4.10
10-Nov-12	0.40	9.15	3.85	1.30	5.20	3.33	0.00	5.63	2.15	0.66	7.09	3.91
11-Nov-12	0.08	9.10	3.83	1.55	5.20	2.99	0.00	5.63	2.31	0.50	10.80	4.33
12-Nov-12	0.84	9.20	4.12	1.25	5.20	3.55	0.00	5.63	1.99	0.99	5.91	3.96
13-Nov-12	0.72	9.20	4.22	1.20	6.50	3.29	0.00	5.06	1.08	0.00	5.63	2.69
14-Nov-12	0.001	9.20	3.34	1.00	5.20	2.88	0.00	3.08	0.78	0.00	5.91	2.83
15-Nov-12	0.002	9.50	3.35	1.20	5.05	2.73	0.00	3.36	1.30	0.17	5.63	3.47
16-Nov-12	0.002	9.20	3.51	1.50	5.20	2.64	0.00	3.36	1.12	0.00	5.63	3.15
17-Nov-12	0.001	9.20	3.52	1.00	4.01	2.66	0.00	5.06	1.99	0.00	5.91	2.69
18-Nov-12	0.001	9.20	3.34	1.00	5.20	2.66	0.00	4.78	1.18	0.00	5.06	2.24
19-Nov-12	0.79	9.20	3.39	0.90	5.20	2.71	0.00	5.63	1.99	0.17	5.91	3.08
20-Nov-12	0.79	9.20	3.51	1.00	5.20	2.73	0.00	5.06	1.08	0.00	7.09	3.60
21-Nov-12	0.002	9.20	3.51	0.70	4.00	2.62	0.00	3.08	0.78	1.49	7.09	4.01
22-Nov-12	0.90	9.20	3.50	0.60	5.20	2.65	0.00	3.36	1.30	0.00	5.91	3.28
23-Nov-12	0.85	9.20	3.59	2.18	4.00	2.61	0.00	3.36	1.12	0.00	7.65	2.13
24-Nov-12	0.83	9.20	3.51	2.25	4.00	2.86	0.00	5.06	1.99	0.00	4.78	1.81
25-Nov-12	0.83	9.20	3.54	2.38	4.00	2.82	0.00	4.78	1.18	0.00	5.06	2.07
26-Nov-12	1.20	9.20	3.58	2.38	4.00	2.88	0.00	5.91	2.57	0.50	5.91	3.70
27-Nov-12	0.90	9.20	3.62	2.25	4.00	2.87	0.00	7.37	2.65	0.33	5.91	3.63
28-Nov-12	0.90	9.20	3.45	2.10	4.00	2.72	0.00	8.21	2.85	0.00	7.37	2.81
29-Nov-12	1.00	9.20	3.58	2.10	4.00	2.78	0.00	4.78	1.74	0.00	9.06	3.08
30-Nov-12	1.00	12.00	3.52	2.20	4.00	3.01	0.00	7.65	2.48	0.33	5.63	3.55
	0.001#	12.00#	3.62	0.60#	11.00#	2.89	0.00#	8.21#	1.87	0.00#	10.80#	3.30
Source: Data of		PX transa	ctions from IE	EX and P			e from NL	DC.				
* Weighted ave ACV and ACP											of the day	/. Here,
** Simple aver # Maximum/N	• •			of 15 minu	utes each	in a day. Ul p	rice inclue	des Ceilin	g UI Rate +4	40% addit	ional UI cł	narge.

Table-19: VOLUME OF	SHORT-T	ERM TRA	NSACTION	NS OF ELE	ECTRICITY	(REGION				MBER 2012
Name of the	Thre	ough Bilat	teral	Through	n Power E	xchange	Throug	h UI with R	legional	
Name of the State/UT/Other Regional Entity	Sale	Pur- chase	Net**	Sale	Pur- chase	Net**	Export (Under Drawl)	Grid Import (Over Drawl)	Net**	Total Net***
Punjab	256.66	13.54	-243.11	31.43	126.39	94.96	34.53	50.35	15.82	-132.34
Haryana	72.36	38.45	-33.91	0.00	124.53	124.53	202.98	4.88	-198.10	-107.48
Rajasthan	146.36	281.87	135.52	11.16	399.41	388.24	58.64	67.84	9.20	532.97
Delhi	660.90	33.58	-627.33	478.11	0.14	-477.97	101.54	4.85	-96.69	-1201.98
Uttar Pradesh	133.79	59.15	-74.64	24.67	241.08	216.41	93.18	57.32	-35.87	105.90
Uttarakhand	0.25	242.20	241.95	6.67	32.56	25.89	8.72	45.02	36.29	304.13
Himachal Pradesh	73.98	155.99	82.01	11.80	16.02	4.22	3.89	54.15	50.26	136.49
J&K	15.31	306.84	291.53	21.94	3.84	-18.10	27.51	50.06	22.55	295.98
UT Chandigarh	7.20	0.00	-7.20	3.39	0.49	-2.89	4.20	6.53	2.33	-7.77
MP	2.46	627.35	624.89	21.95	98.64	76.69	14.48	132.68	118.20	819.78
Maharashtra	2.40	544.01	541.61	42.49	117.79 419.34	75.30	81.32	68.71	-12.60	604.31
Gujarat	353.75 164.69	2.05	-351.71 -164.69	267.55	2.64	151.78 -37.09	69.11 60.06	44.46	-24.65 -35.98	-224.57 -237.76
Chattisgarh Daman and Diu	0.00	0.00	0.00	39.73 0.00	0.00	-37.09	10.73	24.08	-35.98	-237.76
Dadra & Nagar Haveli	0.00	47.04	47.04	0.00	0.00	0.00	19.40	5.63	-0.09	33.27
Andhra Pradesh	24.45	481.51	457.06	70.45	188.46	118.01	31.64	36.65	5.01	580.08
Karnataka	275.76	0.00	-275.76	373.97	1.72	-372.25	34.88	27.11	-7.78	-655.78
Kerala	0.00	190.99	190.99	0.00	175.66	175.66	1.47	55.82	54.34	421.00
Tamilnadu	0.00	158.55	158.55	0.00	141.82	141.82	13.50	77.91	64.41	364.78
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	23.83	0.56	-23.28	-23.28
Goa	0.00	9.60	9.60	0.00	0.75	0.75	15.30	8.25	-7.05	3.30
West Bengal	457.36	175.25	-282.11	78.56	48.19	-30.38	20.29	48.43	28.14	-284.35
Orissa	76.94	0.00	-76.94	23.36	0.00	-23.36	28.88	47.79	18.91	-81.39
Bihar	0.00	210.30	210.30	0.00	0.00	0.00	13.37	19.63	6.26	216.56
Jharkhand	28.22	100.98	72.76	0.00	0.00	0.00	17.79	14.76	-3.03	69.73
Sikkim	0.00	2.73	2.73	10.83	0.00	-10.83	5.68	1.04	-4.64	-12.75
DVC	358.22	54.51	-303.71	19.97	0.00	-19.97	9.60	56.20	46.60	-277.09
Arunachal Pradesh	0.00	0.00	0.00	0.00	6.22	6.22	1.67	8.08	6.42	12.64
Assam Manipur	0.00	37.54 0.00	37.54 0.00	0.02	36.91 0.00	36.89 0.00	10.29 5.07	<u>15.85</u> 5.71	5.56 0.65	80.00 0.65
Meghalaya	0.00	13.66	13.66	0.00	3.51	2.92	0.98	16.19	15.21	31.78
Mizoram	0.00	0.00	0.00	1.31	0.00	-1.31	1.17	4.05	2.87	1.56
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	1.02	7.08	6.05	6.05
Tripura	0.82	0.00	-0.82	0.00	0.00	0.00	7.75	2.01	-5.74	-6.57
NHPC Stations	0.00	0.00	0.00	43.19	0.00	-43.19	48.74	47.21	-1.53	-44.73
NJPC	0.00	0.00	0.00	0.00	0.00	0.00	9.09	6.99	-2.10	-2.10
AD HYDRO	17.26	0.00	-17.26	0.30	0.00	-0.30	0.94	0.70	-0.23	-17.79
KARCHAM WANGTOO	104.65	0.00	-104.65	41.42	0.00	-41.42	3.13	3.62	0.49	-145.58
SHREE CEMENT	146.36	0.00	-146.36	18.44	0.00	-18.44	1.87	3.15	1.28	-163.52
LANCO BUDHIL	0.00	0.00	0.00	1.52	0.00	-1.52	0.00	0.00	0.00	-1.52
JINDAL POWER	160.69	0.00	-160.69	271.77	0.00	-271.77	30.12	5.84	-24.27	-456.73
LANKO_AMK	23.70	0.00	-22.31	162.75	0.00	-162.75	40.38	2.05	-38.33	-223.39
NSPCL	0.00	0.00	0.00	0.00	0.00	0.00	1.96	1.48	-0.47	-0.47
ACBIL	0.00	0.00	0.00	10.87	0.00	-10.87	4.59	2.36	-2.23	-13.10
BALCO	0.00	0.00	0.00	0.24	0.00	-0.24	5.56	0.18	-5.38	-5.61
RGPPL(Dabhol) CGPL	0.00	0.00	0.00	0.00	0.00	0.00	1.61	11.16	9.56	9.56
DCPP	0.00	0.00	0.00	0.00 47.89	0.00	0.00	2.88 5.63	<u>31.97</u> 6.71	29.09 1.08	29.09 -46.80
LANKO_KONDAPALLY	41.44	0.00	-41.44	0.00	0.00	0.00	0.64	2.58	1.94	-40.80
SIMHAPURI	69.04	0.00	-69.04	0.66	0.00	-0.66	0.94	5.36	4.42	-65.27
Meenakshi	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.95
STERLITE	175.02	0.00	-175.02	26.65	0.00	-26.65	13.65	25.16	11.51	-190.16
MAITHON POWER LTD	25.46	0.00	-25.46	0.28	0.00	-0.28	6.20	19.92	13.72	-12.02
NEEPCO Stations	0.00	0.00	0.00	20.18	0.00	-20.18	5.11	3.62	-1.49	-21.67
Source: NLDC										
* in case of a state, the ent		are "sellin	g" also incl	lude gener	ators conn	ected to sta	ate grid and	the entities	s which are	"buying" also
include open access consu										
**() indicator calo and (1)	Indiantan	aurahaaa								

** (-) 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, NOVEMBER 2012

			· · · · · · · · · · · · · · · · · · ·			
		IE	EX	PXIL		
Sr.No.	Details of REC Transactions	Solar	Non- Solar	Solar	Non- Solar	
А	Volume of Buy Bid	1458	54976	1120	77376	
В	Volume of Sell Bid	758	921376	930	308685	
С	Ratio of Buy Bid to Sell Bid Volume	1.92	0.06	1.20	0.25	
D	Market Clearing Volume (MWh)	733	54976	486	77376	
E	Market Clearing Price (₹/MWh)	12720	1500	12100	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