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Contents

S.No.	Contents	Page No
	Contents	i
	List of Tables and Figures	ii
	Abbreviations	iii
1	Introduction	1
2	Volume of Short-term Transactions of Electricity	1
3	Price of Short-term Transactions of Electricity	3
3.1	<i>Price of electricity transacted through Traders</i>	3
3.2	<i>Price of electricity transacted through Power Exchanges</i>	3
3.3	<i>Price of electricity transacted through DSM</i>	3
4	Trading Margin	3
5	Volume of Short-term Transactions of Electricity (Regional Entity-wise)	4
6	Congestion on Inter-State Transmission Corridor for Day-Ahead Market and Real Time Market on Power Exchanges	5
7	Volume and Price of Renewable Energy Certificates (RECs)	5
8	Inferences	6

List of Tables and Figures

S. No.	List of Tables and Figures	Page No.
I	List of Tables	
Table-1	Volume of Short-term Transactions of Electricity in India	8
Table-2	Percentage Share of Electricity Transacted by Trading Licensees	10
Table-3	Price of Electricity Transacted through Traders	11
Table-4	Price of Electricity Transacted through Traders (Time-wise)	11
Table-5	Price of Electricity Transacted in Day Ahead Market through Power Exchanges	11
Table-6	Price of Electricity Transacted in Real Time Market through Power Exchanges	11
Table-7	Volume and Price of Electricity in Term Ahead Market of IEX	11
Table-8	Volume and Price of Electricity in Term Ahead Market of PXIL	11
Table-9	Price of Electricity Transacted through DSM	11
Table-10	Volume of Electricity Sold through Bilateral	13
Table-11	Volume of Electricity Purchased through Bilateral	14
Table-12	Volume of Electricity Sold in Day Ahead Market through Power Exchanges	15
Table-13	Volume of Electricity Purchased in Day Ahead Market through Power Exchanges	17
Table-14	Volume of Electricity Sold in Real Time Market through Power Exchanges	18
Table-15	Volume of Electricity Purchased in Real Time Market through Power Exchanges	20
Table-16	Volume of Electricity Under drawal through DSM	21
Table-17	Volume of Electricity Over drawal through DSM	24
Table-18	Total Volume of Net Short-term Transactions of Electricity (Regional Entity-wise)	27
Table-19	Details of Congestion in Power Exchanges	30
Table-20	Volume of Short-term Transactions of Electricity in India (Day-wise)	31
Table-21	Price of Electricity in Day Ahead Market and DSM (Day-wise)	32
Table-22	Price of Electricity in Real Time Market (Day-wise)	33
Table-23	Volume of Short-term Transactions of Electricity (Regional Entity-wise)	34
II	List of Figures	
Figure-1	Volume of Various Kinds of Electricity Transactions in Total Electricity Generation	8
Figure-2	Volume of Short-term Transactions of Electricity	8
Figure-3	Volume transacted in different markets segments on Power Exchanges	9
Figure-4	Volume of Short-term Transactions of Electricity (Day-wise)	9
Figure-5	Percentage Share of Electricity Transacted by Trading Licensees	10
Figure-6	Price of Short-term Transactions Electricity	12
Figure-7	Price of Short-term Transactions Electricity (Day-wise)	12

Abbreviations

Abbreviation	Expanded Version
ABSP_ANTP	Acme Bhiwadi Solar Power Private Limited, Anantpur
ACBIL	ACB (India) Limited
ACP	Area Clearing Price
ACV	Area Clearing Volume
ACME_SLR	ACME Solar Power Project
ACME_RUMS	Acme Rewa Ultra Mega Solar Project
ADANI GREEN	Adani Green Energy Limited
ADY1_PVGD	Adyah Solar Energy Pvt Ltd., Block 1 Pavagada Solar Park
ADY2_PVGD	Adyah Solar Energy Pvt Ltd., Block 2 Pavagada Solar Park
ADY3_PVGD	Adyah Solar Energy Pvt Ltd., Block 3 Pavagada Solar Park
ADY6_PVGD	Adyah Solar Energy Pvt Ltd., Block 6 Pavagada Solar Park
ADY10_PVGD	Adyah Solar Energy Pvt Ltd., Block 10 Pavagada Solar Park
ADY13_PVGD	Adyah Solar Energy Pvt Ltd., Block 13 Pavagada Solar Park
AGEMPL BHUJ	Adani Green Energy (MP) Ltd., Bhuj
AHSP_ANTP	Acme Hisar Solar Power Private Limited, Anantpur
AKS_PVGD	ACME Kurukshetra Solar Energy Pvt. Ltd
AKSP_ANTP	Acme Karnal Solar Power Private Limited, Anantpur
AMPS Hazira	Arcelor Mittal Nippon Steel, Hazira
APTEL	Appellate Tribunal for Electricity
ARERJL_SLR	Adani Renewable Energy Park Rajasthan Ltd.
ARINSUM_RUMS	Solenergi Rewa Ultra Mega Solar Project
ARS_PVGD	ACME REWARI Solar Power Pvt Ltd.
AVAADA1_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 1
AVAADA2_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 2
AZURE_ANTP	Azure Power, Anantpur
AZURE_PVGD	Azure Power, Pavagada
AZURE_SLR	Azure Power Solar Power Project
AZURE34_SLR	Azure Power 34 Pvt. Ltd. Solar Power Project
BALCO	Bharat Aluminum Company Limited
BARC	Bhabha Atomic Research Centre
BBMB	Bhakra Beas Management Board
BETAM_TCN	Betam Wind Energy Private Limited, Tuticorin
BHADRAVATHI HVDC	Bhadravathi High Voltage Direct Current Link
BRBCL	Bhartiya Rail Bijlee Company Limited
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPL	Coastal Gujarat Power Limited
CHUKHA HEP	Chhukha Hydroelectric Project, Bhutan
CHUZACHEN HEP	Chuzachen Hydro Electric Power Project
CLEAN_SLR	Clean Solar Power Pvt. Ltd
COASTGEN	Coastal Energen Private Limited
DAGACHU	Dagachhu Hydro Power Corporation
DAM	Day Ahead Market
DB POWER	Diligent Power Pvt. Ltd.
DCPP	Donga Mahua Captive Power Plant
DGEN MEGA POWER	DGEN Mega Power Project
DHARIWAL POWER	Dhariwal Power Station
DIKCHU HEP	Dikchu Hydro-electric Project, Sikkim

DOYANG HEP	Doyang Hydro Electric Project
DSM	Deviation Settlement Mechanism
DVC	Damodar Valley Corporation
EMCO	EMCO Energy Limited
ESSAR POWER	Essar Power Limited
ESSAR STEEL	Essar Steel Ltd
FORTUM1_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 1
FORTUM2_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 2
FRV_ANTP	Fotowatio Renewable Ventures, Anantapur
FRV_NPK	Fotowatio Renewable Ventures, N P Kunta
GIWEL_BHUJ	Green infra wind energy Limited, Bhuj
GIWEL_TCN	Green Infra Wind Energy Limited, Tuticorin
GMR CHHATTISGARH	GMR Chhattisgarh Energy Limited
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
HVDC ALPD	Alipurduar High Voltage Direct Current Link
HVDC CHAMPA	Champa-Kurukshetra High Voltage Direct Current Link
HVDC PUS	Pasauli High Voltage Direct Current Link
HVDC RAIGARH	Raigarh-Pugalur High Voltage Direct Current Link
IEX	Indian Energy Exchange Limited
IGSTPS	Indira Gandhi Super Thermal Power Station Jhajjar
IL&FS	Infrastructure Leasing & Financial Services Limited
INOX_BHUJ	INOX Wind Limited, Bhuj, Gujarat
J&K	Jammu & Kashmir
JAYPEE NIGRIE	Jaypee Nigrie Super Thermal Power Project
JHABUA POWER MP	Jhabua Thermal Power Project
JINDAL POWER	Jindal Power Limited
JINDAL STAGE-II	Jindal Power Ltd Stage II
JITPL	Jindal India Thermal Power Ltd.
JORETHANG	Jorethang Loop Hydroelectric Power Project
KAPP 3&4	Kakrapar Atomic Power Station Unit 3 & 4
KARCHAM WANGTOO	Karcham Wangtoo H.E. Project
KORBA WEST POWER	Korba West Power Company Limited
KOTESHWAR	Koteshwar Hydro Power project
KREDL_PVGD	Karnataka Renewable Energy Development Ltd, Pavagada
KSK MAHANADI	KSK Mahanadi Power Ltd
KSMPL_SLR	Kilaj Solar (Maharashtra) Private Limited
KURICHU HEP	Kurichhu Hydro-electric Power Station, Bhutan
LANCO_AMK	Lanco Amarkantak Power Private Limited
LANCO BUDHIL	Lanco Budhil Hydro Power Private Limited
LANCO KONDAPALLY	Lanco Kondapally Power Private Limited
LOKTAK	Loktak Power Project
MAHINDRA_RUMS	Mahindra Rewa Ultra Mega Solar Project
MAHOBASLR	Mahoba Solar Power Project
MALANA	Malana Hydroelectric Plant
MANGDECHU HEP	Mangdechhu Hydroelectric Project, Mangdechhu River, Bhutan
Maruti Coal	Maruti Clean Coal and Power Limited
MB POWER	MB Power Ltd
MEENAKSHI	Meenakshi Energy Private Limited
MP	Madhya Pradesh
MTPS II	Muzaffarpur Thermal Power Station – Stage II

MYTRAH_TCN	Mytrah Energy (India) Private Limited, Tuticorin
Mus	Million Units
NAPP	Narora Atomic Power Plant
NEEPCO	North Eastern Electric Power Corporation Limited
NEP	Nepal
NFL	National Fertilisers Limited
NHPC STATIONS	National Hydro Electric Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLC	Neyveli Lignite Corporation Limited
NLDC	National Load Dispatch Centre
NPGC	Nabinagar Power Generating Company (Pvt.) Limited
NSPCL	NTPC - SAIL Power Company Private Limited
NTECL Vallur	NTPC Tamil Nadu Energy Company Limited Vallur
NTPC_ANTP	NTPC Anantapur
NTPC STATIONS	National Thermal Power Corporation Ltd. Stations
NTPL	NLC Tamil Nadu Power Limited
NVVN	NTPC Vidyut Vyapar Nigam Limited
ONGC Platana	ONGC Tripura Power Company
OPGC	Odisha Power Generation Corporation
ORANGE_TCN	Orange Renewable Power Pvt. Ltd, Tuticorin
OSTRO	Ostro Energy Private Limited
OTC	Over The Counter
PARAM_PVGD	Parampujya Solar Energy Private Ltd
PARE HEP	Pare hydroelectric project, Arunachal Pradesh
PX	Power Exchange
PXIL	Power Exchange India Limited
RAIL	Indian Railways
RAMPUR HEP	Rampur Hydro Electric Power Project
RANGIT HEP	Rangit Hydroelectric power project
RANGANADI HEP	Ranganadi Hydro Electric Power Project, Arunachal Pradesh
RAP-B	Rajasthan Atomic Power Plant-B
RAP-C	Rajasthan Atomic Power Plant-C
REC	Renewable Energy Certificate
REGL	Raigarh Energy Generation Limited
RENEW_BHACHAU	ReNew Power Limited, Bhachau
RENEW_PVGD	ReNew Wind Energy (TN2) Private Limited
RENEW_SLR	Renew Solar
RENEW_SLR_BKN	Renew Solar Bikaner
RGPPL	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Dispatch Centre
RPREL	Raipur Energen Limited
RTC	Round The Clock
RTM	Real Time Market
Sasan UMPP	Sasan Ultra Mega Power Project
SB_SLR	Soft Bank Solar
SBG CLEANTECH_SLR	SBG Cleantech Ltd
SBG_NPK	SB Energy Solar Private Limited, NP Kunta
SBG_PVGD	SB Energy Solar Private Limited, Pavagada
SEMBCORP	Sembcorp Gayatri Power Ltd
SHREE CEMENT	Shree Cement Limited

SIMHAPURI	Simhapuri Energy Private Limited
SKS Power	SKS Power Generation Chhattisgarh Limited
SPECTRUM	Spectrum Power Generation Ltd
TALA HEP	Tala Hydroelectric Project, Bhutan
TASHIDENG HEP	Tashiding Hydro Electric Project, Sikkim
TATA_ANTP	TATA Power Anantapur
TATA_PVGD	Tata Power Renewable Energy Ltd
TATA_SLR	Tata Solar
TEESTA STG3	Teesta Stage 3 Hydro Power Project
TEHRI	Tehri Hydro Electric Power Project
TAM	Term Ahead Market
THERMAL POWERTECH	Thermal Powertech Corporation India Limited
URI-II	Uri-II Hydropower Project
VINDHYACHAL HVDC	Vindhyachal High Voltage Direct Current Link
YARROW_PVGD	Yarrow Infra Structure Private Ltd

1. Introduction

1.1. 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) 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 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 details of the report for the month of **July, 2020** are as under:

2. Volume of Short-term Transactions of Electricity

2.1. During July 2020, total electricity generation excluding generation from renewable and captive power plants in India was 108386.78 MUs (Table-1). Of the total electricity generation, 10.91% was transacted through short-term, comprising of 4.86% through Day Ahead Market (DAM) and Real Time Market (RTM) of power exchanges, followed by 4.08% through bilateral (through traders and term-ahead contracts on power exchanges and directly between distribution companies) and 1.97% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions (11828.14 MUs), the electricity transacted in DAM and RTM of power exchanges constitutes 44.57%, followed by 37.40% through bilateral (22.42% through traders and term-ahead contracts on power exchanges and 14.97% directly between distribution companies) and 18.03% through DSM (Table-1 & Figure-2). Daily volume of short-term transactions is shown in Table-20 & Figure-4.

2.3. Of the total volume of electricity transacted through power exchanges, 83.66% of the volume was transacted in DAM, followed by 14.64% in RTM and 1.69% in Term Ahead Market (TAM) (Figure-3).

2.4. 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-5. The volume of electricity transacted by the trading licensees includes bilateral transactions and the transactions undertaken through power exchanges. There were 34 trading licensees as on July 2020. In July 2020, 24 trading licensees were engaged in short term trading. Top 5 trading licensees had a share of 78.42% in the total volume traded by all the licensees. These are PTC India Ltd., GMR Energy Trading Ltd., Manikaran Power Ltd., Kreate Energy (I) Pvt. Ltd. and NTPC Vidyut Vyapar Nigam Ltd.

2.5. Herfindahl-Hirschman Index (HHI) has been used for measuring the competition among the trading licensees. Increase in the HHI generally indicates decrease in competition and increase of market concentration, and vice versa. The HHI below 0.15 indicates non-concentration, HHI between 0.15 and 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 0.2464 for the month of July 2020, which indicates moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX was 4486.70 MUs. No electricity transacted in the DAM of PXIL. The volume of total buy bids and sell bids was 5199.51 MUs and 9733.97 MUs respectively in IEX, while the same was 1.37 MUs and 7.35 MUs respectively in PXIL.

2.7. The volume of electricity transacted in the RTM of IEX and PXIL was 784.94 MUs and 0.43 MUs respectively. The volume of total buy bids and sell bids was 1009.99 MUs and 2126.12 MUs respectively in IEX, while the same was 0.44 MUs and 0.61 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.

2.8. The volume of electricity transacted in the TAM of IEX and PXIL was 62.45 MUs and 28.29 MUs respectively (Table-7 & Table-8).

3. Price of Short-term Transactions of Electricity

3.1. **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 ₹2.53/kWh, ₹5.12/kWh and ₹3.87/kWh respectively (Table-3). The weighted average sale prices were also computed for the electricity transacted during Round the Clock (RTC), Peak and Off-peak periods separately, and the sale prices were ₹3.93/kWh, ₹4.52/kWh and ₹3.77/kWh respectively (Table-4).

3.2. **Price of electricity transacted through Power Exchanges:** The minimum, maximum and weighted average prices for the electricity transacted in the DAM of IEX were ₹0.88/kWh, ₹5.17/kWh and ₹2.56/kWh respectively (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.19/kWh, ₹5.65/kWh and ₹2.67/kWh respectively. These prices in the RTM of PXIL were ₹2.60/kWh, ₹2.61/kWh and ₹2.61/kWh respectively (Table-6). The price of electricity transacted in the TAM of IEX and PXIL was ₹3.55/kWh and ₹3.27/kWh respectively (Table-7 and Table-8).

3.3. **Price of electricity transacted through DSM:** The minimum, maximum and average price of DSM was ₹0.00/kWh and ₹8.00/kWh ₹2.86/kWh respectively (Table-9).

3.4. The prices of electricity transacted through trading licensees, power exchanges and DSM and their comparison is shown in Table-21 & 22, Figure-6 & 7.

4. Trading Margin

4.1. As per the CERC (Procedure, Terms and Conditions for grant of trading licence and other related matters) Regulations 2020, the trading licensees are allowed to charge trading margin of not less than 0 paise/kWh and up to 7 paise/kWh. The weighted average trading margin charged by the trading licensees for bilateral transactions during the month was ₹0.022/kWh.

5. Volume of Short-term Transactions of Electricity (Regional Entity¹-Wise)

5.1. Of the total bilateral transactions, top 5 regional entities sold 51.29% of the volume, and these were Madhya Pradesh, Himachal Pradesh, Raipur Energen Limited, Tamil Nadu and Sembcorp Gayatri Power Ltd. Top 5 regional entities purchased 77.75% of the volume, and these were Punjab, Delhi, Haryana, Uttar Pradesh and Telangana (Table-10 & 11).

5.2. Of the total DAM transactions of power exchanges, top 5 regional entities sold 45.17% of the volume, and these were Teesta Stage 3 Hydro Power Project, Himachal Pradesh, Odisha, Jammu & Kashmir and Jaypee Nigrie Super Thermal Power Project. Top 5 regional entities purchased 57.94% of the volume, and these were Maharashtra, Telangana, Andhra Pradesh, Gujarat and Haryana (Table-12 & 13).

5.3. Of the total RTM transactions of power exchanges, top 5 regional entities sold 54.35% of the volume, and these were Jammu & Kashmir, Odisha, Neyveli Lignite Corporation Limited, Karnataka and Uttar Pradesh. Top 5 regional entities purchased 65.84% of the volume, and these were Telangana, Rajasthan, Andhra Pradesh, Haryana and Maharashtra (Table-14 & 15).

5.4. Of the total DSM transactions, top 5 regional entities under drew 23.11% of the volume, and these were Punjab, NHPC Stations, Tamil Nadu, NTPC Stations (Western Region) and Maharashtra (Table-16). Top 5 regional entities overdrew 25.86% of the volume, and these were Tala Hydroelectric Project-Bhutan, Rajasthan, Uttar Pradesh, Haryana and West Bengal (Table-17).

5.5. The total volume of net short-term transactions of electricity (Regional entity-wise) i.e. volume of net transactions through bilateral, power exchanges and DSM is shown in Table-18 & 23. Top 5 electricity selling regional entities were Himachal Pradesh, Madhya Pradesh, Teesta Stage 3 Hydro Power Project, Jammu & Kashmir, and Sembcorp Gayatri Power Ltd. Top 5 electricity purchasing regional entities were Punjab, Telangana, Haryana, Delhi and Uttar Pradesh.

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.

6. Congestion² on Inter-State Transmission Corridor for Day-Ahead Market and Real Time Market on Power Exchanges

6.1. The 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.

6.2. In the month of July 2020, congestion did not occur in the DAM of both IEX and PXIL. However, congestion occurred in the RTM of IEX. The details of congestion are shown in Table-19. The volume of electricity that could not be cleared due to congestion & other reasons and could not be transacted through power exchanges is the difference between unconstrained cleared volume and actual cleared volume.

6.3. During the month, the volume of electricity that could not be cleared in the RTM of IEX due to congestion was 0.01% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.07% in the RTM of IEX (Table-19).

7. Volume and Price of Renewable Energy Certificates (RECs)

7.1. 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

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.

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.

7.2. 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 was held on power exchanges in May, 2011.

7.3. There were no transactions of REC in the month of July, 2020 as the scheduled trading was postponed by four weeks by Hon'ble APTEL in matter of the CERC order fixing new floor and forbearance price for both Solar and Non-solar RECs.

8. Inferences:

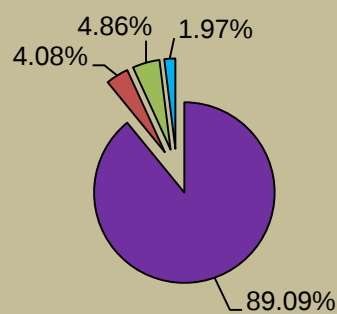
- (1) The percentage of short-term transactions of electricity to total electricity generation was 10.91%.
- (2) Of the total short-term transactions, the electricity transacted in DAM and RTM of power exchanges constitutes 44.57%, followed by 37.40% through bilateral (22.42% through traders and term-ahead contracts on power exchanges and 14.97% directly between distribution companies) and 18.03% through DSM.
- (3) Of the total volume transacted through the power exchanges, 83.66% of the volume was transacted in DAM, followed by 14.64% in RTM and 1.69% in TAM.
- (4) Top 5 trading licensees had a share of 78.42% in the total volume traded by all the trading licensees.
- (5) The Herfindahl Hirschman Index computed for the volume of electricity traded by trading licensees was 0.2464, indicating moderate concentration of market power.
- (6) The weighted average price of electricity transacted through trading licensees was ₹3.87/kWh.

- (7) The weighted average price of electricity transacted in DAM of IEX was ₹ 2.56/kWh. The weighted average price of electricity transacted in RTM of IEX and PXIL was ₹2.67/kWh and ₹2.61/kWh respectively.
- (8) The average price of electricity transacted through DSM was ₹2.86/kWh.
- (9) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.022/kWh. The trading margin charged during the month was in line with the Trading Margin regulations.
- (10) Top 5 electricity selling regional entities were Himachal Pradesh, Madhya Pradesh, Teesta Stage 3 Hydro Power Project, Jammu & Kashmir, and Sembcorp Gayatri Power Ltd. Top 5 electricity purchasing regional entities were Punjab, Telangana, Haryana, Delhi and Uttar Pradesh.
- (11) During July 2020, congestion did not occur in the DAM of both IEX and PXIL. However, there was congestion in the RTM of IEX. The volume of electricity that could not be cleared in the RTM of IEX due to congestion was 0.01% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.07% in the RTM of IEX.
- (12) There were no transactions of REC in the month of July, 2020 as the scheduled trading was postponed by four weeks by the order of Hon'ble APTEL.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA, JULY 2020				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	4423.13	37.40	4.08
	(i) Through Traders and PXs	2651.88	22.42	2.45
	(ii) Direct	1771.25	14.97	1.63
2	Through Power Exchanges	5272.07	44.57	4.86
	(i) IEX			
	(a) DAM	4486.70	37.93	4.14
	(b) RTM	784.94	6.64	0.72
	(ii) PXIL			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	0.43	0.004	0.0004
3	Through DSM	2132.94	18.03	1.97
	Total	11828.14	-	10.91
	Total Generation	108386.78	-	-

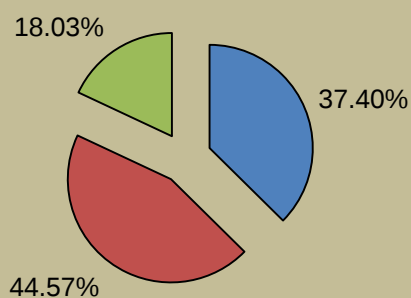
Source: NLDC

Figure-1: Volume of Various Kinds of Electricity Transactions in Total Electricity Generation, July 2020



■ Long-term ■ Bilateral ■ Through Power Exchanges ■ Through DSM

Figure-2: Volume of Short-term Transactions of Electricity, July 2020



■ Bilateral ■ Power Exchanges ■ DSM

Figure-3: Volume transacted in different markets segments on Power Exchanges, July 2020

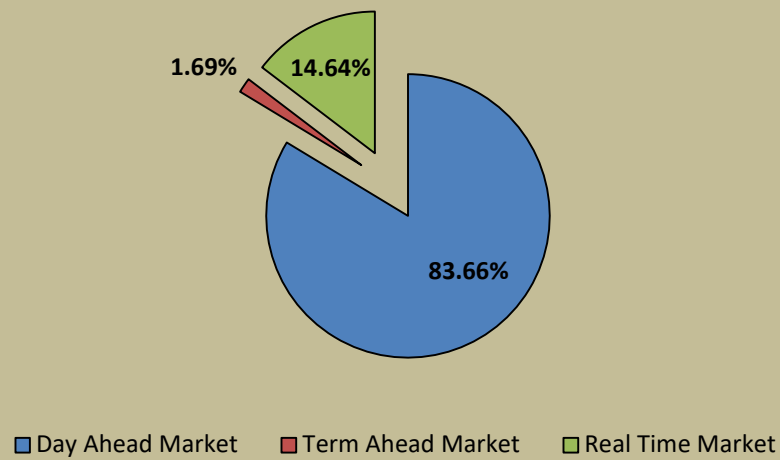


Figure-4: Volume of Short-term Transactions of Electricity, July 2020 (Day-wise)

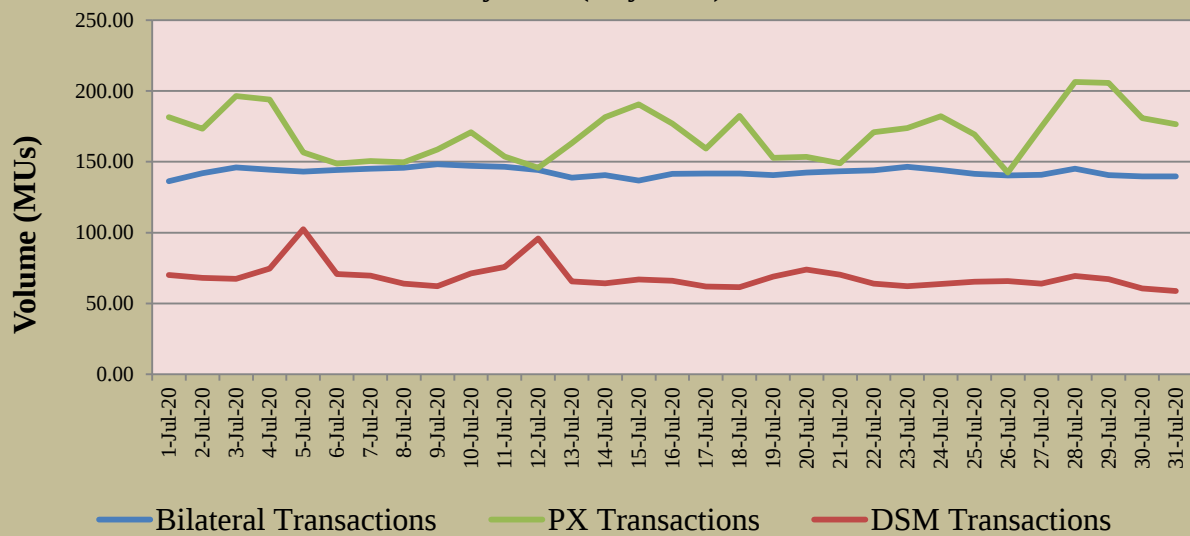


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, JULY 2020			
Sr.No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl-Hirschman Index
1	PTC India Ltd.	46.04	0.2120
2	GMR Energy Trading Ltd.	10.22	0.0104
3	Manikaran Power Ltd.	8.72	0.0076
4	Kreate Energy (I) Pvt. Ltd.	7.12	0.0051
5	NTPC Vidyut Vyapar Nigam Ltd.	6.32	0.0040
6	Arunachal Pradesh Power Corporation (P) ltd	4.92	0.0024
7	Tata Power Trading Company (P) Ltd.	4.92	0.0024
8	Adani Enterprises Ltd.	4.16	0.0017
9	Statkraft Markets Pvt. Ltd.	1.74	0.0003
10	National Energy Trading & Services Ltd.	1.14	0.0001
11	Essar Electric Power Development Corp. Ltd.	0.88	0.0001
12	RPG Power Trading Company Ltd.	0.84	0.0001
13	Knowledge Infrastructure Systems (P) Ltd	0.72	0.0001
14	Instinct Infra & Power Ltd.	0.65	0.0000
15	JSW Power Trading Company Ltd	0.44	0.0000
16	Gita Power & Infrastructure Private Limited	0.32	0.0000
17	IPCL Power Trading Pvt. Ltd.	0.24	0.0000
18	Jaiprakash Associates Ltd.	0.21	0.0000
19	Customized Energy Solutions India (P) Ltd.	0.12	0.0000
20	Abja Power Private Limited	0.10	0.0000
21	NHPC Limited	0.09	0.0000
22	Phillip Commodities India (P) Ltd.	0.05	0.0000
23	Shree Cement Ltd.	0.03	0.0000
24	NLC India Ltd.	0.01	0.0000
TOTAL		100.00%	0.2464
Top 5 trading licensees		78.42%	
<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>			
<i>Note 2: Volume of electricity transacted by Global Energy Ltd is not included.</i>			
<i>Source: Information submitted by trading licensees</i>			

Figure 5: Percentage Share of Electricity Transacted by Trading Licensees, July 2020

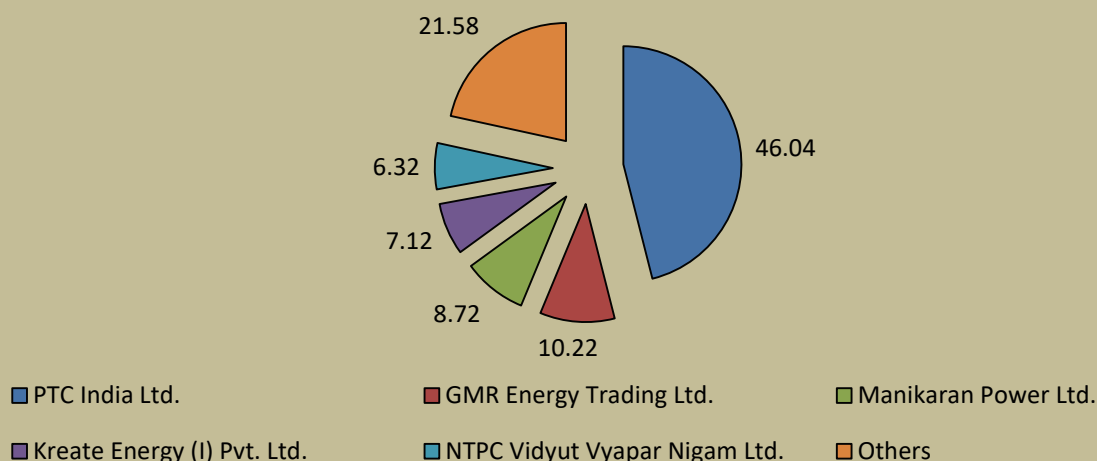


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JULY 2020		
Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.53
2	Maximum	5.12
3	Weighted Average	3.87

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JULY 2020		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	3.93
2	PEAK	4.52
3	OFF PEAK	3.77

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JULY 2020			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	0.88	--
2	Maximum	5.17	--
3	Weighted Average	2.56	--

Source: Information submitted by IEX and PXIL

Table-6: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JULY 2020			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	0.19	2.60
2	Maximum	5.65	2.61
3	Weighted Average	2.67	2.61

Source: Information submitted by IEX and PXIL

Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JULY 2020			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	6.06	3.29
2	Day Ahead Contingency Contracts	17.75	2.99
3	Daily Contracts	38.64	3.85
	Total	62.45	3.55

Source: IEX

Table-8: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JULY 2020			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	19.81	3.56
2	Any Day(s) Contracts	8.48	2.59
	Total	28.29	3.27

Source: PXIL

Table-9: PRICE OF ELECTRICITY TRANSACTED THROUGH DSM, JULY 2020		
Sr.No	Item	Price in All India Grid (₹/kWh)
1	Minimum	0.00
2	Maximum	8.00
3	Average	2.86

Source: NLDC

Figure-6: Price of Short-term Transactions of Electricity, July 2020

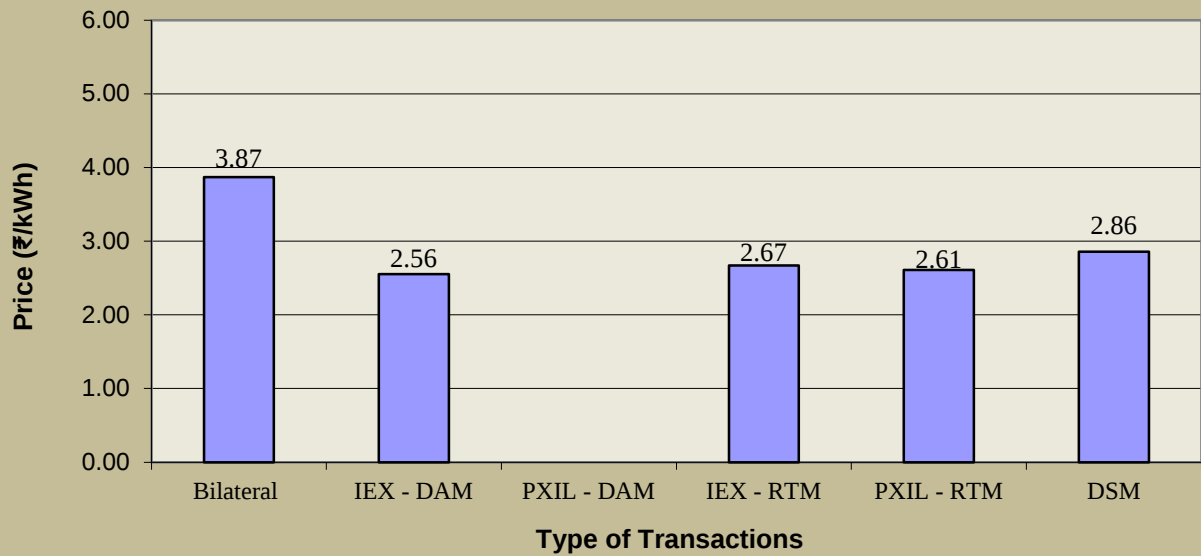
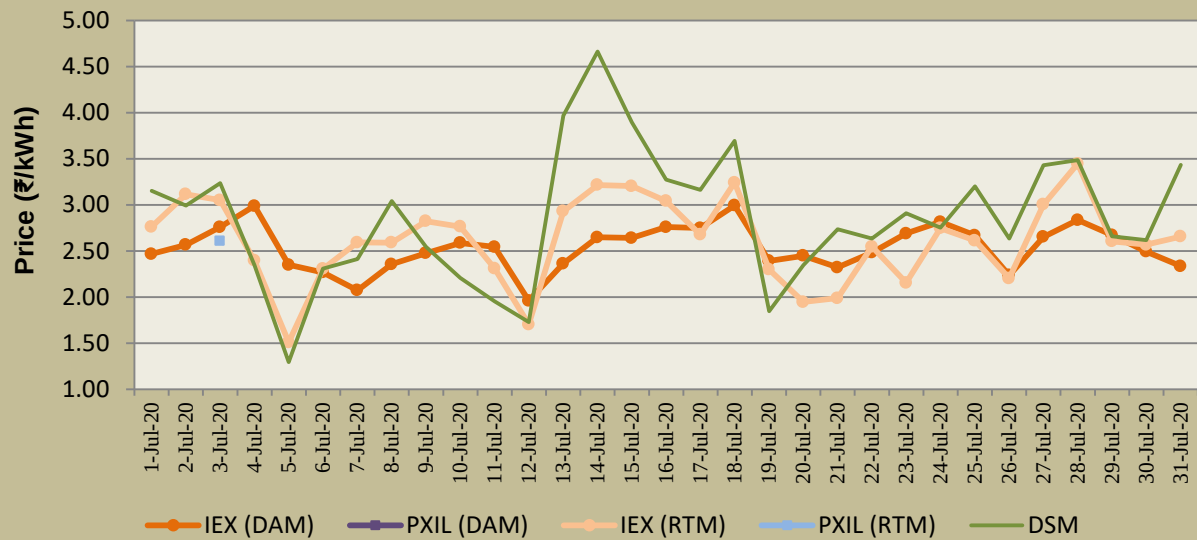


Figure-7: Price of Short-term Transactions of Electricity, July 2020 (Day-wise)



Note: In PXIL, no electricity transacted in DAM. Only on 3rd July 2020, the electricity transacted in RTM.

Table-10: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, JULY 2020		
Name of the Entity	Volume of Sale (MUs)	% of Volume
MP	760.35	17.17
HIMACHAL PRADESH	689.61	15.57
RPREL	292.89	6.61
TAMIL NADU	282.89	6.39
SEMBICORP	246.05	5.56
RKM POWER	224.45	5.07
DB POWER	207.26	4.68
UTTARAKHAND	200.88	4.54
MAHARASHTRA	149.45	3.37
JITPL	137.12	3.10
ADHUNIK POWER LTD	116.94	2.64
KERALA	108.50	2.45
RAJASTHAN	90.55	2.04
DAGACHU	90.22	2.04
DGEN MEGA POWER	83.28	1.88
CHUZACHEN HEP	62.46	1.41
EMCO	56.09	1.27
GUJARAT	55.31	1.25
ONGC PALATANA	52.23	1.18
J & K	45.91	1.04
MEGHALAYA	40.21	0.91
AD HYDRO	38.38	0.87
DVC	36.92	0.83
JAYPEE NIGRIE	33.88	0.76
KARNATAKA	32.06	0.72
ARUNACHAL PRADESH	30.96	0.70
SKS POWER	30.68	0.69
GMR KAMALANGA	28.06	0.63
ANDHRA PRADESH	27.25	0.62
SIKKIM	27.08	0.61
MANIPUR	24.41	0.55
NAGALAND	19.68	0.44
SAINJ HEP	15.50	0.35
ESSAR POWER	15.30	0.35
BALCO	14.50	0.33
ODISHA	13.17	0.30
CHHATTISGARH	11.90	0.27
LANKO AMK	9.24	0.21
WEST BENGAL	8.05	0.18
MB POWER	5.87	0.13
TELANGANA	5.82	0.13
GOA	2.79	0.06
TRN ENERGY	1.34	0.03
BIHAR	0.85	0.02
HARYANA	0.80	0.02
MIZORAM	0.75	0.02
ACBIL	0.68	0.02
NTPC STATIONS-NER	0.57	0.01
NTPC STATIONS-ER	0.02	0.001
Total	4429.15	100.00
Volume Sold by top 5 Regional Entities	2271.79	51.29

Table-11: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, JULY 2020		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
PUNJAB	1429.83	32.33
DELHI	758.68	17.15
HARYANA	517.64	11.70
UTTAR PRADESH	501.09	11.33
TELANGANA	231.70	5.24
WEST BENGAL	172.36	3.90
BIHAR	149.47	3.38
BANGLADESH	135.01	3.05
JHARKHAND	116.94	2.64
ANDHRA PRADESH	90.75	2.05
MP	81.43	1.84
CHHATTISGARH	68.08	1.54
ASSAM	56.75	1.28
GOA	38.43	0.87
TAMIL NADU	19.58	0.44
ODISHA	15.46	0.35
MAHARASHTRA	12.73	0.29
NEPAL(NVVN)	11.41	0.26
RAJASTHAN	9.78	0.22
UTTARAKHAND	2.03	0.05
KARNATAKA	1.66	0.04
AMPS Hazira	1.34	0.03
GUJARAT	0.97	0.02
TOTAL	4423.13	100.00
Volume Purchased by top 5 Regional Entities	3438.94	77.75

Table-12: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JULY 2020

Name of the Entity	Volume of Sale (MUs)	% of Volume
TEESTA STG3	712.87	15.89
HIMACHAL PRADESH	431.31	9.61
ODISHA	348.92	7.78
J & K	277.70	6.19
JAYPEE NIGRIE	255.71	5.70
SEMBCORP	197.32	4.40
ASSAM	127.69	2.85
NEEPCO STATIONS	123.01	2.74
UTTAR PRADESH	120.80	2.69
AD HYDRO	106.90	2.38
DGEN MEGA POWER	101.22	2.26
KARCHAM WANGTOO	94.99	2.12
GUJARAT	94.22	2.10
JINDAL POWER	82.70	1.84
KARNATAKA	79.24	1.77
TASHIDENG HEP	77.00	1.72
DIKCHU HEP	76.41	1.70
JORETHANG	75.25	1.68
RPREL	72.42	1.61
SAINJ HEP	63.80	1.42
MEGHALAYA	62.39	1.39
DB POWER	59.75	1.33
GOA	57.15	1.27
MB POWER	50.90	1.13
ESSAR POWER	50.48	1.13
JHARKHAND	47.14	1.05
SIKKIM	43.46	0.97
EMCO	40.48	0.90
JINDAL STAGE-II	38.58	0.86
DELHI	36.54	0.81
BIHAR	34.93	0.78
ARUNACHAL PRADESH	34.73	0.77
ONGC PALATANA	31.11	0.69
MARUTI COAL	30.02	0.67
SPECTRUM	26.60	0.59
MP	24.24	0.54
CHUZACHEN HEP	24.02	0.54
CHANDIGARH	22.26	0.50
JITPL	21.07	0.47
MAHARASHTRA	20.72	0.46
ACBIL	18.92	0.42
GMR KAMALANGA	18.58	0.41
NTPC STATIONS-WR	16.32	0.36
JHABUA POWER_MP	15.43	0.34
MANIPUR	14.19	0.32
RAJASTHAN	13.06	0.29
WEST BENGAL	12.34	0.28
TELANGANA	11.88	0.26

TAMIL NADU	10.10	0.23
BALCO	9.82	0.22
KSMPL_SLR	7.92	0.18
HARYANA	7.80	0.17
ANDHRA PRADESH	7.03	0.16
CHHATTISGARH	6.83	0.15
LANCO BUDHIL	6.50	0.14
DVC	5.77	0.13
KERALA	3.37	0.08
DADRA & NAGAR HAVELI	3.16	0.07
MIZORAM	2.85	0.06
SKS POWER	2.77	0.06
ADANI GREEN	2.75	0.06
PUNJAB	2.70	0.06
IL&FS	2.65	0.06
NTPC STATIONS-ER	2.13	0.05
NTPC STATIONS-NER	1.73	0.04
NLC	1.62	0.04
NJPC	1.15	0.03
RAMPUR HEP	0.58	0.01
ADHUNIK POWER LTD	0.48	0.01
DHARIWAL POWER	0.21	0.005
Total	4486.70	100.00
Volume sold by top 5 Regional Entities	2026.50	45.17

Table-13: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JULY 2020		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
MAHARASHTRA	785.03	17.50
TELANGANA	673.12	15.00
ANDHRA PRADESH	421.85	9.40
GUJARAT	420.89	9.38
HARYANA	298.51	6.65
TAMIL NADU	265.00	5.91
UTTAR PRADESH	262.33	5.85
RAJASTHAN	222.28	4.95
UTTARAKHAND	198.77	4.43
AMPS Hazira	198.05	4.41
DELHI	131.32	2.93
BIHAR	124.98	2.79
PUNJAB	86.09	1.92
KARNATAKA	73.57	1.64
KERALA	54.52	1.22
ODISHA	49.21	1.10
ASSAM	46.90	1.05
CHHATTISGARH	42.32	0.94
WEST BENGAL	35.46	0.79
MP	34.06	0.76
HIMACHAL PRADESH	23.34	0.52
DADRA & NAGAR HAVELI	20.76	0.46
NAGALAND	6.90	0.15
MEGHALAYA	6.17	0.14
MANIPUR	2.56	0.06
CHANDIGARH	1.27	0.03
DAMAN AND DIU	0.88	0.02
JHARKHAND	0.53	0.01
GOA	0.04	0.001
TOTAL	4486.70	100.00
Volume purchased by top 5 Regional Entities	2599.40	57.94

Table-14: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, JULY 2020		
Name of the Entity	Volume of Sale (MUs)	% of Volume
J & K	180.75	23.02
ODISHA	72.85	9.28
NLC	59.31	7.55
KARNATAKA	57.87	7.37
UTTAR PRADESH	56.03	7.13
GUJARAT	45.83	5.84
SEBMCORP	29.59	3.77
DELHI	27.49	3.50
MAHARASHTRA	26.98	3.44
WEST BENGAL	24.87	3.17
SASAN UMPP	18.01	2.29
RPREL	15.22	1.94
DGEN MEGA POWER	14.58	1.86
NTPC STATIONS-SR	13.80	1.76
EMCO	11.06	1.41
DB POWER	10.15	1.29
JHABUA POWER_MP	8.52	1.08
NTPC STATIONS-ER	8.44	1.08
TELANGANA	7.62	0.97
TEESTA STG3	7.40	0.94
ASSAM	7.20	0.92
JHARKHAND	6.87	0.88
SIKKIM	6.30	0.80
HIMACHAL PRADESH	6.17	0.79
MP	5.45	0.69
BALCO	5.12	0.65
ONGC PALATANA	5.07	0.65
ESSAR POWER	4.90	0.62
JINDAL STAGE-II	4.74	0.60
NTPC STATIONS-WR	3.95	0.50
RAJASTHAN	3.63	0.46
JINDAL POWER	3.35	0.43
MARUTI COAL	2.99	0.38
BIHAR	2.71	0.34
CHHATTISGARH	2.66	0.34
NSPCL	2.19	0.28
NEEPCO STATIONS	2.18	0.28
GMR KAMALANGA	1.91	0.24
RGPPL (DABHOL)	1.58	0.20
MEGHALAYA	1.19	0.15
HARYANA	1.18	0.15
TRIPURA	1.02	0.13
ACBIL	0.82	0.10
JORETHANG	0.71	0.09
NPGC	0.65	0.08
AD HYDRO	0.61	0.08
TASHIDENG HEP	0.59	0.08
CHANDIGARH	0.46	0.06
MB POWER	0.46	0.06

NTPC STATIONS-NR	0.43	0.05
BRBCL,NABINAGAR	0.43	0.05
NTPC STATIONS-NER	0.38	0.05
SKS POWER	0.37	0.05
SPECTRUM	0.29	0.04
DVC	0.14	0.02
KERALA	0.10	0.01
DHARIWAL POWER	0.09	0.01
TAMIL NADU	0.05	0.01
KARCHAM WANGTOO	0.03	0.004
IL&FS	0.01	0.001
PUNJAB	0.01	0.001
Total	785.36	100.00
Volume sold by top 5 Regional Entities	426.81	54.35

Table-15: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JULY 2020		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
TELANGANA	185.39	23.61
RAJASTHAN	154.18	19.63
ANDHRA PRADESH	80.38	10.23
HARYANA	49.88	6.35
MAHARASHTRA	47.29	6.02
DELHI	40.11	5.11
UTTAR PRADESH	34.59	4.40
CHHATTISGARH	29.09	3.70
WEST BENGAL	25.70	3.27
ASSAM	22.31	2.84
TAMIL NADU	18.02	2.30
BIHAR	17.39	2.21
GUJARAT	13.75	1.75
TEESTA STG3	12.63	1.61
ESSAR POWER	8.82	1.12
NAGALAND	8.56	1.09
KERALA	6.04	0.77
ODISHA	5.43	0.69
KARNATAKA	4.65	0.59
JORETHANG	3.92	0.50
MEGHALAYA	2.32	0.30
TRIPURA	2.12	0.27
DVC	2.11	0.27
PUNJAB	2.01	0.26
DADRA & NAGAR HAVELI	1.91	0.24
JHARKHAND	1.81	0.23
UTTARAKHAND	1.34	0.17
JINDAL STAGE-II	0.88	0.11
MANIPUR	0.65	0.08
AMPS Hazira	0.55	0.07
SIKKIM	0.50	0.06
JINDAL POWER	0.48	0.06
MP	0.38	0.05
HIMACHAL PRADESH	0.08	0.01
MARUTI COAL	0.08	0.01
TASHIDENG HEP	0.06	0.01
TOTAL	785.36	100.00
Volume purchased by top 5 Regional Entities	517.11	65.84

Table-16: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, JULY 2020		
Name of the Entity	Volume of Under drawal (MUs)	% of Volume
PUNJAB	121.40	5.46
NHPC STATIONS	110.35	4.97
TAMIL NADU	103.04	4.64
NTPC STATIONS-WR	96.69	4.35
MAHARASHTRA	82.07	3.69
KARNATAKA	81.48	3.67
MP	79.04	3.56
RAJASTHAN	72.34	3.26
KURICHU HEP	72.34	3.26
GUJARAT	71.89	3.24
UTTAR PRADESH	69.72	3.14
TELANGANA	69.64	3.13
CHUKHA HEP	66.23	2.98
BIHAR	64.83	2.92
J & K	59.32	2.67
HARYANA	54.64	2.46
SASAN UMPP	54.39	2.45
ANDHRA PRADESH	53.31	2.40
DELHI	49.65	2.23
NTPC STATIONS-NR	46.25	2.08
ODISHA	37.28	1.68
JHARKHAND	27.45	1.24
UTTARAKHAND	24.44	1.10
NTPC STATIONS-ER	22.42	1.01
DVC	22.35	1.01
NTPC STATIONS-SR	21.45	0.97
GIWEL_BHUJ	20.57	0.93
ESSAR STEEL	20.22	0.91
CHHATTISGARH	19.36	0.87
HIMACHAL PRADESH	16.96	0.76
NLC	16.38	0.74
BBMB	15.44	0.69
JINDAL STAGE-II	14.66	0.66
WEST BENGAL	14.51	0.65
KARCHAM WANGTOO	13.06	0.59
TATA_PVG	10.88	0.49
GIWEL_TCN	10.63	0.48
OSTRO	10.58	0.48
NEEPCO STATIONS	10.29	0.46
TRIPURA	10.22	0.46
GMR CHATTISGARH	9.22	0.41
MEGHALAYA	9.11	0.41
JINDAL POWER	9.02	0.41
PONDICHERRY	8.62	0.39
NJPC	8.39	0.38
MYTRAH_TCN	8.10	0.36
RENEW_BHACHAU	8.01	0.36
ORANGE_TCN	7.41	0.33
AGEMPL BHUJ	7.18	0.32
CHANDIGARH	7.18	0.32
JAYPEE NIGRIE	6.98	0.31
ASSAM	6.88	0.31
SBG_NPK	6.82	0.31
GOA	6.75	0.30
TEESTA HEP	6.61	0.30
CLEAN_SLR	6.09	0.27
MAHINDRA_RUMS	6.07	0.27

MAITHON POWER LTD	5.87	0.26
NAPP	5.82	0.26
CGPL	5.77	0.26
INOX_BHUI	5.70	0.26
SEBICORP	5.61	0.25
ARERJL_SLR	5.56	0.25
MANGDECHU HEP	5.55	0.25
RENEW_SLR_BKN	5.32	0.24
MB POWER	5.30	0.24
KERALA	5.27	0.24
ADHUNIK POWER LTD	5.24	0.24
ARINSUM_RUMS	5.23	0.24
ACME_RUMS	5.20	0.23
DIKCHU HEP	4.74	0.21
KSK MAHANADI	4.41	0.20
BANGLADESH	4.28	0.19
AD HYDRO	4.22	0.19
FORTUM2_PVGD	4.14	0.19
AVAADA1_PVGD	4.07	0.18
AZURE_SLR	4.03	0.18
PARAM_PVGD	3.94	0.18
TATA_SLR	3.93	0.18
EMCO	3.83	0.17
TEHRI	3.82	0.17
LANKO_AMK	3.75	0.17
AVAADA2_PVGD	3.64	0.16
DGEN MEGA POWER	3.62	0.16
NAGALAND	3.57	0.16
BARC	3.50	0.16
TASHIDENG HEP	3.43	0.15
ARUNACHAL PRADESH	3.35	0.15
DADRA & NAGAR HAVELI	3.23	0.15
TEESTA STG3	3.20	0.14
NTPC_ANTP	3.18	0.14
ACBIL	3.14	0.14
AZURE34_SLR	3.12	0.14
BETAM_TCN	3.06	0.14
SB_SLR	3.04	0.14
MIZORAM	3.02	0.14
RANGANADI HEP	2.89	0.13
DB POWER	2.80	0.13
NPGC	2.78	0.12
RAIL	2.68	0.12
BRBCL,NABINAGAR	2.57	0.12
RKM POWER	2.51	0.11
KOTESHWAR	2.50	0.11
SIKKIM	2.45	0.11
NSPCL	2.39	0.11
FORTUM1_PVGD	2.32	0.10
ACME_SLR	2.24	0.10
SBG_PVGD	2.21	0.10
AZURE_PVGD	2.15	0.10
MANIPUR	2.13	0.10
SKS POWER	2.04	0.09
TATA_ANTP	2.00	0.09
TRN ENERGY	1.94	0.09
NEPAL(NVVN)	1.90	0.09
GMR KAMALANGA	1.65	0.07
NTPL	1.60	0.07
KSMPL_SLR	1.58	0.07
RAP B	1.45	0.07

ADY6_PVGD	1.42	0.06
RAMPUR HEP	1.41	0.06
JITPL	1.40	0.06
NTPC STATIONS-NER	1.40	0.06
FRV_NPK	1.37	0.06
ADY3_PVGD	1.35	0.06
FRV_ANTP	1.33	0.06
YARROW_PVGD	1.30	0.06
ONGC PALATANA	1.24	0.06
AZURE_ANTP	1.23	0.06
BALCO	1.22	0.06
ADY1_PVGD	1.15	0.05
AHSP_ANTP	1.14	0.05
COASTGEN	1.13	0.05
ABSP_ANTP	1.11	0.05
AKSP_ANTP	1.09	0.05
ADY13_PVGD	1.09	0.05
ADY10_PVGD	1.05	0.05
DHARIWAL POWER	1.05	0.05
RENEW_PVGD	1.03	0.05
ESSAR POWER	1.02	0.05
MTPS II	0.99	0.04
ADY2_PVGD	0.96	0.04
RENEW_SLR	0.93	0.04
HVDC CHAMPA	0.88	0.04
RANGIT HEP	0.83	0.04
AKS_PVGD	0.83	0.04
DAMAN AND DIU	0.76	0.03
JHABUA POWER_MP	0.74	0.03
IL&FS	0.72	0.03
ARS_PVGD	0.66	0.03
CHUZACHEN HEP	0.63	0.03
THERMAL POWERTECH	0.60	0.03
KREDL_PVGD	0.55	0.02
RAP C	0.54	0.02
IGSTPS	0.48	0.02
BHADRAVATHI HVDC	0.45	0.02
PARE HEP	0.43	0.02
NETCL VALLUR	0.42	0.02
RGPPL (DABHOL)	0.40	0.02
SAINJ HEP	0.38	0.02
LOKTAK	0.37	0.02
SHREE CEMENT	0.32	0.01
VINDHYACHAL HVDC	0.23	0.01
DOYANG HEP	0.21	0.01
NFF	0.20	0.01
HVDC RAIGARH	0.17	0.01
HVDC PUS	0.12	0.01
HVDC ALPD	0.07	0.003
JORETHANG	0.06	0.003
TALA HEP	0.05	0.002
LANCO BUDHIL	0.04	0.002
DAGACHU	0.04	0.002
DCPP	0.01	0.0005
Total	2222.37	100.00
Volume Exported by top 5 Regional Entities	513.54	23.11

Table-17: VOLUME OF ELECTRICITY OVER DRAWAL (IMPORTED) THROUGH DSM, JULY 2020		
Name of the Entity	Volume of Over drawal (MUs)	% of Volume
TALA HEP	157.43	7.70
RAJASTHAN	121.13	5.93
UTTAR PRADESH	88.79	4.35
HARYANA	88.28	4.32
WEST BENGAL	72.77	3.56
NTPC STATIONS-ER	65.42	3.20
ANDHRA PRADESH	64.24	3.14
GUJARAT	63.92	3.13
NTPC STATIONS-WR	58.27	2.85
BIHAR	56.23	2.75
TELANGANA	53.06	2.60
NTPC STATIONS-NR	51.77	2.53
TAMIL NADU	46.62	2.28
MAHARASHTRA	45.16	2.21
MP	40.30	1.97
KARNATAKA	36.68	1.80
CGPL	34.65	1.70
CHHATTISGARH	33.85	1.66
PUNJAB	33.00	1.62
KERALA	31.69	1.55
HIMACHAL PRADESH	31.51	1.54
DVC	31.12	1.52
NTPC STATIONS-SR	29.72	1.45
TEESTA STG3	26.81	1.31
ASSAM	25.83	1.26
UTTARAKHAND	23.62	1.16
J & K	22.49	1.10
ESSAR STEEL	21.23	1.04
DELHI	19.87	0.97
ODISHA	17.40	0.85
JHABUA POWER_MP	17.26	0.84
RGPL (DABHOL)	16.65	0.81
NLC	15.62	0.76
GIWEL_BHUJ	14.72	0.72
MB POWER	14.51	0.71
EMCO	13.30	0.65
NHPC STATIONS	13.19	0.65
BALCO	12.80	0.63
GMR CHATTISGARH	12.75	0.62
NETCL VALLUR	12.32	0.60
GIWEL_TCN	12.29	0.60
JHARKHAND	11.65	0.57
NEPAL(NVVN)	10.22	0.50
DB POWER	10.16	0.50
MYTRAH_TCN	9.88	0.48
ORANGE_TCN	8.67	0.42
ESSAR POWER	8.57	0.42
TRIPURA	8.56	0.42
MANGDECHU HEP	8.38	0.41
RENEW_BHACHAU	8.11	0.40
JORETHANG	7.74	0.38
THERMAL POWERTECH	7.40	0.36
SBG_PVGD	7.17	0.35
CHANDIGARH	6.99	0.34
MAHINDRA_RUMS	6.73	0.33
AGEMPL BHUJ	6.46	0.32
OSTRO	6.42	0.31

IGSTPS	6.30	0.31
BRBCL,NABINAGAR	6.20	0.30
DAMAN AND DIU	6.12	0.30
RAP C	6.03	0.30
BANGLADESH	5.59	0.27
COASTGEN	5.53	0.27
NTPC STATIONS-NER	5.47	0.27
AD HYDRO	5.40	0.26
NPGC	5.40	0.26
DADRA & NAGAR HAVELI	5.28	0.26
JINDAL STAGE-II	5.15	0.25
TATA_PVGD	5.05	0.25
KSK MAHANADI	5.03	0.25
INOX_BHUJ	4.93	0.24
ACME_RUMS	4.91	0.24
KAPP 3&4	4.86	0.24
ARINSUM_RUMS	4.82	0.24
ARUNACHAL PRADESH	4.72	0.23
NTPL	4.63	0.23
BBMB	4.61	0.23
GOA	4.54	0.22
SEBMCORP	4.50	0.22
NTPC_ANTP	4.45	0.22
MAITHON POWER LTD	4.30	0.21
CLEAN_SLR	3.92	0.19
ADHUNIK POWER LTD	3.92	0.19
FORTUM2_PVGD	3.82	0.19
SBG_NPK	3.75	0.18
NAPP	3.75	0.18
DAGACHU	3.51	0.17
RAIL	3.38	0.17
ACME_SLR	3.36	0.16
RENEW_SLR_BKN	3.24	0.16
MTPS II	3.18	0.16
IL&FS	3.06	0.15
KARCHAM WANGTOO	3.00	0.15
SB_SLR	2.99	0.15
JITPL	2.99	0.15
MANIPUR	2.99	0.15
BETAM_TCN	2.94	0.14
SIKKIM	2.69	0.13
PONDICHERRY	2.65	0.13
SASAN UMPP	2.60	0.13
ACBIL	2.44	0.12
MEGHALAYA	2.44	0.12
AZURE_SLR	2.32	0.11
PARAM_PVGD	2.28	0.11
GMR KAMALANGA	2.21	0.11
ARERJL_SLR	2.17	0.11
JINDAL POWER	2.16	0.11
NSPCL	1.89	0.09
KORBA WEST POWER	1.87	0.09
TATA_ANTP	1.86	0.09
AVAADA2_PVGD	1.83	0.09
FORTUM1_PVGD	1.78	0.09
RENEW_PVGD	1.71	0.08
MIZORAM	1.59	0.08
AZURE34_SLR	1.53	0.07
TATA_SLR	1.51	0.07
LANCO BUDHIL	1.48	0.07
AKS_PVGD	1.43	0.07

NEEPCO STATIONS	1.42	0.07
TEHRI	1.39	0.07
AZURE_PVGD	1.38	0.07
ONGC PALATANA	1.38	0.07
DGEN MEGA POWER	1.36	0.07
AVAADA1_PVGD	1.32	0.06
KOTESHWAR	1.25	0.06
TRN ENERGY	1.23	0.06
RANGIT HEP	1.22	0.06
RKM POWER	1.20	0.06
TEESTA HEP	1.18	0.06
ADY3_PVGD	1.12	0.05
SKS POWER	1.12	0.05
ARS_PVGD	1.08	0.05
FRV_NPK	1.07	0.05
ADY6_PVGD	1.07	0.05
ABSP_ANTP	1.07	0.05
AHSP_ANTP	1.03	0.05
KREDL_PVGD	1.00	0.05
RENEW_SLR	1.00	0.05
YARROW_PVGD	0.99	0.05
FRV_ANTP	0.97	0.05
AKSP_ANTP	0.97	0.05
NJPC	0.95	0.05
ADY2_PVGD	0.92	0.05
JAYPEE NIGRIE	0.91	0.04
ADY10_PVGD	0.88	0.04
ADY1_PVGD	0.84	0.04
ADY13_PVGD	0.82	0.04
AZURE_ANTP	0.80	0.04
RAP B	0.80	0.04
TASHIDENG HEP	0.75	0.04
KSMPL_SLR	0.70	0.03
DHARIWAL POWER	0.62	0.03
MEENAKSHI	0.59	0.03
NAGALAND	0.59	0.03
LANKO KONDAPALLI	0.55	0.03
SAINJ HEP	0.52	0.03
NEP	0.49	0.02
LANKO_AMK	0.49	0.02
RAMPUR HEP	0.46	0.02
SIMHAPURI	0.40	0.02
DOYANG HEP	0.39	0.02
PARE HEP	0.31	0.02
DIKCHU HEP	0.30	0.01
SHREE CEMENT	0.27	0.01
NFF	0.24	0.01
LOKTAK	0.19	0.01
RANGANADI HEP	0.11	0.01
HVDC CHAMPA	0.09	0.00
HVDC ALPD	0.08	0.00
CHUZACHEN HEP	0.08	0.00
HVDC RAIGARH	0.03	0.001
DCPP	0.03	0.001
BHADRAVATHI HVDC	0.01	0.001
CHUKHA HEP	0.01	0.0004
HVDC PUS	0.005	0.0002
BARC	0.001	0.00004
TOTAL	2043.50	100.00
Volume Imported by top 5 Regional Entities	528.39	25.86

Table-18: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), JULY 2020		
S. No.	Name of the Entity	Total volume of net short-term transactions of electricity*
1	PUNJAB	1426.83
2	TELANGANA	1048.29
3	HARYANA	889.88
4	DELHI	836.31
5	UTTAR PRADESH	640.24
6	MAHARASHTRA	610.99
7	ANDHRA PRADESH	569.62
8	RAJASTHAN	327.79
9	WEST BENGAL	246.51
10	BIHAR	244.76
11	GUJARAT	232.28
12	AMPS Hazira	199.95
13	TALA HEP	157.38
14	BANGLADESH	136.32
15	CHHATTISGARH	132.57
16	JHARKHAND	49.47
17	NTPC STATIONS-ER	32.40
18	CGPL	28.89
19	DADRA & NAGAR HAVELI	21.56
20	NEPAL(NVVN)	19.73
21	RGPPL (DABHOL)	14.66
22	NETCL VALLUR	11.90
23	ASSAM	10.01
24	THERMAL POWERTECH	6.79
25	DAMAN AND DIU	6.24
26	IGSTPS	5.82
27	RAP C	5.50
28	NTPC STATIONS-NR	5.10
29	SBG_PVGD	4.95
30	KAPP 3&4	4.86
31	COASTGEN	4.39
32	GMR CHATTISGARH	3.54
33	BRBCL,NABINAGAR	3.20
34	NTPL	3.03
35	MANGDECHU HEP	2.84
36	MTPS II	2.20
37	NPGC	1.97
38	KORBA WEST POWER	1.87
39	MYTRAH_TCN	1.79
40	GIWEL_TCN	1.66
41	NTPC STATIONS-NER	1.39
42	NTPC_ANTP	1.27
43	ORANGE_TCN	1.26
44	ACME_SLR	1.12
45	ESSAR STEEL	1.01
46	RAIL	0.70
47	RENEW_PVGD	0.68
48	MAHINDRA_RUMS	0.65
49	KSK MAHANADI	0.63
50	AKS_PVGD	0.60
51	MEENAKSHI	0.59
52	LANKO KONDAPALLI	0.55
53	NEP	0.49
54	KREDL_PVGD	0.45
55	UTTARAKHAND	0.43
56	ARS_PVGD	0.42
57	SIMHAPURI	0.40
58	RANGIT HEP	0.39
59	DOYANG HEP	0.18

60	RENEW_BHACHAU	0.10
61	RENEW_SLR	0.07
62	NFF	0.04
63	HVDC ALPD	0.02
64	DCPP	0.02
65	ADY2_PVGD	-0.03
66	SB_SLR	-0.05
67	ABSP_ANTP	-0.05
68	SHREE CEMENT	-0.05
69	AHSP_ANTP	-0.11
70	BETAM_TCN	-0.12
71	HVDC PUS	-0.12
72	PARE HEP	-0.12
73	AKSP_ANTP	-0.12
74	TATA_ANTP	-0.14
75	HVDC RAIGARH	-0.15
76	ADY10_PVGD	-0.17
77	LOKTAK	-0.19
78	ADY3_PVGD	-0.23
79	VINDHYACHAL HVDC	-0.23
80	ADY13_PVGD	-0.27
81	ACME_RUMS	-0.29
82	FRV_NPK	-0.30
83	ADY1_PVGD	-0.31
84	YARROW_PVGD	-0.32
85	FORTUM2_PVGD	-0.32
86	IL&FS	-0.32
87	ADY6_PVGD	-0.35
88	FRV_ANTP	-0.36
89	ARINSUM_RUMS	-0.41
90	AZURE_ANTP	-0.43
91	BHADRAVATHI HVDC	-0.43
92	FORTUM1_PVGD	-0.54
93	TRIPURA	-0.56
94	RAP B	-0.64
95	AGEMPL BHUJ	-0.72
96	DHARIWAL POWER	-0.73
97	AZURE_PVGD	-0.77
98	INOX_BHUJ	-0.77
99	HVDC CHAMPA	-0.79
100	KOTESHWAR	-1.25
101	RAMPUR HEP	-1.53
102	MAITHON POWER LTD	-1.57
103	AZURE34_SLR	-1.59
104	PARAM_PVGD	-1.67
105	AZURE_SLR	-1.71
106	AVAADA2_PVGD	-1.82
107	TRN ENERGY	-2.04
108	NAPP	-2.07
109	RENEW_SLR_BKN	-2.07
110	CLEAN_SLR	-2.16
111	TATA_SLR	-2.42
112	TEHRI	-2.43
113	NSPCL	-2.69
114	ADANI GREEN	-2.75
115	AVAADA1_PVGD	-2.75
116	RANGANADI HEP	-2.78
117	SBG_NPK	-3.07
118	ARERJL_SLR	-3.39
119	BARC	-3.50
120	OSTRO	-4.16
121	MIZORAM	-5.03
122	LANCO BUDHIL	-5.06
123	TEESTA HEP	-5.42

124	NTPC STATIONS-SR	-5.53
125	TATA_PVGD	-5.83
126	GIWEL_BHUJ	-5.85
127	PONDICHERRY	-5.97
128	NAGALAND	-7.19
129	JHABUA POWER_MP	-7.43
130	NJPC	-8.59
131	KSMPL_SLR	-8.81
132	BBMB	-10.83
133	LANKO_AMK	-12.51
134	BALCO	-17.86
135	ACBIL	-21.14
136	CHANDIGARH	-21.64
137	GOA	-23.69
138	KERALA	-25.00
139	SPECTRUM	-26.89
140	DVC	-31.95
141	MARUTI COAL	-32.93
142	MANIPUR	-34.52
143	SKS POWER	-34.74
144	TAMIL NADU	-46.86
145	GMR KAMALANGA	-48.00
146	MB POWER	-48.00
147	JINDAL STAGE-II	-51.94
148	ESSAR POWER	-54.30
149	NTPC STATIONS-WR	-58.68
150	NLC	-61.68
151	ARUNACHAL PRADESH	-64.32
152	JORETHANG	-64.36
153	CHUKHA HEP	-66.22
154	SASAN UMPP	-69.80
155	KURICHU HEP	-72.34
156	SIKKIM	-76.11
157	SAINJ HEP	-79.16
158	TASHIDENG HEP	-80.21
159	DIKCHU HEP	-80.85
160	DAGACHU	-86.74
161	CHUZACHEN HEP	-87.03
162	ONGC PALATANA	-88.26
163	JINDAL POWER	-92.43
164	NHPC STATIONS	-97.15
165	EMCO	-98.16
166	MEGHALAYA	-101.98
167	KARCHAM WANGTOO	-105.09
168	ADHUNIK POWER LTD	-118.73
169	NEEPCO STATIONS	-134.07
170	KARNATAKA	-134.10
171	AD HYDRO	-144.71
172	JITPL	-156.60
173	DGEN MEGA POWER	-201.34
174	RKM POWER	-225.77
175	DB POWER	-269.80
176	JAYPEE NIGRIE	-295.65
177	RPREL	-380.53
178	ODISHA	-384.72
179	SEMBCORP	-474.07
180	J & K	-541.20
181	TEESTA STG3	-684.04
182	MP	-712.91
183	HIMACHAL PRADESH	-1089.12
* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchange and UI		
(-) indicates sale and (+) indicates purchase		

Table-19: DETAILS OF CONGESTION IN POWER EXCHANGES, JULY 2020					
	Details of Congestion	Day Ahead Market		Real Time Market	
		IEX	PXIL	IEX	PXIL
A	Unconstrained Cleared Volume (MUs)	4486.70	0.00	785.04	0.43
B	Actual Cleared Volume and hence scheduled (MUs)	4486.70	0.00	784.94	0.43
C	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.00	0.00	0.10	0.00
D	Volume of electricity that could not be cleared and hence not scheduled because of reasons other than congestion (MUs)	0.00	0.00	0.00	0.00
E	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.00%	0.00%	0.01%	0.00%
F	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	0.00%	0.00%	0.07%	0.00%
G	Congestion occurrence (%) time block wise				
	0.00 - 6.00 hours	0.00%	0.00%	0.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%
	18.00 - 24.00 hours	0.00%	0.00%	100.00%	0.00%
<i>*This power would have been scheduled had there been no congestion.</i>					
<i>Source: IEX, PXIL& NLDC</i>					

Table-20: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (DAY-WISE) (MUs), JULY 2020								
Date	Bilateral		Day Ahead Market[#]		Real Time Market[#]		Deviation Settlement (Over Drawl + Under Generation)	Total Electricity Generation (MU) as given at CEA Website*
	Through Traders and PXs**	Direct	IEX	PXIL	IEX	PXIL		
1-Jul-20	82.81	53.49	154.31	0.00	27.16	0.00	70.20	3652.03
2-Jul-20	87.51	54.49	141.49	0.00	31.77	0.00	68.20	3637.28
3-Jul-20	90.15	55.79	159.33	0.00	36.74	0.43	67.37	3613.41
4-Jul-20	87.85	56.52	168.33	0.00	25.63	0.00	74.56	3468.70
5-Jul-20	85.39	57.76	134.08	0.00	22.62	0.00	102.44	3116.72
6-Jul-20	87.10	57.09	132.52	0.00	16.24	0.00	70.80	3262.13
7-Jul-20	88.18	56.96	126.47	0.00	24.08	0.00	69.73	3316.56
8-Jul-20	89.43	56.45	126.54	0.00	23.20	0.00	64.00	3393.39
9-Jul-20	91.35	56.96	137.18	0.00	21.59	0.00	62.12	3482.06
10-Jul-20	89.80	57.39	148.02	0.00	22.91	0.00	71.26	3428.31
11-Jul-20	89.59	56.79	132.08	0.00	21.69	0.00	75.75	3297.93
12-Jul-20	87.50	56.72	114.05	0.00	31.77	0.00	95.81	3094.78
13-Jul-20	82.41	56.32	134.92	0.00	28.30	0.00	65.63	3441.07
14-Jul-20	83.94	56.77	149.55	0.00	32.05	0.00	64.18	3615.41
15-Jul-20	79.14	57.51	157.89	0.00	32.59	0.00	66.98	3603.47
16-Jul-20	83.90	57.65	155.97	0.00	21.01	0.00	65.98	3550.95
17-Jul-20	83.03	58.70	135.68	0.00	23.69	0.00	62.04	3602.01
18-Jul-20	83.50	58.18	154.07	0.00	28.42	0.00	61.49	3705.71
19-Jul-20	81.83	58.68	131.38	0.00	21.40	0.00	68.90	3513.96
20-Jul-20	85.15	57.33	135.30	0.00	18.22	0.00	73.87	3418.14
21-Jul-20	85.19	58.23	128.72	0.00	20.26	0.00	70.33	3306.15
22-Jul-20	85.14	58.96	138.04	0.00	32.84	0.00	63.93	3462.07
23-Jul-20	87.57	58.86	159.40	0.00	14.37	0.00	62.20	3522.72
24-Jul-20	85.43	58.78	167.07	0.00	15.15	0.00	63.87	3565.32
25-Jul-20	82.62	58.99	151.62	0.00	17.58	0.00	65.43	3563.95
26-Jul-20	81.18	59.27	118.25	0.00	24.12	0.00	65.81	3494.09
27-Jul-20	84.68	56.10	148.12	0.00	26.57	0.00	63.96	3668.33
28-Jul-20	88.68	56.35	163.55	0.00	42.69	0.00	69.42	3714.68
29-Jul-20	84.47	56.08	181.17	0.00	24.50	0.00	67.18	3628.24
30-Jul-20	83.60	56.04	155.15	0.00	25.72	0.00	60.58	3589.36
31-Jul-20	83.76	56.01	146.43	0.00	30.05	0.00	58.93	3657.85
Total	2651.88	1771.25	4486.70	0.00	784.94	0.43	2132.94	108386.78
Source: NLDC								
* Gross Electricity Generation excluding electricity generation from renewables and captive power plants.								
** The volume of bilateral through PXs represents the volume through term-ahead contracts.								
[#] Scheduled volume of all the bid areas.								

Table-21: PRICE OF ELECTRICITY IN DAY AHEAD MARKET AND DEVIATION SETTLEMENT MECHANISM (DAY-WISE)(₹/kWh), JULY 2020									
Market Segment	Day ahead market of IEX			Day ahead market of PXIL			Under Drawl/Over Drawl from the Grid (DSM)		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	All India Grid		
							Minimum Price	Maximum Price	Average Price**
1-Jul-20	1.00	3.60	2.47	--	--	--	0.00	7.65	3.15
2-Jul-20	1.00	3.60	2.57	--	--	--	0.00	7.31	2.99
3-Jul-20	1.99	4.15	2.76	--	--	--	0.00	6.67	3.23
4-Jul-20	1.80	4.93	2.99	--	--	--	0.00	6.73	2.35
5-Jul-20	0.90	4.00	2.35	--	--	--	0.00	5.47	1.30
6-Jul-20	0.88	4.01	2.27	--	--	--	0.00	6.53	2.31
7-Jul-20	0.90	3.80	2.07	--	--	--	0.00	7.62	2.41
8-Jul-20	2.00	3.50	2.36	--	--	--	0.00	8.00	3.04
9-Jul-20	2.01	3.25	2.48	--	--	--	0.00	6.61	2.54
10-Jul-20	2.00	3.63	2.59	--	--	--	0.00	6.64	2.21
11-Jul-20	1.80	4.02	2.54	--	--	--	0.00	6.26	1.95
12-Jul-20	0.90	3.20	1.96	--	--	--	0.00	6.10	1.73
13-Jul-20	1.80	3.46	2.36	--	--	--	0.00	8.00	3.97
14-Jul-20	1.80	4.04	2.65	--	--	--	1.04	8.00	4.66
15-Jul-20	1.80	4.11	2.64	--	--	--	0.00	8.00	3.90
16-Jul-20	1.95	4.30	2.76	--	--	--	0.00	8.00	3.27
17-Jul-20	1.25	5.00	2.75	--	--	--	0.00	8.00	3.16
18-Jul-20	2.00	5.17	2.99	--	--	--	0.00	8.00	3.69
19-Jul-20	1.00	3.96	2.39	--	--	--	0.00	5.16	1.85
20-Jul-20	1.80	3.64	2.45	--	--	--	0.00	6.60	2.35
21-Jul-20	1.60	3.19	2.32	--	--	--	0.00	7.64	2.74
22-Jul-20	1.80	3.46	2.48	--	--	--	0.00	4.87	2.63
23-Jul-20	1.80	3.61	2.69	--	--	--	0.00	6.66	2.91
24-Jul-20	1.80	4.20	2.81	--	--	--	0.00	7.01	2.75
25-Jul-20	2.00	4.11	2.67	--	--	--	0.00	7.32	3.20
26-Jul-20	1.50	3.20	2.24	--	--	--	0.00	6.91	2.63
27-Jul-20	1.80	4.17	2.65	--	--	--	0.00	7.66	3.43
28-Jul-20	2.01	4.25	2.83	--	--	--	0.00	8.00	3.48
29-Jul-20	1.80	4.05	2.67	--	--	--	0.00	6.00	2.66
30-Jul-20	1.70	3.37	2.49	--	--	--	0.00	8.00	2.62
31-Jul-20	1.00	3.16	2.34	--	--	--	0.00	8.00	3.43
	0.88[#]	5.17[#]	2.56	--	--	--	0.00[#]	8.00[#]	2.86
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									

Table-22: PRICE OF ELECTRICITY IN REAL TIME MARKET (DAY-WISE) (₹/kWh), JULY 2020						
Market Segment	Real Time market of IEX			Real Time market of PXIL		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Jul-20	1.00	3.96	2.76	--	--	--
2-Jul-20	2.42	4.30	3.11	--	--	--
3-Jul-20	1.75	4.50	3.05	2.60	2.61	2.61
4-Jul-20	1.40	3.49	2.40	--	--	--
5-Jul-20	0.50	2.45	1.51	--	--	--
6-Jul-20	0.30	3.94	2.31	--	--	--
7-Jul-20	0.40	3.93	2.59	--	--	--
8-Jul-20	0.80	3.71	2.59	--	--	--
9-Jul-20	0.20	3.74	2.82	--	--	--
10-Jul-20	1.00	3.80	2.76	--	--	--
11-Jul-20	0.20	3.73	2.31	--	--	--
12-Jul-20	1.12	2.39	1.70	--	--	--
13-Jul-20	1.50	4.00	2.93	--	--	--
14-Jul-20	2.01	4.50	3.21	--	--	--
15-Jul-20	2.48	4.00	3.20	--	--	--
16-Jul-20	1.50	4.30	3.04	--	--	--
17-Jul-20	0.75	4.50	2.68	--	--	--
18-Jul-20	2.20	5.65	3.24	--	--	--
19-Jul-20	0.20	4.00	2.30	--	--	--
20-Jul-20	0.20	3.16	1.95	--	--	--
21-Jul-20	0.20	3.11	1.99	--	--	--
22-Jul-20	1.90	3.70	2.55	--	--	--
23-Jul-20	0.19	3.30	2.16	--	--	--
24-Jul-20	1.50	4.25	2.75	--	--	--
25-Jul-20	1.50	3.66	2.61	--	--	--
26-Jul-20	0.20	3.50	2.20	--	--	--
27-Jul-20	1.50	4.80	3.00	--	--	--
28-Jul-20	2.53	4.65	3.45	--	--	--
29-Jul-20	1.50	4.20	2.60	--	--	--
30-Jul-20	1.50	3.29	2.57	--	--	--
31-Jul-20	1.02	3.50	2.66	--	--	--
	0.19[#]	5.65[#]	2.67	2.60[#]	2.61[#]	2.61
Source: IEX and PXIL						
* 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.						
# Maximum/Minimum in the month						

Table-23: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE) (MUs), JULY 2020										
Name of the Entity	Through Bilateral			Through Power Exchange (DAM + RTM)			Through DSM with Regional Grid			Total Net***
	Sale	Purchase	Net**	Sale	Purchase	Net**	Import (Over Drawl)	Export (Under Drawl)	Net**	
PUNJAB	0.00	1429.83	1429.83	2.70	88.10	85.39	33.00	121.40	-88.39	1426.83
HARYANA	0.80	517.64	516.84	8.98	348.39	339.41	88.28	54.64	33.63	889.88
RAJASTHAN	90.55	9.78	-80.77	16.68	376.46	359.77	121.13	72.34	48.78	327.79
DELHI	0.00	758.68	758.68	64.03	171.42	107.39	19.87	49.65	-29.77	836.31
U P	0.00	501.09	501.09	176.83	296.91	120.08	88.79	69.72	19.07	640.24
UTTARAKHAND	200.88	2.03	-198.85	0.00	200.10	200.10	23.62	24.44	-0.82	0.43
HIMACHAL PRADE	689.61	0.00	-689.61	437.49	23.43	-414.06	31.51	16.96	14.55	-1089.12
J & K	45.91	0.00	-45.91	458.45	0.00	-458.45	22.49	59.32	-36.83	-541.20
CHANDIGARH	0.00	0.00	0.00	22.72	1.27	-21.45	6.99	7.18	-0.19	-21.64
MP	760.35	81.43	-678.91	29.69	34.44	4.75	40.30	79.04	-38.75	-712.91
MAHARASHTRA	149.45	12.73	-136.72	47.71	832.32	784.61	45.16	82.07	-36.91	610.99
GUJARAT	55.31	0.97	-54.33	140.06	434.64	294.59	63.92	71.89	-7.97	232.28
CHHATTISGARH	11.90	68.08	56.17	9.49	71.40	61.91	33.85	19.36	14.49	132.57
GOA	2.79	38.43	35.64	57.15	0.04	-57.11	4.54	6.75	-2.22	-23.69
DAMAN AND DIU	0.00	0.00	0.00	0.00	0.88	0.88	6.12	0.76	5.36	6.24
DADRA & NAGAR H	0.00	0.00	0.00	3.16	22.67	19.51	5.28	3.23	2.05	21.56
ANDHRA P	27.25	90.75	63.50	7.03	502.22	495.20	64.24	53.31	10.93	569.62
KARNATAKA	32.06	1.66	-30.40	137.11	78.21	-58.89	36.68	81.48	-44.80	-134.10
KERALA	108.50	0.00	-108.50	3.47	60.56	57.09	31.69	5.27	26.41	-25.00
TAMIL NADU	282.89	19.58	-263.31	10.15	283.02	272.87	46.62	103.04	-56.42	-46.86
PONDICHERRY	0.00	0.00	0.00	0.00	0.00	0.00	2.65	8.62	-5.97	-5.97
TELANGANA	5.82	231.70	225.88	19.50	858.50	839.00	53.06	69.64	-16.58	1048.29
WEST BENGAL	8.05	172.36	164.31	37.22	61.16	23.94	72.77	14.51	58.26	246.51
ODISHA	13.17	15.46	2.29	421.77	54.64	-367.13	17.40	37.28	-19.88	-384.72
BIHAR	0.85	149.47	148.62	37.63	142.37	104.74	56.23	64.83	-8.60	244.76
JHARKHAND	0.00	116.94	116.94	54.01	2.34	-51.68	11.65	27.45	-15.79	49.47
SIKKIM	27.08	0.00	-27.08	49.76	0.50	-49.27	2.69	2.45	0.23	-76.11
DVC	36.92	0.00	-36.92	5.92	2.11	-3.81	31.12	22.35	8.77	-31.95
ARUNACHAL P	30.96	0.00	-30.96	34.73	0.00	-34.73	4.72	3.35	1.37	-64.32
ASSAM	0.00	56.75	56.75	134.90	69.21	-65.69	25.83	6.88	18.95	10.01
MANIPUR	24.41	0.00	-24.41	14.19	3.21	-10.98	2.99	2.13	0.86	-34.52
MEGHALAYA	40.21	0.00	-40.21	63.58	8.49	-55.09	2.44	9.11	-6.68	-101.98
MIZORAM	0.75	0.00	-0.75	2.85	0.00	-2.85	1.59	3.02	-1.43	-5.03
NAGALAND	19.68	0.00	-19.68	0.00	15.46	15.46	0.59	3.57	-2.98	-7.19
TRIPURA	0.00	0.00	0.00	1.02	2.12	1.09	8.56	10.22	-1.66	-0.56
NTPC STNS-NR	0.00	0.00	0.00	0.43	0.00	-0.43	51.77	46.25	5.52	5.10
NHPC STNS	0.00	0.00	0.00	0.00	0.00	0.00	13.19	110.35	-97.15	-97.15
NFF	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.20	0.04	0.04
RAIL	0.00	0.00	0.00	0.00	0.00	0.00	3.38	2.68	0.70	0.70
NEP	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.49	0.49
NAPP	0.00	0.00	0.00	0.00	0.00	0.00	3.75	5.82	-2.07	-2.07
RAP B	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.45	-0.64	-0.64
NJPC	0.00	0.00	0.00	1.15	0.00	-1.15	0.95	8.39	-7.44	-8.59
TEHRI	0.00	0.00	0.00	0.00	0.00	0.00	1.39	3.82	-2.43	-2.43
BBMB	0.00	0.00	0.00	0.00	0.00	0.00	4.61	15.44	-10.83	-10.83
RAP C	0.00	0.00	0.00	0.00	0.00	0.00	6.03	0.54	5.50	5.50
AD HYDRO	38.38	0.00	-38.38	107.51	0.00	-107.51	5.40	4.22	1.18	-144.71
IGSTPS	0.00	0.00	0.00	0.00	0.00	0.00	6.30	0.48	5.82	5.82
KOTESHWAR	0.00	0.00	0.00	0.00	0.00	0.00	1.25	2.50	-1.25	-1.25
KARCHAM WANGT	0.00	0.00	0.00	95.02	0.00	-95.02	3.00	13.06	-10.06	-105.09
SHREE CEMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.32	-0.05	-0.05
LANCO BUDHIL	0.00	0.00	0.00	6.50	0.00	-6.50	1.48	0.04	1.44	-5.06
RAMPUR HEP	0.00	0.00	0.00	0.58	0.00	-0.58	0.46	1.41	-0.95	-1.53
SAINJ HEP	15.50	0.00	-15.50	63.80	0.00	-63.80	0.52	0.38	0.13	-79.16
RENEW_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.93	0.07	0.07
AZURE_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.32	4.03	-1.71	-1.71
SB_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.99	3.04	-0.05	-0.05
ACME_SLR	0.00	0.00	0.00	0.00	0.00	0.00	3.36	2.24	1.12	1.12

AZURE34_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.53	3.12	-1.59	-1.59
TATA_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.51	3.93	-2.42	-2.42
RENEW_SLR_BKN	0.00	0.00	0.00	0.00	0.00	0.00	3.24	5.32	-2.07	-2.07
CLEAN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	3.92	6.09	-2.16	-2.16
ARERJL_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.17	5.56	-3.39	-3.39
KSMPL_SLR	0.00	0.00	0.00	7.92	0.00	-7.92	0.70	1.58	-0.88	-8.81
ADANI GREEN	0.00	0.00	0.00	2.75	0.00	-2.75	0.00	0.00	0.00	-2.75
NTPC STNS-WR	0.00	0.00	0.00	20.27	0.00	-20.27	58.27	96.69	-38.41	-58.68
BHADRAVATHI HVI	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.45	-0.43	-0.43
VINDHYACHAL HVI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	-0.23	-0.23
JINDAL POWER	0.00	0.00	0.00	86.05	0.48	-85.57	2.16	9.02	-6.86	-92.43
LANCO AMK	9.24	0.00	-9.24	0.00	0.00	0.00	0.49	3.75	-3.27	-12.51
NSPCL	0.00	0.00	0.00	2.19	0.00	-2.19	1.89	2.39	-0.50	-2.69
ACBIL	0.68	0.00	-0.68	19.75	0.00	-19.75	2.44	3.14	-0.70	-21.14
BALCO	14.50	0.00	-14.50	14.93	0.00	-14.93	12.80	1.22	11.57	-17.86
RGPPL (DABHOL)	0.00	0.00	0.00	1.58	0.00	-1.58	16.65	0.40	16.25	14.66
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	34.65	5.77	28.89	28.89
DCPP	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.02	0.02
EMCO	56.09	0.00	-56.09	51.54	0.00	-51.54	13.30	3.83	9.47	-98.16
ESSAR STEEL	0.00	0.00	0.00	0.00	0.00	0.00	21.23	20.22	1.01	1.01
KSK MAHANADI	0.00	0.00	0.00	0.00	0.00	0.00	5.03	4.41	0.63	0.63
ESSAR POWER	15.30	0.00	-15.30	55.38	8.82	-46.56	8.57	1.02	7.55	-54.30
JINDAL STAGE-II	0.00	0.00	0.00	43.31	0.88	-42.43	5.15	14.66	-9.51	-51.94
DB POWER	207.26	0.00	-207.26	69.90	0.00	-69.90	10.16	2.80	7.36	-269.80
DHARIWAL POWER	0.00	0.00	0.00	0.30	0.00	-0.30	0.62	1.05	-0.43	-0.73
JAYPEE NIGRIE	33.88	0.00	-33.88	255.71	0.00	-255.71	0.91	6.98	-6.07	-295.65
DGEN MEGA POWER	83.28	0.00	-83.28	115.80	0.00	-115.80	1.36	3.62	-2.26	-201.34
GMR CHATTISGARH	0.00	0.00	0.00	0.00	0.00	0.00	12.75	9.22	3.54	3.54
KORBA WEST POWER	0.00	0.00	0.00	0.00	0.00	0.00	1.87	0.00	1.87	1.87
MB POWER	5.87	0.00	-5.87	51.35	0.00	-51.35	14.51	5.30	9.21	-48.00
MARUTI COAL	0.00	0.00	0.00	33.01	0.08	-32.93	0.00	0.00	0.00	-32.93
SPECTRUM	0.00	0.00	0.00	26.89	0.00	-26.89	0.00	0.00	0.00	-26.89
JHABUA POWER_M	0.00	0.00	0.00	23.95	0.00	-23.95	17.26	0.74	16.52	-7.43
SASAN UMPP	0.00	0.00	0.00	18.01	0.00	-18.01	2.60	54.39	-51.79	-69.80
TRN ENERGY	1.34	0.00	-1.34	0.00	0.00	0.00	1.23	1.94	-0.70	-2.04
RKM POWER	224.45	0.00	-224.45	0.00	0.00	0.00	1.20	2.51	-1.32	-225.77
SKS POWER	30.68	0.00	-30.68	3.14	0.00	-3.14	1.12	2.04	-0.92	-34.74
BARC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	-3.50	-3.50
KAPP 3&4	0.00	0.00	0.00	0.00	0.00	0.00	4.86	0.00	4.86	4.86
HVDC CHAMPA	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.88	-0.79	-0.79
MAHINDRA_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	6.73	6.07	0.65	0.65
ARINSUM_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	4.82	5.23	-0.41	-0.41
OSTRO	0.00	0.00	0.00	0.00	0.00	0.00	6.42	10.58	-4.16	-4.16
ACME_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	4.91	5.20	-0.29	-0.29
RENEW_BHACHAU	0.00	0.00	0.00	0.00	0.00	0.00	8.11	8.01	0.10	0.10
GIWEL_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	14.72	20.57	-5.85	-5.85
INOX_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	4.93	5.70	-0.77	-0.77
AGEMPL BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	6.46	7.18	-0.72	-0.72
RPREL	292.89	0.00	-292.89	87.65	0.00	-87.65	0.00	0.00	0.00	-380.53
AMPS Hazira	0.00	1.34	1.34	0.00	198.60	198.60	0.00	0.00	0.00	199.95
HVDC RAIGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.17	-0.15	-0.15
NTPC STNS-SR	0.00	0.00	0.00	13.80	0.00	-13.80	29.72	21.45	8.27	-5.53
LANCO KONDAPAI	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.55	0.55
SIMHAPURI	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.40	0.40
MEENAKSHI	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.59	0.59
COASTGEN	0.00	0.00	0.00	0.00	0.00	0.00	5.53	1.13	4.39	4.39
THERMAL POWER	0.00	0.00	0.00	0.00	0.00	0.00	7.40	0.60	6.79	6.79
IL&FS	0.00	0.00	0.00	2.66	0.00	-2.66	3.06	0.72	2.34	-0.32
NLC	0.00	0.00	0.00	60.92	0.00	-60.92	15.62	16.38	-0.76	-61.68
SENBCORP	246.05	0.00	-246.05	226.91	0.00	-226.91	4.50	5.61	-1.11	-474.07
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	12.32	0.42	11.903	11.903
NTPL	0.00	0.00	0.00	0.00	0.00	0.00	4.63	1.60	3.03	3.03
AHSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.14	-0.11	-0.11
AKSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.97	1.09	-0.12	-0.12
ABSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.11	-0.05	-0.05

AZURE_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.23	-0.43	-0.43
TATA_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.86	2.00	-0.14	-0.14
FRV_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.97	1.33	-0.36	-0.36
NTPC_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	4.45	3.18	1.27	1.27
GIWEL_TCN	0.00	0.00	0.00	0.00	0.00	0.00	12.29	10.63	1.66	1.66
MYTRAH_TCN	0.00	0.00	0.00	0.00	0.00	0.00	9.88	8.10	1.79	1.79
FRV_NPK	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.37	-0.30	-0.30
ORANGE_TCN	0.00	0.00	0.00	0.00	0.00	0.00	8.67	7.41	1.26	1.26
BETAM_TCN	0.00	0.00	0.00	0.00	0.00	0.00	2.94	3.06	-0.12	-0.12
SBG_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	7.17	2.21	4.95	4.95
SBG_NPK	0.00	0.00	0.00	0.00	0.00	0.00	3.75	6.82	-3.07	-3.07
FORTUM1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.78	2.32	-0.54	-0.54
PARAM_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.28	3.94	-1.67	-1.67
YARROW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.99	1.30	-0.32	-0.32
TATA_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	5.05	10.88	-5.83	-5.83
RENEW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.71	1.03	0.68	0.68
AKS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.43	0.83	0.60	0.60
ARS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.66	0.42	0.42
AVAADA1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.32	4.07	-2.75	-2.75
ADY1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.15	-0.31	-0.31
ADY2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.96	-0.03	-0.03
ADY13_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.82	1.09	-0.27	-0.27
ADY3_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.35	-0.23	-0.23
ADY6_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.42	-0.35	-0.35
ADY10_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.88	1.05	-0.17	-0.17
AZURE_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.38	2.15	-0.77	-0.77
FORTUM2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	3.82	4.14	-0.32	-0.32
AVAADA2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.83	3.64	-1.82	-1.82
KREDL_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.55	0.45	0.45
NTPC STNS-ER	0.02	0.00	-0.02	10.57	0.00	-10.57	65.42	22.42	43.00	32.40
MAITHON POWER	0.00	0.00	0.00	0.00	0.00	0.00	4.30	5.87	-1.57	-1.57
NPGC	0.00	0.00	0.00	0.65	0.00	-0.65	5.40	2.78	2.62	1.97
ADHUNIK POWER L	116.94	0.00	-116.94	0.48	0.00	-0.48	3.92	5.24	-1.32	-118.73
CHUZACHEN HEP	62.46	0.00	-62.46	24.02	0.00	-24.02	0.08	0.63	-0.55	-87.03
RANGIT HEP	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.83	0.39	0.39
GMR KAMALANGA	28.06	0.00	-28.06	20.49	0.00	-20.49	2.21	1.65	0.56	-48.00
JITPL	137.12	0.00	-137.12	21.07	0.00	-21.07	2.99	1.40	1.59	-156.60
TEESTA HEP	0.00	0.00	0.00	0.00	0.00	0.00	1.18	6.61	-5.42	-5.42
DAGACHU	90.22	0.00	-90.22	0.00	0.00	0.00	3.51	0.04	3.47	-86.74
JORETHANG	0.00	0.00	0.00	75.96	3.92	-72.04	7.74	0.06	7.68	-64.36
NEPAL(NVVN)	0.00	11.41	11.41	0.00	0.00	0.00	10.22	1.90	8.32	19.73
BANGLADESH	0.00	135.01	135.01	0.00	0.00	0.00	5.59	4.28	1.31	136.32
HVDC PUS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	-0.12	-0.12
TEESTA STG3	0.00	0.00	0.00	720.27	12.63	-707.64	26.81	3.20	23.60	-684.04
DIKCHU HEP	0.00	0.00	0.00	76.41	0.00	-76.41	0.30	4.74	-4.44	-80.85
HVDC ALPD	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.02	0.02
TASHIDENG HEP	0.00	0.00	0.00	77.59	0.06	-77.53	0.75	3.43	-2.68	-80.21
BRBCL,NABINAGAR	0.00	0.00	0.00	0.43	0.00	-0.43	6.20	2.57	3.63	3.20
MTPS II	0.00	0.00	0.00	0.00	0.00	0.00	3.18	0.99	2.20	2.20
TALA HEP	0.00	0.00	0.00	0.00	0.00	0.00	157.43	0.05	157.38	157.38
CHUKHA HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.01	66.23	-66.22	-66.22
KURICHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.34	-72.34	-72.34
MANGDECHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	8.38	5.55	2.84	2.84
NTPC STNS-NER	0.57	0.00	-0.57	2.11	0.00	-2.11	5.47	1.40	4.07	1.39
NEEPCO STNS	0.00	0.00	0.00	125.20	0.00	-125.20	1.42	10.29	-8.87	-134.07
RANGANADI HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.11	2.89	-2.78	-2.78
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.21	0.18	0.18
ONGC PALATANA	52.23	0.00	-52.23	36.18	0.00	-36.18	1.38	1.24	0.15	-88.26
LOKTAK	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.37	-0.19	-0.19
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.43	-0.12	-0.12
Source: NLDC										
* in case of a state, the entities which are "selling" also include generators connected to state grid and the entities which are "buying" also include open access consumers.										
** (-) indicates sale and (+) indicates purchase,										
*** Total net includes net of transactions through bilateral, power exchange and DSM										