

Monthly Report on Short-term Transactions of Electricity in India

November, 2015



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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 Aluminum Company Limited
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPL	Coastal Gujarat Power Limited
CHUZACHEN HEP	Chuzachen Hydro electric power project
COASTGEN	Coastal Energen Private Limited
DAGACHU	Dagachhu Hydro Power Corporation
DB POWER	Diligent Power Pvt. Ltd.
DCPP	Donga Mahua Captive Power Plant
DGEN MEGA POWER	DGEN Mega Power Project
DHARIWAL POWER	Dhariwal Power Station
DSM	Deviation Settlement Mechanism
DVC	Damodar Valley Corporation
EMCO	EMCO Energy Limited
ESSAR POWER	Essar Power Limited
ESSAR STEEL	Essar Steel Ltd
GMR CHHATTISGARH	GMR Chhattisgarh Energy Limited
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
IEX	Indian Energy Exchange Limited
J&K	Jammu & Kashmir
JAYPEE NIGRIE	Jaypee Nigrie Super Thermal Power Project
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
KORBA WEST POWER	Korba West Power Company Limited
KSK MAHANADI	KSK Mahanadi Power Ltd
LANKO BUDHIL	Lanco Budhil Hydro Power Private Limited
LANKO AMK	Lanco Amarkantak Power Private Limited
LANKO KONDAPALLY	Lanco Kondapally Power Private Limited
LOKTAK	Loktak Power Project
MALANA	Malana Hydroelectric Plant
MB POWER	MB Power Ltd
MEENAKSHI	Meenakshi Energy Private Limited

MP	Madhya Pradesh
MUs	Million Units
NHPC STATIONS	National Hydro Electric Power Corporation Ltd. Stations
NTPC STATIONS	National Thermal Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLDC	National Load Despatch Centre
NSPCL	NTPC - SAIL Power Company Private Limited
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
SPECTRUM	Spectrum Power Generation Ltd
STERLITE	Sterlite Energy Limited
TEESTA HEP	Teesta Hydro Electric Power Project
THERMAL POWERTECH	Thermal Powertech Corporation India Limited
URI2	URI2 Hydro Power Project
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 Deviation Settlement Mechanism (DSM). 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 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 details of the report for the month of **November, 2015** are as under:

I: Volume of Short-term Transactions of Electricity

During November 2015, total electricity generation excluding generation from renewable and captive power plants in India was 85327.13 MUs (Table-1).

Of the total electricity generation, 9084.70 (10.65%) was transacted through shortterm, comprising of 4709.77 MUs (5.52%) through bilateral (through traders and term-ahead contracts on power exchanges and directly between distribution companies), followed by 2727.99 MUs (3.20%) through day ahead collective transactions on power exchanges (IEX and PXIL) and 1646.95 MUs (1.93%) through DSM (Table-1 & Figure-2).

Of the total short-term transactions, bilateral constitutes 51.84% (27.68% through traders and term-ahead contracts on power exchanges and 24.16% directly between distribution companies) followed by 30.03% through day ahead collective transactions on power exchanges and 18.13% through DSM (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 the trading licensees is provided in Table-2 & Figure-4. The volume of electricity transacted by the trading licensees includes bilateral transactions and the transactions undertaken through power exchanges. There were 44 trading licensees as on November, 2015. In November 2015, 20 trading licensees were engaged in short term trading. Top 5 trading licensees had a share of 75.33% in the total volume traded by all the licensees. These are PTC India Ltd., Tata Power Trading Company (P) Ltd., Mittal Processors (P) Ltd., JSW Power Trading Company Ltd., and Manikaran Power Ltd.

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 concentration, and vice versa. The HHI below 0.15 indicates non-concentration, HHI between 0.15 to 0.25 indicates moderate concentration and HHI above 0.25 indicates high concentration. The HHI has been computed based on the volume of electricity traded (inter-State & intra-State) by inter-State trading licensees, and it was 0.1405 for the month of November 2015, which indicates non-concentration of market power (Table-2).

The volume of electricity transacted through IEX and PXIL in the day ahead market was 2719.78 MUs and 8.20 MUs respectively. The volume of total buy bids and sell bids was 3268.63 MUs and 4609.63 MUs respectively in IEX while the same was 32.27 MUs and 28.44 MUs respectively in PXIL. The variation in the volume of buy bids and sell bids placed through power exchanges shows variation in the demand and supply position.

The volume of electricity transacted through IEX and PXIL in the term-ahead market was 19.41 MUs and 80.67 MUs respectively (Table-6 & Table-7).

II: Price of Short-term Transactions of Electricity

(i) Price of electricity transacted through Traders: The minimum, maximum and weighted average sale prices have been computed for the electricity transacted through traders and the sale prices were ₹3.02/kWh, ₹7.99/kWh and ₹4.44/kWh respectively (Table-3). The weighted average sale prices were also computed for the transactions during Round

the Clock (RTC), Peak, and Off-Peak periods separately, and the sale prices were ₹5.37/kWh, ₹3.89/kWh and ₹3.55/kWh respectively (Table-4).

(ii) Price of electricity transacted through Power Exchanges: The 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 ₹0.60/kWh, ₹9.02/kWh and ₹2.73/kWh respectively in IEX and ₹1.17/kWh, ₹4.44/kWh and ₹2.82/kWh respectively in PXIL (Table-5).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹3.06/kWh and ₹2.83/kWh respectively (Table-6 and Table-7).

(iii) *Price of electricity transacted through DSM:* The average deviation settlement price was ₹1.85/kWh for all India grid. The minimum and maximum deviation settlement prices were ₹0.00/kWh and ₹7.20/kWh respectively in the all India grid (Table-8).

The prices of electricity transacted through trading licensees, power exchanges and DSM and their comparison is shown in Table-18 & 19, Figure-5 & 6.

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

Of the total bilateral transactions, top 5 regional entities sold 21.77% of the volume, and these were Haryana, Delhi, Punjab, GMR Kamalanga Energy Ltd and Thermal Powertech Corporation India Ltd. Top 5 regional entities purchased 45.54% of the volume, and these were Madhya Pradhesh, Telangana, Chhattisgarh, Andhra Pradesh and Bihar (Table-9 & 10).

Of the total power exchange transactions, top 5 regional entities sold 37.88% of the volume, and these were Jindal India Thermal Power Ltd, Gujarat, Sterlite Energy Ltd, Chhattisgarh and Korba West Power Company Ltd. Top 5 regional entities purchased 48.77% of the volume, and these were Rajasthan, Gujarat, Delhi, Bihar and Haryana (Table-11 & 12).

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.

Of the total DSM transactions, top 5 regional entities underdrew 39.37% of the volume, and these were Maharashtra, NTPC Stations (Western Region), Gujarat, Tamil Nadu and Uttar Pradesh (Table-13). Top 5 regional entities overdrew 29.18% of the volume, and these were Uttar Pradesh, NTPC Stations (Eastern Region), Punjab, Rajasthan, and NTPC Stations (Northern Region) (Table-14).

Regional entity-wise total volume of net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchanges and DSM is shown in Table-15 & 19. Top 5 electricity selling regional entities were Jindal India Thermal Power Ltd, Thermal Powertech Corporation India Ltd, GMR Kamalanga Energy Ltd, Simhapuri Energy Private Ltd and Jindal Power Ltd. Top 5 electricity purchasing regional entities were Rajasthan, Madhya Pradesh, Bihar, Telangana, and Uttarakhand.

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 2015, congestion occurred in both the power exchanges. The details of congestion 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

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.

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 IEX and PXIL due to congestion was 4.08% and 39.72% of the unconstrained cleared volume respectively. In terms of time, congestion occurred was 65.07% in IEX and 45.24% in PXIL (Table-16).

V: Bilateral Contracts executed by Traders

In addition to the analysis on short-term transactions of electricity in November 2015, this section covers an analysis of bilateral contracts executed in December 2015.

(i) *Duration of bilateral contracts:* During December 2015, a total of 17 bilateral contracts (excluding banking/swap contracts) have been executed by traders for the volume of 845.30 MUs. Figure-7 shows the percentage of contracts categorized according to the period of power supply. It can be observed from the figure that 35% of the bilateral contracts were executed for duration of up to one week, 35% of the contracts were executed for duration of more than a week and upto one month, 12% of the contracts were executed for duration of more than one month and upto three months and the rest 18% of the contracts were executed for duration of more than three months and upto one year.

During the month, 8 banking/swapping bilateral contracts were also executed for the volume of 286.86 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. The price of each contract for each day is taken into consideration while constructing the forward curve. On the basis of these prices, the 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 December, 2015 to May, 2016 based on bilateral contracts⁴ executed till December, 2015.

⁴*Excluding Banking/Swapping contracts*

Forward curves have been drawn for the contracts executed in December, 2015 and November, 2015 for the purpose of comparison. It is observed that the forward prices from January, 2016 to May, 2016 were lower for the contracts executed in December, 2015 compared to the contracts executed in November, 2015.

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 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 electricity market.

One REC is equivalent to 1 MWh 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, 2015 are shown in Table-20. The market clearing volume of solar RECs transacted on IEX and PXIL were 41102 and 46665 respectively and the market clearing price of these RECs was ₹3500/MWh on both the power exchanges. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 89107 and 142438 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 less demand for solar RECs and non-solar RECs. For Solar RECs, the ratio of buy bids to sell bids was 0.02 and 0.05 for IEX and PXIL respectively. For non-solar RECs, the ratio of buy bids to sell bids was 0.01 for IEX and 0.02 for PXIL.

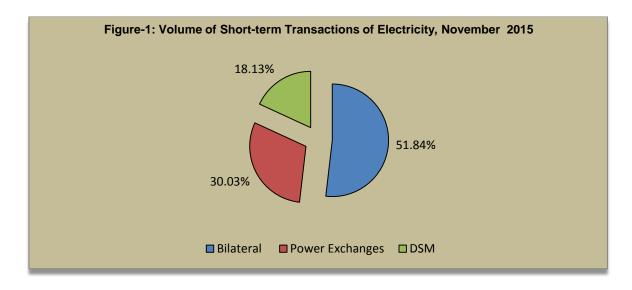
VII: Inferences:

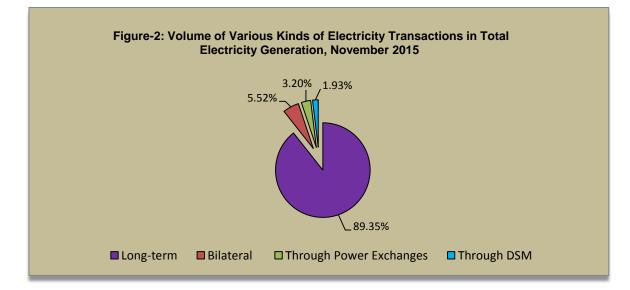
- The percentage of short-term transactions of electricity to total electricity generation was 10.65%.
- Of the total short-term transactions of electricity, 51.84% was transacted through bilateral (through traders and term ahead contracts on power exchanges and directly by distribution companies), followed by 30.03% through power exchanges and 18.13% through DSM.
- Top 5 trading licensees had a share of 75.33 % in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for the volume of electricity traded by trading licensees was 0.1405, indicating non-concentration of market power.
- The weighted average price of electricity transacted through trading licensees was ₹4.44/kWh. The weighted average prices of electricity transacted through IEX and PXIL were ₹2.73/kWh and ₹2.82/kWh respectively.
- The average price of electricity transacted through DSM was ₹1.85/kWh
- Top 5 electricity selling regional entities were Jindal India Thermal Power Ltd, Thermal Powertech Corporation India Ltd, GMR Kamalanga Energy Ltd, Simhapuri Energy Private Ltd and Jindal Power Ltd. Top 5 electricity purchasing regional entities were Rajasthan, Madhya Pradesh, Bihar, Telangana, and Uttarakhand.
- The volume of electricity that could not be cleared due to congestion was 4.08% and 39.72% of the unconstrained cleared volume for IEX and PXIL, respectively. In terms of time, congestion occurred was 65.07% of the time in IEX and 45.24% of the time in PXIL.
- In December 2015, 35% of the bilateral contracts were executed for duration of up to one week, 35% of the contracts were executed for duration of more than a week and upto one month, 12% of the contracts were executed for duration of more than one month and upto

three months and the rest 18% of the contracts were executed for duration of more than three months and upto one year

- The forward prices from January, 2016 to May, 2016 were lower for the contracts executed in December, 2015 compared to the contracts executed in November, 2015.
- The market clearing volume of solar RECs transacted on IEX and PXIL were 41102 and 46665 respectively and the market clearing price of these RECs was ₹3500/MWh on both the power exchanges. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 89107 and 142438 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), NOVEMBER 2015				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	4709.77	51.84	5.52
	(i) Through Traders and PXs	2514.98	27.68	2.95
	(ii) Direct	2194.79	24.16	2.57
2	Through Power Exchanges	2727.99	30.03	3.20
	(i) IEX	2719.78	29.94	3.19
	(ii) PXIL	8.20	0.09	0.01
3	Through DSM	1646.95	18.13	1.93
	Total	9084.70	-	10.65
	Total Generation	85327.13	_	_
Source: NLDC				





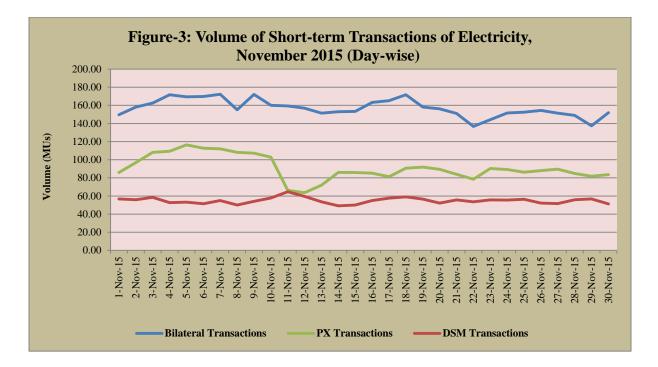


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, NOVEMBER 2015				
Sr.No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl- Hirschman Index	
1	PTC India Ltd.	26.93	0.0725	
2	Tata Power Trading Company (P) Ltd.	14.77	0.0218	
3	Mittal Processors (P) Ltd.	12.08	0.0146	
4	JSW Power Trading Company Ltd	10.89	0.0119	
5	Manikaran Power Ltd.	10.67	0.0114	
6	NTPC Vidyut Vyapar Nigam Ltd.	5.50	0.0030	
7	Adani Enterprises Ltd.	5.11	0.0026	
8	GMR Energy Trading Ltd.	3.08	0.0009	
9	Arunachal Pradesh Power Corporation (P) ltd	2.85	0.0008	
10	Knowledge Infrastructure Systems (P) Ltd	1.65	0.0003	
11	Instinct Infra & Power Ltd.	1.56	0.0002	
12	Jaiprakash Associates Ltd.	1.42	0.0002	
13	Shree Cement Ltd.	1.12	0.0001	
14	RPG Power Trading Company Ltd.	0.68	0.0000	
15	Essar Electric Power Development Corp. Ltd.	0.45	0.0000	
16	SN Power Markets Pvt. Ltd.	0.39	0.0000	
17	My Home Power Private Ltd.	0.30	0.0000	
18	National Energy Trading & Services Ltd.	0.25	0.0000	
19	Customized Energy Solutions India (P) Ltd.	0.16	0.0000	
20	Ambitious Power Trading Company Ltd.	0.15	0.0000	
	TOTAL 100.00% 0.1405			
Top 5 trading licensees 75.33%				
<i>Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions (inter-state & intra-state) and the transactions undertaken through power exchanges.</i>				

Table 2. PERCENTACE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES

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

Source: Information submitted by trading licensees

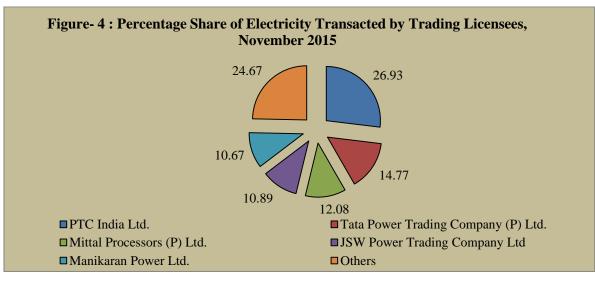


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, NOVEMBER 2015			
Sr.No	b Item Sale Price of Traders (₹/kWh)		
1	Minimum	3.02	
2	Maximum	7.99	
3	3 Weighted Average 4.44		

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE),NOVEMBER 2015			
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)	
1	RTC	5.37	
2 PEAK 3.89			
3	OFF PEAK 3.55		
On the second se			

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, NOVEMBER 2015			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	0.60	1.17
2	Maximum	9.02	4.44
3	Weighted Average	2.73	2.82

Source: Information submitted by IEX and PXIL

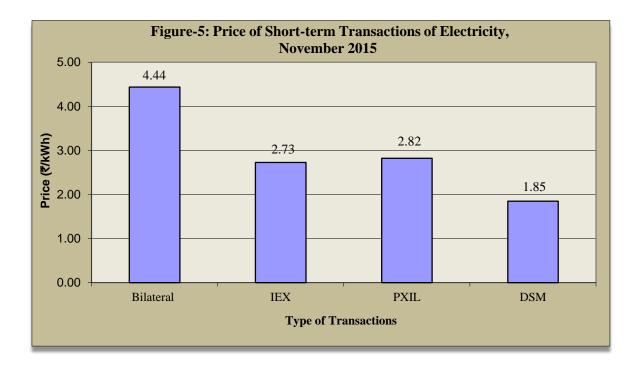
Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, NOVEMBER 2015			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	13.76	3.19
2	Day Ahead Contingency Contracts	5.65	2.75
	Total	19.41	3.06
Source: JEX			

Source: IEX

Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, NOVEMBER 2015				
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	35.19	2.88	
2	2 Daily Conttacts 45.48 2.80			
	Total	80.67	2.83	

Source: PXIL

Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH DSM, NOVEMBER 2015			
Sr.No	Item Price in All India Grid (₹/kWh)		
1	Minimum	0.00	
2	Maximum	7.20	
3	3 Average 1.85		
Source: NLDC			



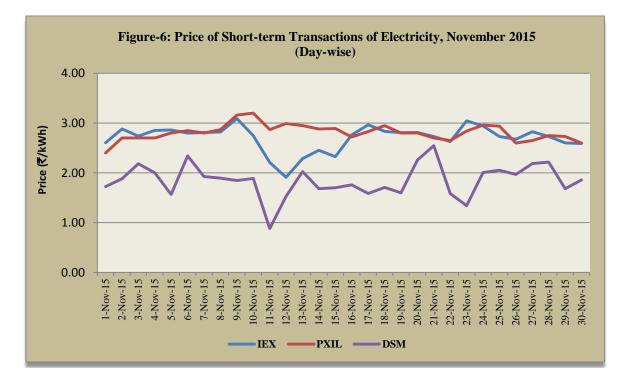


Table-9: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, NOVEMBER 2015				
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume		
HARYANA	484.95	5.55		
DELHI	422.71	4.84		
PUNJAB	374.89	4.29		
GMR KAMALANGA	330.01	3.78		
THERMAL POWERTECH	289.25	3.31		
SIMHAPURI	219.96	2.52		
UTTAR PRADESH	199.92	2.29		
GUJARAT	189.72	2.17		
WEST BENGAL	183.28	2.10		
LANKO KONDAPALLI	169.59	1.94		
JINDAL POWER	167.80	1.92		
JITPL	140.01	1.60		
CHHATTISGARH	134.47	1.54		
RAJASTHAN	109.62	1.25		
SHREE CEMENT	107.25	1.23		
STERLITE	103.92	1.19		
DB POWER	97.92	1.12		
HIMACHAL PRADESH	97.40	1.11		
ANDHRA PRADESH	91.13	1.04		
ADHUNIK POWER LTD	86.08	0.99		
MEENAKSHI	83.66	0.96		
DVC	43.97	0.50		
ODISHA	40.50	0.46		
DAGACHU	28.20	0.32		
J&K	25.37	0.29		
JINDAL STAGE-II	25.26	0.29		
ACBIL	25.10	0.29		
NSPCL	22.46	0.26		
TELANGANA	19.01	0.22		
TRIPURA	17.27	0.20		
EMCO	13.61	0.16		
GMR CHHATTISGARH	9.91	0.11		
CHANDIGARH	7.20	0.08		
MAHARASHTRA	4.97	0.06		
MEGHALAYA	1.23	0.01		
TOTAL	4367.58	50.00		
Total	8735.16	100.00		
Volume Sold by top 5 Regional Entities	1901.80	21.77		

Table-10: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, NOVEMBER 2015				
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume		
MP	624.53	13.26		
TELANGANA	458.06	9.73		
CHHATTISGARH	369.43	7.84		
ANDHRA PRADESH	358.10	7.60		
BIHAR	334.49	7.10		
J&K	302.68	6.43		
GUJARAT	300.45	6.38		
MAHARASHTRA	294.48	6.25		
HIMACHAL PRADESH	252.41	5.36		
RAJASTHAN	250.82	5.33		
HARYANA	228.43	4.85		
WEST BENGAL	147.70	3.14		
UTTARAKHAND	144.00	3.06		
UTTAR PRADESH	142.28	3.02		
ODISHA	129.16	2.74		
KERALA	125.37	2.66		
JHARKHAND	88.80	1.89		
ESSAR STEEL	61.11	1.30		
MEGHALAYA	39.65	0.84		
MANIPUR	14.25	0.30		
DADRA & NAGAR HAVELI	14.20	0.30		
PUNJAB	7.92	0.17		
KARNATAKA	7.89	0.17		
TAMIL NADU	7.11	0.15		
GOA	3.52	0.07		
DELHI	2.45	0.05		
ASSAM	0.48	0.01		
TOTAL	4709.77	100.00		
Volume Purchased by top 5 Regional Entities	2144.61	45.54		

Table-11: VOLUME OF ELECTRICITY SOLD THROUGH POWER EXCHANGES, NOVEMBER 2015						
Name of the State/UT/Other Regional Entity Volume of Sale (MUs) %						
JITPL	380.69	14.08				
GUJARAT	200.91	7.43				
STERLITE	172.78	6.39				
CHHATTISGARH	135.96	5.03				
KORBA WEST POWER	133.95	4.95				
HIMACHAL PRADESH	113.50	4.20				
JINDAL POWER	104.56	3.87				
DCPP(DONGA MAHUA CAPTIVE POWER PLANT)	99.39	3.68				
THERMAL POWERTECH	96.70	3.58				
KARCHAM WANGTOO	91.21	3.37				
TRIPURA	81.14	3.00				
ODISHA	77.41	2.86				
HARYANA	76.82	2.84				
SIMHAPURI	64.78	2.40				
JAYPEE NIGRIE	61.92	2.29				
GMR CHHATTISGARH	57.41	2.29				
MAITHON POWER LTD	57.12	2.12				
DB POWER	57.12	1.85				
TELANGANA	50.09	1.85				
ADHUNIK POWER LTD	49.21	1.82				
MAHARASHTRA	45.83	1.69				
J&K	42.25	1.56				
RAJASTHAN	37.45	1.39				
MP	34.78	1.29				
SHREE CEMENT	33.00	1.22				
JINDAL STAGE-II	27.22	1.01				
SIKKIM	27.04	1.00				
WEST BENGAL	26.59	0.98				
MANIPUR	26.45	0.98				
MEENAKSHI	23.73	0.88				
ACBIL	23.23	0.86				
AD HYDRO	19.62	0.73				
CHUZACHEN HEP	19.31	0.71				
NHPC STATIONS	18.49	0.68				
DVC	17.63	0.65				
DELHI	15.38	0.57				
GMR KAMALANGA	13.84	0.51				
ASSAM	13.51	0.50				
SPECTRUM	13.15	0.49				
MEGHALAYA	11.09	0.41				
CHANDIGARH	8.54	0.32				
LANCO BUDHIL	7.52	0.28				
NJPC	6.38	0.24				
BALCO	5.48	0.20				
EMCO	5.07	0.19				
ANDHRA PRADESH	4.80	0.18				
MIZORAM	4.36	0.16				
UTTARAKHAND	4.23	0.16				
KERALA	3.80	0.14				
DHARIWAL POWER	3.79	0.14				
GOA	2.87	0.11				
NAGALAND	1.09	0.04				
MALANA	0.51	0.02				
LOKTAK	0.13	0.00				
Total	2703.74	100.00				
Volume sold by top 5 Regional Entities	1024.29	37.88				

Table-12: VOLUME OF ELECTRICITY PURCHASED THROUGH POWER EXCHANGES, NOVEMBER 2015				
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume		
RAJASTHAN	488.80	17.92		
GUJARAT	240.66	8.82		
DELHI	210.95	7.73		
BIHAR	198.21	7.27		
HARYANA	191.91	7.03		
PUNJAB	179.63	6.58		
WEST BENGAL	143.03	5.24		
UTTARAKHAND	142.06	5.21		
ESSAR STEEL	136.45	5.00		
KERALA	120.82	4.43		
KARNATAKA	101.43	3.72		
MAHARASHTRA	97.00	3.56		
DADRA & NAGAR HAVELI	77.98	2.86		
TELANGANA	73.77	2.70		
ANDHRA PRADESH	57.02	2.09		
ODISHA	53.10	1.95		
HIMACHAL PRADESH	44.03	1.61		
ASSAM	43.52	1.60		
DAMAN AND DIU	36.07	1.32		
GOA	28.11	1.03		
MEGHALAYA	22.67	0.83		
MP	13.10	0.48		
TAMIL NADU	8.26	0.30		
JHARKHAND	6.90	0.25		
UTTAR PRADESH	6.59	0.24		
ARUNACHAL PRADESH	3.66	0.13		
NAGALAND	1.01	0.04		
J&K	0.78	0.03		
CHANDIGARH	0.45	0.02		
TOTAL	2727.98	100.00		
Volume purchased by top 5 Regional Entities	1330.53	48.77		

Table-12: VOLUME OF ELECTRICITY PURCHASED THROUGH POWER EXCHANGES

Name of the State/UT/Other Regional Entity Volume of Under drawal (MUs) % of Volume MAHARASHTRA 182.69 11.75 NTPC STATIONS-WR 170.38 10.96 GUJARAT 95.36 6.14 TAMIL NADU 84.63 5.44 UTTAR PRADESH 79.04 5.09 NHPC STATIONS 71.59 4.61 MP 77.23 4.58 NTPC STATIONS-ER 53.44 3.17 TELANGANA 440.22 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDRA PRADESH 38.69 2.49 NTPC STATIONS-IR 33.6.71 2.30 BHAR 35.51 2.30 BHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 DVC 26.04 1.68 ODISHA 22.59 1.45 DELH 10.81 0.06 NTPC STATIONS-SR 13.23 </th <th colspan="5">Table-13: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, NOVEMBER 2015</th>	Table-13: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, NOVEMBER 2015				
NTPC STATIONS-WR 170.38 10.96 GUJARAT 95.36 6.114 TAMIL NADU 84.63 5.44 UTTAR PRADESH 79.04 50.99 NHPC STATIONS 71.59 4.61 MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 46.69 3.00 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BIHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BEINGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI	Name of the State/UT/Other Regional Entity		% of Volume		
GUJARAT 95.36 6.14 TAMIL NADU 84.63 5.44 UTTAR PRADESH 79.04 5.09 NHPC STATIONS 71.59 4.61 MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J& K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.62 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP<	MAHARASHTRA	182.58	11.75		
TAMIL NADU 84.63 5.44 UTTAR PRADESH 79.04 5.09 MPC STATIONS 71.59 4.61 MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 48.02 3.00 RAJASTHAN 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 IIMACHAL PRADESH 10.80 0.69 DCPP(DONGA MAHUA CAPTIVE POWER PLAN	NTPC STATIONS-WR	170.38	10.96		
UTTAR PRADESH 79.04 5.09 NHPC STATIONS 71.59 4.61 MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 48.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.51 2.30 BIHAR 35.59 2.29 CHHARTIONS-NR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J& K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 JAPEE NIGRI	GUJARAT	95.36	6.14		
UTTAR PRADESH 79.04 5.09 NHPC STATIONS 71.59 4.61 MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 48.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.51 2.30 BIHAR 35.59 2.29 CHHARTIONS-NR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J& K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 JAPEE NIGRI	TAMIL NADU	84.63	5.44		
NHPC STATIONS 71.59 4.61 MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 48.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BIHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.16 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.66 JAYPEE			5.09		
MP 71.23 4.58 NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 48.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.571 2.30 BIHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.66 JAYPEE NIGRIE 9.59 0.62 JAPK L	NHPC STATIONS		4.61		
NTPC STATIONS-ER 53.44 3.44 KARNATAKA 49.34 3.17 TELANGANA 48.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BIHAR 355.59 2.29 CHHATTISGARH 30.13 1.94 DVC 26.04 1.68 ODISHA 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.69 DCPP(DONGA MAHUA CAPTIVE POWER PLANT) 10.11 0.65 GGPL(COASTAL GUJARAT POWER LTD) 10.08 0.62 JITPL 8.38 0.54 DADRA & NAGAR HAVELI 8.27 <td></td> <td>71.23</td> <td>4.58</td>		71.23	4.58		
KARNATAKA 49.34 3.17 TELANGANA 46.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BIHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.66 JAYPE NIGRIE 9.59 0.62 JITPL 8.38 0.54 DADRA & NAGAR HAVELI 8.27 0.53 UTT					
TELANGANA 48.02 3.09 HARYANA 46.69 3.00 RAJASTHAN 40.62 2.61 PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BIHAR 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J& K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELH 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.69 DCPP(DONGA MAHUA CAPTIVE POWER PLANT) 10.11 0.65 GCPU(COASTAL GUJARAT POWER LTD) 10.83 0.54 JAYPEE NIGRIE 9.59 0.62 JITPL 8.38 0.54 DADRA & NAGAR HAVELI 8.27 <t< td=""><td></td><td></td><td></td></t<>					
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PUNJAB 39.45 2.54 ANDHRA PRADESH 38.69 2.49 NTPC STATIONS-NR 35.71 2.30 BIHAR 35.59 2.29 CHHATTISGARH 33.20 2.14 WEST BENGAL 30.13 1.94 DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.69 DCPP(DONGA MAHUA CAPTIVE POWER PLANT) 10.11 0.65 CGPL(COASTAL GUJARAT POWER LTD) 10.08 0.65 JITPL 8.38 0.54 DADRA & NAGAR HAVELI 8.27 0.53 UTTARAKHAND 7.90 0.51 PONDICHERRY 6.97 0.45 MAITHON POWER LTD 6.63 <td></td> <td></td> <td></td>					
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DVC 26.04 1.68 ODISHA 24.70 1.59 J & K 22.59 1.45 ESSAR STEEL 19.21 1.24 JHARKHAND 17.82 1.15 DELHI 16.48 1.06 NTPC STATIONS-SR 13.23 0.85 RANGANADI HEP 10.81 0.70 HIMACHAL PRADESH 10.80 0.69 DCPP(DONGA MAHUA CAPTIVE POWER PLANT) 10.11 0.65 CGPL(COASTAL GUJARAT POWER LTD) 10.08 0.65 JAYPEE NIGRIE 9.59 0.62 JITPL 8.38 0.54 DADRA & NAGAR HAVELI 8.27 0.53 UTTARAKHAND 7.90 0.51 PONDICHERRY 6.97 0.45 MAITHON POWER LTD 6.63 0.43 ASSAM 6.49 0.42 JINDAL POWER 6.65 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 <td< td=""><td></td><td></td><td></td></td<>					
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ASSAM 6.49 0.42 JINDAL POWER 6.45 0.41 NJPC 6.43 0.41 MEGHALAYA 6.29 0.40 GOA 6.28 0.40 NSPCL 6.05 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.03 0.26 BALCO 4.03 0.25	PONDICHERRY	6.97	0.45		
JINDAL POWER 6.45 0.41 NJPC 6.43 0.41 MEGHALAYA 6.29 0.40 GOA 6.28 0.40 NSPCL 6.05 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.03 0.26 KSK MAHANADI 3.88 0.25	MAITHON POWER LTD	6.63	0.43		
NJPC 6.43 0.41 MEGHALAYA 6.29 0.40 GOA 6.28 0.40 NSPCL 6.05 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.03 0.26 KSK MAHANADI 3.88 0.25	ASSAM	6.49	0.42		
MEGHALAYA 6.29 0.40 GOA 6.28 0.40 NSPCL 6.05 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.03 0.26 KSK MAHANADI 3.88 0.25	JINDAL POWER	6.45	0.41		
GOA 6.28 0.40 NSPCL 6.05 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.10 0.26 BALCO 4.03 0.26 KSK MAHANADI 3.88 0.25	NJPC	6.43	0.41		
NSPCL 6.05 0.39 TEESTA HEP 5.78 0.37 SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.10 0.26 BALCO 4.03 0.26 KSK MAHANADI 3.88 0.25	MEGHALAYA	6.29	0.40		
TEESTA HEP5.780.37SIKKIM5.620.36CHANDIGARH5.420.35THERMAL POWERTECH4.750.31DAMAN AND DIU4.120.27KORBA WEST POWER4.100.26BALCO4.030.26KSK MAHANADI3.880.25	GOA	6.28	0.40		
TEESTA HEP5.780.37SIKKIM5.620.36CHANDIGARH5.420.35THERMAL POWERTECH4.750.31DAMAN AND DIU4.120.27KORBA WEST POWER4.100.26BALCO4.030.26KSK MAHANADI3.880.25	NSPCL	6.05	0.39		
SIKKIM 5.62 0.36 CHANDIGARH 5.42 0.35 THERMAL POWERTECH 4.75 0.31 DAMAN AND DIU 4.12 0.27 KORBA WEST POWER 4.10 0.26 BALCO 4.03 0.26 KSK MAHANADI 3.88 0.25					
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BALCO 4.03 0.26 KSK MAHANADI 3.88 0.25					
KSK MAHANADI 3.88 0.25					
	ADHUNIK POWER LTD	3.81	0.25		

DB POWER	3.16	0.20
EMCO	2.98	0.19
URI-2	2.74	0.18
GMR KAMALANGA	2.72	0.17
KARCHAM WANGTOO	2.49	0.16
STERLITE	2.34	0.15
MANIPUR	2.33	0.15
LANKO_AMK	1.91	0.12
KERALA	1.88	0.12
MB POWER	1.86	0.12
ARUNACHAL PRADESH	1.71	0.11
SIMHAPURI	1.44	0.09
COASTGEN	1.43	0.09
ACBIL	1.36	0.09
RANGIT HEP	1.27	0.08
TRIPURA	1.07	0.07
SHREE CEMENT	1.04	0.07
DGEN MEGA POWER	0.98	0.06
AD HYDRO	0.96	0.06
NAGALAND	0.94	0.06
CHUZACHEN HEP	0.69	0.04
MEENAKSHI	0.66	0.04
MIZORAM	0.39	0.02
GMR CHHATTISGARH	0.34	0.02
LANCO BUDHIL	0.20	0.01
MALANA	0.16	0.01
VANDANA VIDYUT	0.12	0.01
RGPPL(DABHOL)	0.12	0.01
DAGACHU	0.10	0.01
ADANI HVDC	0.0897	0.01
DHARIWAL POWER	0.0569	0.00
Total	1554.34	100.00
Volume Exported by top 5 Regional Entities	612.00	39.37

Table-14: VOLUME OF ELECTRICITY OVER DRAWAL (IMPORTED) THROUGH DSM, NOVEMBER 2015				
Name of the State/UT/Other Regional Entity	Volume of Over drawal (MUs)	% of Volume		
UTTAR PRADESH	104.35	7.15		
NTPC STATIONS-ER	85.44	5.85		
PUNJAB	84.61	5.79		
RAJASTHAN	78.38	5.37		
NTPC STATIONS-NR	73.27	5.02		
KERALA	71.48	4.90		
KARNATAKA	65.13	4.46		
NTPC STATIONS-WR	55.95	3.83		
UTTARAKHAND	50.87	3.48		
HARYANA	47.01	3.22		
ODISHA	40.98	2.81		
NTPC STATIONS-SR	40.83	2.80		
ANDHRA PRADESH	35.15	2.41		
BIHAR	33.02	2.26		
DELHI	32.34	2.21		
GUJARAT	30.32	2.08		
TAMIL NADU	30.23	2.07		
GOA	30.13	2.06		
HIMACHAL PRADESH	29.92	2.05		
TELANGANA	27.06	1.85		
ASSAM	24.28	1.66		
WEST BENGAL	23.62	1.62		
CHHATTISGARH	21.85	1.50		
STERLITE	21.42	1.47		
THERMAL POWERTECH	20.52	1.41		
ESSAR STEEL	19.20	1.31		
MP	18.46	1.26		
J&K	15.62	1.07		
MAHARASHTRA	15.42	1.06		
GMR CHHATTISGARH	13.42	0.92		
ARUNACHAL PRADESH	12.43	0.85		
DVC	11.81	0.81		
JHARKHAND	11.50	0.79		
JITPL	11.18	0.79		
CHANDIGARH	9.99	0.68		
LANKO KONDAPALLI	9.65	0.66		
BALCO	9.21	0.63		
CGPL(COASTAL GUJARAT POWER LTD)	8.94	0.61		
	8.57	0.59		
RGPPL(DABHOL)	8.51	0.58		
	8.30	0.57		
NAGALAND	8.12	0.56		
	7.10	0.49		
	6.91	0.47		
DAMAN AND DIU	5.98	0.41		
NSPCL	4.99	0.34		
	4.78	0.33		
JINDAL POWER	4.74	0.32		

MIZORAM	4.52	0.31
PONDICHERRY	4.03	0.28
NJPC	4.01	0.27
MAITHON POWER LTD	3.97	0.27
COASTGEN	3.93	0.27
MANIPUR	3.60	0.25
DB POWER	3.54	0.24
GMR KAMALANGA	3.23	0.22
RANGANADI HEP	3.16	0.22
MEENAKSHI	3.05	0.21
ACBIL	2.89	0.20
MEGHALAYA	2.74	0.19
KARCHAM WANGTOO	2.65	0.18
KORBA WEST POWER	2.50	0.17
EMCO	2.23	0.15
SHREE CEMENT	2.16	0.15
JAYPEE NIGRIE	2.07	0.14
KSK MAHANADI	2.02	0.14
SIKKIM	1.76	0.12
DADRA & NAGAR HAVELI	1.66	0.11
ADHUNIK POWER LTD	1.26	0.09
ESSAR POWER	1.10	0.08
DGEN MEGA POWER	1.03	0.07
DHARIWAL POWER	0.79	0.05
RANGIT HEP	0.76	0.05
URI-2	0.65	0.04
DAGACHU	0.52	0.04
MALANA	0.30	0.02
AD HYDRO	0.28	0.02
CHUZACHEN HEP	0.27	0.02
LANKO_AMK	0.22	0.01
LANCO BUDHIL	0.17	0.01
ADANI HVDC	0.05	0.00
TEESTA HEP	0.050	0.00
TOTAL	1460.18	100.00
Volume Imported by top 5 Regional Entities	426.05	29.18

Sr.No.	Name of the State/UT/Other Regional Entity	Total volume of net short-term
1	RAJASTHAN	transactions of electricity*
1 2	MP	630.31 550.08
	BIHAR	
3		530.13
4 5	TELANGANA	441.79
		324.81
6	ANDHRA PRADESH	315.65
7	KERALA	312.00
8		228.86
9	ESSAR STEEL	197.55
10	MAHARASHTRA	173.53
11	KARNATAKA	125.12
12	HIMACHAL PRADESH	104.67
13	JHARKHAND	89.39
14	CHHATTISGARH	87.66
15	DADRA & NAGAR HAVELI	85.58
16	GUJARAT	85.44
17	ODISHA	80.64
18	WEST BENGAL	74.36
19	GOA	52.60
20	ASSAM	48.28
21	MEGHALAYA	46.45
22	DAMAN AND DIU	37.93
23	NTPC STATIONS-NR	37.56
24	NTPC STATIONS-ER	32.00
25	NTPC STATIONS-SR	27.60
26	ARUNACHAL PRADESH	14.38
27	RGPPL(DABHOL)	8.39
28	NAGALAND	7.10
29	MB POWER	6.44
30	COASTGEN	2.50
31	ESSAR POWER	1.10
32	DGEN MEGA POWER	0.05
33	MARUTI COAL	0.00
34	NTPC STATIONS-NER	0.00
35	NEEPCO STATIONS	0.00
36	DOYANG HEP	0.00
37	ONGC PALATANA	0.00
38	ADANI HVDC	-0.04
39	VANDANA VIDYUT	-0.12
40	LOKTAK	-0.13
41	MIZORAM	-0.23
42	BALCO	-0.30
43	MALANA	-0.36
44	RANGIT HEP	-0.51
45	CGPL(COASTAL GUJARAT POWER LTD)	-1.14
46	LANKO_AMK	-1.70
47	KSK MAHANADI	-1.87
48	URI-2	-2.10

49	PONDICHERRY	-2.94
50	DHARIWAL POWER	-3.06
51	TEESTA HEP	-5.73
52	LANCO BUDHIL	-7.55
53	RANGANADI HEP	-7.65
54	NJPC	-8.80
55	CHANDIGARH	-10.72
56	MANIPUR	-10.93
57	SPECTRUM	-13.15
58	EMCO	-19.43
59	CHUZACHEN HEP	-19.73
60	AD HYDRO	-20.31
61	NSPCL	-23.52
62	UTTAR PRADESH	-25.74
63	DAGACHU	-27.78
64	SIKKIM	-30.90
65	TAMIL NADU	-39.03
66	ACBIL	-46.79
67	JINDAL STAGE-II	-52.48
68	GMR CHATTISGARH	-54.24
69	MAITHON POWER LTD	-54.24 -59.78
70	JAYPEE NIGRIE	-69.44
70	DVC	-75.83
72	NHPC STATIONS	-85.30
72	TRIPURA	-90.91
73	KARCHAM WANGTOO	-90.91
74		-91.05
75	DCPP(DONGA MAHUA CAPTIVE POWER PLANT)	-102.40
76	MEENAKSHI	-105.00
77	NTPC STATIONS-WR	-114.43
78	KORBA WEST POWER	-135.56
79	ADHUNIK POWER LTD	-137.83
80	SHREE CEMENT	-139.13
81	HARYANA	-141.11
82	PUNJAB	-142.17
83	DB POWER	-147.63
84	LANKO KONDAPALLI	-159.93
85	DELHI	-208.84
86	STERLITE	-257.63
87	JINDAL POWER	-274.07
88	SIMHAPURI	-279.26
89	GMR KAMALANGA	-343.33
90	THERMAL POWERTECH	-370.17
91	JITPL	-517.90

(-) indicates sale and (+) indicates purchase

Table-16: DETAILS OF CONGESTION IN POWER EXCHANGES, NOVEMBER 2015						
	Details of Congestion IEX PXI					
А	Unconstrained Cleared Volume* (MUs)	2844.73	13.61			
В	Actual Cleared Volume and hence scheduled (MUs)	2728.54	8.20			
С	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B)	116.19	5.40			
D	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	4.08%	39.72%			
E	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	65.07%	45.24%			
F	Congestion occurrence (%) time block wise					
	0.00 - 6.00 hours	7.74%	0.00%			
	6.00 - 12.00 hours	34.63%	34.38%			
	12.00 - 18.00 hours	30.26%	33.77%			
	18.00 - 24.00 hours 27.37% 31.85%					
* This	* This power would have been scheduled had there been no congestion.					
Sourc	Source: IEX & PXIL& NLDC					

Table-17: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (MUs) (DAY-WISE), NOVEMBER 2015						
Dete	Bila	Bilateral		Power Exchange (Area Clearing Volume# of Day Ahead Market)		Total Electricity Generation (MU) as given at CEA
Date	Through Traders and PXs**	Direct	IEX	PXIL	(Over Drawl+Under Generation)	Website*
1-Nov-15	77.72	72.01	85.69	0.23	56.74	2891.10
2-Nov-15	80.98	77.23	96.64	0.22	55.92	2987.00
3-Nov-15	83.75	78.81	107.92	0.23	58.57	3037.60
4-Nov-15	86.46	85.21	109.17	0.22	52.64	3062.40
5-Nov-15	81.24	88.22	116.27	0.22	53.30	3026.80
6-Nov-15	81.48	88.38	112.42	0.23	51.36	3047.03
7-Nov-15	86.99	85.26	111.91	0.21	54.96	3017.99
8-Nov-15	78.91	76.16	107.83	0.24	50.04	2990.90
9-Nov-15	87.53	84.64	106.99	0.35	54.09	2915.90
10-Nov-15	83.72	76.32	102.69	0.16	57.76	2798.20
11-Nov-15	90.44	68.88	66.05	0.16	64.74	2663.30
12-Nov-15	84.54	72.40	63.50	0.16	59.58	2653.30
13-Nov-15	79.25	72.19	71.84	0.17	53.52	2705.81
14-Nov-15	76.65	76.42	85.75	0.28	49.19	2734.87
15-Nov-15	78.39	75.05	85.25	0.56	50.08	2768.20
16-Nov-15	86.53	76.69	84.91	0.36	55.04	2790.36
17-Nov-15	85.25	80.03	81.01	0.30	57.70	2801.40
18-Nov-15	91.72	80.05	90.24	0.33	59.07	2802.00
19-Nov-15	87.21	70.84	91.62	0.18	56.53	2787.90
20-Nov-15	86.00	70.11	89.19	0.17	52.08	2763.19
21-Nov-15	87.24	63.90	83.72	0.21	55.66	2741.52
22-Nov-15	80.91	55.84	78.24	0.21	53.50	2731.76
23-Nov-15	84.30	59.88	89.73	0.52	55.69	2805.30
24-Nov-15	85.93	65.58	88.75	0.58	55.45	2828.00
25-Nov-15	87.05	65.35	85.85	0.38	56.36	2855.78
26-Nov-15	85.26	69.21	87.72	0.23	52.08	2857.11
27-Nov-15	83.33	68.03	89.42	0.23	51.57	2822.20
28-Nov-15	82.28	66.71	84.67	0.23	55.79	2869.03
29-Nov-15	79.42	57.97	81.36	0.43	56.66	2745.18
30-Nov-15	84.49	67.42	83.44	0.23	51.25	2826.00
Total 2514.98 2194.79 2719.78 8.20 1646.95 85327.13						
Source: NLDC * Gross Electricity Generation excluding electricity generation from renewables and captive power plants.						
	-	-			-	
					erm-ahead contract	S.
# Area Clearing Volume represents the scheduled volume of all the bid areas.						

Table-18: PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (₹/kWh),NOVEMBER 2015 (DAY-WISE)										
Market Segment Day ahead market of IEX				Day al	nead mar	ket of PXIL	Under Drawl/Over Drawl from the Grid (DSM)			
	Mini-	Maxi-	Weighted	Mini-	Maxi-	Weighted	All India Grid			
Date	mum ACP	mum ACP	Average Price*	mum ACP	mum ACP	Average Price*	Mini-mum Price	mum Price	Average Price**	
1-Nov-15	0.80	9.01	2.61	2.40	2.40	2.40	0.00	4.91	1.72	
2-Nov-15	1.25	5.80	2.88	2.70	2.70	2.70	0.00	5.95	1.88	
3-Nov-15	1.00	6.01	2.74	2.70	2.70	2.70	0.00	5.11	2.19	
4-Nov-15	1.00	5.00	2.85	1.17	4.36	2.70	0.00	5.32	2.00	
5-Nov-15	1.80	5.00	2.86	1.35	4.39	2.80	0.00	3.45	1.57	
6-Nov-15	1.59	4.30	2.80	1.87	4.36	2.85	0.00	5.74	2.34	
7-Nov-15	1.53	5.70	2.81	1.85	3.98	2.80	0.00	3.45	1.93	
8-Nov-15	2.06	5.21	2.82	1.40	4.01	2.87	0.00	5.11	1.89	
9-Nov-15	1.87	4.85	3.09	1.47	4.01	3.16	0.00	3.45	1.85	
10-Nov-15	1.04	5.00	2.75	2.00	4.44	3.20	0.00	3.45	1.89	
11-Nov-15	0.70	5.25	2.21	1.50	3.55	2.87	0.00	3.45	0.88	
12-Nov-15	0.60	5.40	1.91	2.74	3.51	2.99	0.00	5.95	1.53	
13-Nov-15	1.59	5.01	2.29	2.49	3.01	2.95	0.00	5.11	2.03	
14-Nov-15	1.75	5.01	2.45	1.50	3.01	2.88	0.00	3.24	1.68	
15-Nov-15	1.59	4.30	2.32	1.50	3.51	2.89	0.00	5.32	1.70	
16-Nov-15	1.58	5.51	2.76	1.95	3.51	2.72	0.00	5.11	1.76	
17-Nov-15	1.87	6.00	2.97	2.50	3.01	2.83	0.00	5.74	1.58	
18-Nov-15	1.98	6.01	2.83	2.60	3.01	2.95	0.00	5.95	1.71	
19-Nov-15	2.07	8.01	2.81	2.80	2.80	2.80	0.00	5.32	1.60	
20-Nov-15	1.87	7.50	2.81	2.80	2.80	2.80	0.00	6.36	2.26	
21-Nov-15	1.80	7.01	2.73	2.70	2.70	2.70	0.00	7.20	2.55	
22-Nov-15	1.81	7.01	2.63	2.65	2.65	2.65	0.00	4.91	1.58	
23-Nov-15	1.81	7.01	3.04	2.00	3.01	2.84	0.00	3.45	1.34	
24-Nov-15	1.87	6.75	2.94	2.60	3.01	2.96	0.00	4.91	2.01	
25-Nov-15	1.81	6.75	2.73	2.50	3.01	2.94	0.00	5.74	2.05	
26-Nov-15	0.90	8.01	2.68	2.08	3.00	2.60	0.00	6.16	1.97	
27-Nov-15	1.75	9.02	2.83	2.15	3.00	2.65	0.00	5.32	2.19	
28-Nov-15	1.14	7.01	2.73	2.27	2.99	2.75	0.00	5.95	2.22	
29-Nov-15	1.59	6.51	2.60	2.10	3.01	2.73	0.00	5.32	1.68	
30-Nov-15	1.00	8.01	2.59	1.95	3.00	2.60	0.00	5.11	1.86	
	0.60#	9.02#	2.70	1.17#	4.44#	2.82	0.00#	7.20#	1.85**	

Source: Data on price of PX transactions from IEX and PXIL and data on DSM 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 DSM of 96 time blocks of 15 minutes each in a day. DSM price includes Ceiling DSM Rate +40% additional DSM charge.

Maximum/Minimum in the month

Name of the	Through Bilateral			Through Power Exchange			Through DSM with Regional Grid			
State/UT/Other Regional Entity	Sale	Pur- chase	Net**	Sale	Pur- chase	Net**	Import (Over Drawl)	Export (Under Drawl)	Net**	Total Net***
PUNJAB	374.89	7.92	-366.96	0.00	179.63	179.63	84.61	39.45	45.16	-142.17
HARYANA	484.95	228.43	-256.52	76.82	191.91	115.09	47.01	46.69	0.32	-141.1
RAJASTHAN	109.62	250.82	141.20	37.45	488.80	451.35	78.38	40.62	37.75	630.3
DELHI	422.71	2.45	-420.26	15.38	210.95	195.56	32.34	16.48	15.86	-208.8
UTTAR PRADESH	199.92	142.28	-57.64	0.00	6.59	6.59	104.35	79.04	25.31	-25.7
UTTARAKHAND	0.00	144.00	144.00	4.23	142.06	137.84	50.87	7.90	42.97	324.8
HIMACHAL PRADESH	97.40	252.41	155.01	113.50	44.03	-69.46	29.92	10.80	19.12	104.6
J & K	25.37	302.68	277.31	42.25	0.78	-41.48	15.62	22.59	-6.97	228.8
CHANDIGARH	7.20	0.00	-7.20	8.54	0.45	-8.09	9.99	5.42	4.57	-10.72
MP	0.00	624.53	624.53	34.78	13.10	-21.67	18.46	71.23	-52.77	550.0
MAHARASHTRA	4.97	294.48	289.51	45.83	97.00	51.17	15.42	182.58	-167.16	173.5
GUJARAT	189.72	300.45	110.73	200.91	240.66	39.75	30.32	95.36	-65.04	85.4
CHHATTISGARH	134.47	369.43	234.96	135.96	0.00	-135.96	21.85	33.20	-11.35	87.6
DAMAN AND DIU	0.00	0.00	0.00	0.00	36.07	36.07	5.98	4.12	1.86	37.9
DADRA & NAGAR HAVELI	0.00	14.20	14.20	0.00	77.98	77.98	1.66	8.27	-6.60	85.5
ANDHRA PRADESH	91.13	358.10	266.97	4.80	57.02	52.22	35.15	38.69	-3.54	315.6
KARNATAKA	0.00	7.89	7.89	0.00	101.43	101.43	65.13	49.34	15.79	125.1
KERALA	0.00	125.37	125.37	3.80	120.82	117.03	71.48	1.88	69.60	312.0
TAMIL NADU	0.00	7.11	7.11	0.00	8.26	8.26	30.23	84.63	-54.40	-39.0
PONDICHERRY	0.00	0.00	0.00	0.00	0.00	0.00	4.03	6.97	-2.94	-2.9
GOA	0.00	3.52	3.52	2.87	28.11	25.23	30.13	6.28	23.85	52.6
TELANGANA	19.01	458.06	439.05	50.07	73.77	23.70	27.06	48.02	-20.97	441.7
WEST BENGAL	183.28	147.70	-35.58	26.59	143.03	116.45	23.62	30.13	-6.51	74.3
ODISHA	40.50	129.16	88.66	77.41	53.10	-24.30	40.98	24.70	16.28	80.6
BIHAR	0.00	334.49	334.49	0.00	198.21	198.21	33.02	35.59	-2.57	530.1
JHARKHAND	0.00	88.80	88.80	0.00	6.90	6.90	11.50	17.82	-6.32	89.3
SIKKIM	0.00	0.00	0.00	27.04	0.00	-27.04	1.76	5.62	-3.86	-30.9
DVC	43.97	0.00	-43.97	17.63	0.00	-17.63	11.81	26.04	-14.22	-75.8
ARUNACHAL PRADESH	0.00	0.00	0.00	0.00	3.66	3.66	12.43	1.71	10.72	14.3
ASSAM	0.00	0.48	0.48	13.51	43.52	30.01	24.28	6.49	17.79	48.2
MANIPUR	0.00	14.25	14.25	26.45	0.00	-26.45	3.60	2.33	1.27	-10.9
MEGHALAYA	1.23	39.65	38.42	11.09	22.67	11.58	2.74	6.29	-3.55	46.4
MIZORAM	0.00	0.00	0.00	4.36	0.00	-4.36	4.52	0.39	4.13	-0.2
NAGALAND	0.00	0.00	0.00	1.09	1.01	-0.08	8.12	0.94	7.18	7.1
TRIPURA	17.27	0.00	-17.27	81.14	0.00	-81.14	8.57	1.07	7.51	-90.9
NTPC STATIONS- NR	0.00	0.00	0.00	0.00	0.00	0.00	73.27	35.71	37.56	37.5

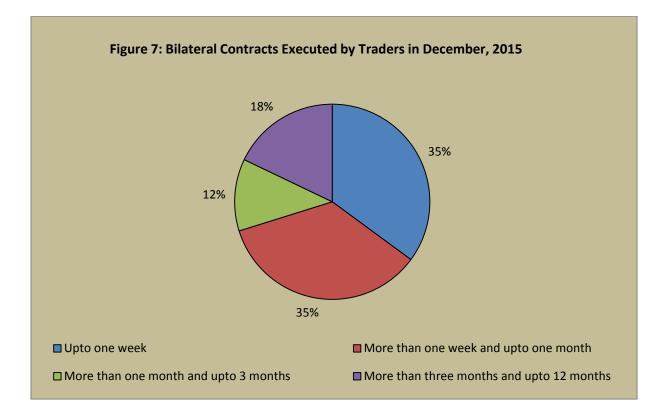
NHPC STATIONS	0.00	0.00	0.00	18.49	0.00	-18.49	4.78	71.59	-66.81	-85.30
NJPC	0.00	0.00	0.00	6.38	0.00	-6.38	4.01	6.43	-2.42	-8.80
AD HYDRO	0.00	0.00	0.00	19.62	0.00	-19.62	0.28	0.96	-0.68	-20.31
KARCHAM WANGTOO	0.00	0.00	0.00	91.21	0.00	-91.21	2.65	2.49	0.15	-91.05
SHREE CEMENT	107.25	0.00	-107.25	33.00	0.00	-33.00	2.16	1.04	1.12	-139.13
LANCO BUDHIL	0.00	0.00	0.00	7.52	0.00	-7.52	0.17	0.20	-0.03	-7.55
ADANI HVDC	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	-0.04	-0.04
MALANA	0.00	0.00	0.00	0.51	0.00	-0.51	0.30	0.16	0.15	-0.36
URI-2	0.00	0.00	0.00	0.00	0.00	0.00	0.65	2.74	-2.10	-2.10
NTPC STATIONS- WR	0.00	0.00	0.00	0.00	0.00	0.00	55.95	170.38	-114.43	-114.43
JINDAL POWER	167.80	0.00	-167.80	104.56	0.00	-104.56	4.74	6.45	-1.71	-274.07
LANKO_AMK	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.91	-1.70	-1.70
NSPCL	22.46	0.00	-22.46	0.00	0.00	0.00	4.99	6.05	-1.06	-23.52
ACBIL	25.10	0.00	-25.10	23.23	0.00	-23.23	2.89	1.36	1.54	-46.79
BALCO	0.00	0.00	0.00	5.48	0.00	-5.48	9.21	4.03	5.18	-0.30
RGPPL(DABHOL)	0.00	0.00	0.00	0.00	0.00	0.00	8.51	0.12	8.39	8.39
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	8.94	10.08	-1.14	-1.14
DCPP	0.00	0.00	0.00	99.39	0.00	-99.39	7.10	10.11	-3.01	-102.40
EMCO	13.61	0.00	-13.61	5.07	0.00	-5.07	2.23	2.98	-0.75	-19.43
VANDANA VIDYUT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	-0.12	-0.12
ESSAR STEEL	0.00	61.11	61.11	0.00	136.45	136.45	19.20	19.21	-0.01	197.55
KSK MAHANADI	0.00	0.00	0.00	0.00	0.00	0.00	2.02	3.88	-1.87	-1.87
ESSAR POWER	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	1.10	1.10
JINDAL STAGE-II	25.26	0.00	-25.26	27.22	0.00	-27.22	0.00	0.00	0.00	-52.48
DB POWER	97.92	0.00	-97.92	50.09	0.00	-50.09	3.54	3.16	0.39	-147.63
DHARIWAL POWER	0.00	0.00	0.00	3.79	0.00	-3.79	0.79	0.06	0.74	-3.06
JAYPEE NIGRIE	0.00	0.00	0.00	61.92	0.00	-61.92	2.07	9.59	-7.52	-69.44
DGEN MEGA POWER	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.98	0.05	0.05
GMR CHHATTISGARH	9.91	0.00	-9.91	57.41	0.00	-57.41	13.42	0.34	13.08	-54.24
KORBA WEST POWER	0.00	0.00	0.00	133.95	0.00	-133.95	2.50	4.10	-1.60	-135.56
MB POWER	0.00	0.00	0.00	0.00	0.00	0.00	8.30	1.86	6.44	6.44
SPECTRUM	0.00	0.00	0.00	13.15	0.00	-13.15	0.00	0.00	0.00	-13.15
NTPC STATIONS- SR	0.00	0.00	0.00	0.00	0.00	0.00	40.83	13.23	27.60	27.60
LANKO KONDAPALLI	169.59	0.00	-169.59	0.00	0.00	0.00	9.65	0.00	9.65	-159.93
SIMHAPURI	219.96	0.00	-219.96	64.78	0.00	-64.78	6.91	1.44	5.48	-279.26
MEENAKSHI	83.66	0.00	-83.66	23.73	0.00	-23.73	3.05	0.66	2.39	-105.00
COASTGEN	0.00	0.00	0.00	0.00	0.00	0.00	3.93	1.43	2.50	2.50
THERMAL POWERTECH	289.25	0.00	-289.25	96.70	0.00	-96.70	20.52	4.75	15.77	-370.17
NTPC STATIONS- ER	0.00	0.00	0.00	0.00	0.00	0.00	85.44	53.44	32.00	32.00
STERLITE	103.92	0.00	-103.92	172.78	0.00	-172.78	21.42	2.34	19.07	-257.63

MAITHON POWER	0.00	0.00	0.00	57.12	0.00	-57.12	3.97	6.63	-2.66	-59.78
ADHUNIK POWER LTD	86.08	0.00	-86.08	49.21	0.00	-49.21	1.26	3.81	-2.55	-137.83
CHUZACHEN HEP	0.00	0.00	0.00	19.31	0.00	-19.31	0.27	0.69	-0.42	-19.73
RANGIT HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.27	-0.51	-0.51
GMR KAMALANGA	330.01	0.00	-330.01	13.84	0.00	-13.84	3.23	2.72	0.52	-343.33
JITPL	140.01	0.00	-140.01	380.69	0.00	-380.69	11.18	8.38	2.80	-517.90
TEESTA HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.05	5.78	-5.73	-5.73
DAGACHU	28.20	0.00	-28.20	0.00	0.00	0.00	0.52	0.10	0.42	-27.78
RANGANADI HEP	0.00	0.00	0.00	0.00	0.00	0.00	3.16	10.81	-7.65	-7.65
LOKTAK	0.00	0.00	0.00	0.13	0.00	-0.13	0.00	0.00	0.00	-0.13
TOTAL	4367.58	4709.77	342.19	2703.74	2727.98	24.25	1460.18	1554.34	-94.15	272.29

* 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 DSM



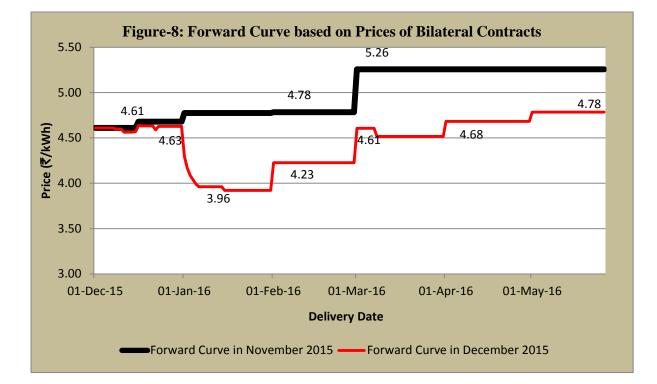


Table-20 : VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, NOVEMBER 2015

		I	EX	PXIL					
Sr.No.	Details of REC Transactions	Solar	Non-Solar	Solar	Non Solar				
А	Volume of Buy Bid	41102	89107	46665	142438				
В	Volume of Sell Bid	1976072	6176983	938422	7603829				
С	Ratio of Buy Bid to Sell Bid Volume	0.02	0.01	0.05	0.02				
D	Market Clearing Volume (MWh)	41102	89107	46665	142438				
Е	Market Clearing Price (₹/MWh)	3500	1500	3500	1500				

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh

Note 2:

Forbearance and Floor Price w.e.f 1st January 2015								
Type of REC	Floor Price (₹MWh)	Forbearance Price (₹MWh)						
Solar	3500.00	5800.00						
Non-Solar	1500.00	3300.00						