

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPËRATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़तुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 22nd Dec 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033

2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016

3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093

4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya

5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 21.12.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-दिसम्बर -2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 21st December 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day
A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	53074	51822	39119	18372	2502	164889
Peak Shortage (MW)	550	0	0	82	25	657
Energy Met (MU)	1033	1201	883	358	41	3517
Hydro Gen (MU)	109	43	64	35	12	263
Wind Gen (MU)	3	52	63		-	118
Solar Gen (MU)*	34.66	32.87	95.80	4.56	0.04	168
Energy Shortage (MU)	11.34	0.00	0.00	0.25	0.85	12.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54638	59518	44500	18912	2516	175089
Time Of Maximum Demand Met (From NLDC SCADA)	10:32	10:55	11:01	17:52	18:21	10:32

ii iiiuia	0.034	0.00	0.00	3.01	3.07	12.22	24.07	
. Power Sup	ply Position in States							
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energ
Region	States	Met during the	maximum	O.M.D.	Schedule	(MITT)	(3.633)	Shortag
U		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	6503	0	125.5	61.5	-2.2	30	0.00
	Harvana	6690	0	134.1	96.7	0.3	205	0.00
	Rajasthan	13760	0	255.9	91.0	2.4	444	0.00
	Delhi	4179	0	68.9	51.6	-0.8	266	0.00
NR	UP	17923	0	315.3	109.0	0.2	404	0.03
	Uttarakhand	2223	0	41.6	26.1	1.2	213	0.11
	HP	1817	0	32.7	25.7	1.2	431	0.00
	J&K(UT) & Ladakh(UT)	2853	550	55.0	49.4	-0.1	366	11.20
	Chandigarh	250	0	4.0	3.8	0.2	34	0.00
	Chhattisgarh	3969	0	84.2	30.1	-0.2	237	0.00
	Gujarat	16524	0	337.2	63.3	3.7	481	0.00
	MP	14959	0	284.4	174.2	-2.1	415	0.00
WR	Maharashtra	22332	0	444.4	150.6	-1.4	654	0.00
	Goa	503	0	9.7	9.9	-0.2	112	0.00
	DD	330	0	7.2	6.9	0.3	130	0.00
	DNH	778	0	16.4	17.2	-0.8	128	0.00
	AMNSIL	821	0	17.4	9.6	0.3	291	0.00
	Andhra Pradesh	8166	0	158.6	79.4	0.2	354	0.00
	Telangana	10033	0	188.1	81.9	-0.1	1290	0.00
SR	Karnataka	11191	0	205.3	73.4	0.3	510	0.00
	Kerala	3522	0	67.9	51.6	1.1	288	0.00
	Tamil Nadu	12984	0	257.1	156.6	-1.8	455	0.00
	Puducherry	336	0	6.6	7.1	-0.5	34	0.00
	Bihar	4991	0	84.6	82.9	0.4	406	0.00
	DVC	3178	0	66.3	-36.1	1.6	365	0.00
	Jharkhand	1431	0	26.7	20.5	-1.1	66	0.25
ER	Odisha	3791	0	66.9	-0.2	-0.4	363	0.00
	West Bengal	6340	0	112.0	6.8	-0.2	399	0.00
	Sikkim	131	0	2.0	1.8	0.2	44	0.00
	Arunachal Pradesh	120	1	2.1	2.2	-0.3	18	0.01
	Assam	1425	10	22.8	18.9	-0.2	113	0.80
	Manipur	228	2	2.8	3.5	-0.7	28	0.02
NER	Meghalaya	356	2	6.3	4.4	-0.1	76	0.00
. ,	Mizoram	110	1	1.7	1.5	-0.1	26	0.01
	Nagaland	151	i	2.2	2.2	-0.2	22	0.01
	Tripura	218	î	3,4	1.5	-0.2	51	0.00
	- A A POLA III	210	1 1	U.7	4.0	J.2		0.0

 D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

 Bhutan
 Nepal
 Bangladesh

 Actual (MU)
 7.1
 -9.8
 -15.3

 Day Peak (MW)
 337.0
 -521.5
 -907.0

 $\underline{\textbf{E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)}\\$

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	290.3	-301.7	126.2	-118.9	4.1	0.0
Actual(MU)	283.8	-295.4	118.0	-116.4	3.5	-6.5
O/D/U/D(MU)	-6.6	6.3	-8.1	2.6	-0.7	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6956	12565	8252	2695	669	31137
State Sector	9711	14971	13107	4932	11	42731
Total	16667	27535	21359	7627	681	73869

G. Sourcewise generation (MU)

G. Sourcewise generation (MC)						
	NR	WR	SR	ER	NER	All India
Coal	524	1316	411	465	7	2724
Lignite	19	13	32	0	0	64
Hydro	109	43	64	35	12	263
Nuclear	28	28	59	0	0	116
Gas, Naptha & Diesel	26	32	12	0	23	94
RES (Wind, Solar, Biomass & Others)	67	86	194	5	0	353
Total	774	1519	773	504	43	3613
Share of RES in total generation (%)	0.72	5.60	25.14	0.00	0.00	0.76
	8.72	5.68	25.14	0.90	0.09	9.76
Share of Non-fossil fuel (Hydro Nuclear and RFS) in total generation(%)	26.41	10.29	41 12	7.76	29 41	20.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.057

Based on State Max Demands
Diversity factor = Sum of regional or state maximum demands / All India maximum demand
Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 22-Dec-2020

						Date of Reporting:	
Sl Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)		_			_	
1 HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC 3 765 kV	PUSAULI B/B GAYA-VARANASI	2	0	299 1090	0.0	6.4 14.3	-6.4 -14.3
4 765 kV	SASARAM-FATEHPUR	1	30	256	0.0	1.8	-1.8
5 765 kV 6 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0	683 200	0.0	10.1 4.0	-10.1 -4.0
7 400 kV	PUSAULI -ALLAHABAD	i	0	146	0.0	2.2	-2.2
8 400 kV	MUZAFFARPUR-GORAKHPUR	2	0	878	0.0	9.5	-9.5
9 400 kV 10 400 kV	PATNA-BALIA BIHARSHARIFF-BALIA	4	0	1540 402	0.0	21.6 5.3	-21.6 -5.3
11 400 kV	MOTIHARI-GORAKHPUR	2	ŏ	356	0.0	5.9	-5.9
12 400 kV 13 220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	2	35 78	383 37	0.0	2.9	-2.9
14 132 kV	SONE NAGAR-RIHAND	i	0	0	0.0	0.0	0.6 0.0
15 132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16 132 kV 17 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
				ER-NR	1.0	83.9	-82.9
Import/Export of ER (
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4 2	678 830	613 90	0.3	0.0	0.3
2 765 kV 3 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2	67	434	0.0	0.0 4.3	10.1 -4.3
4 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	4	81	440	0.0	4.1	-4.1
5 400 kV	RANCHI-SIPAT	2	276	83	2.3	0.0	2.3
6 220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.8	-1.8
7 220 kV	BUDHIPADAR-KORBA	2	44	88	0.0	0.5	-0.5
Innert/Free Corner	Wat CD)			ER-WR	12.7	10.7	2.0
Import/Export of ER (With SR) JEYPORE-GAZUWAKA B/B	2	0	488	0.0	9.3	-9.3
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	1971	0.0	27.4	-27.4
3 765 kV	ANGUL-SRIKAKULAM	2	30779	3092	0.0	47.5	-47.5
4 400 kV 5 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	1137 1	137	8.2 0.0	0.0	8.2 0.0
		•	•	ER-SR	0.0	84.2	-84.2
Import/Export of ER (2	220	145	2.4	0.0	2.4
1 400 kV 2 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2	229 352	145 195	2.4 3.8	0.0	2.4 3.8
	ALIPURDUAR-SALAKATI	2	53	44	0.4	0.0	0.4
Import/Export of NER	(With NR)			ER-NER	6.6	0.0	6.6
	BISWANATH CHARIALI-AGRA	2	493	0	10.2	0.0	10.2
				NER-NR	10.2	0.0	10.2
Import/Export of WR 1 HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	53.0	-53.0
2 HVDC	VINDHYACHAL B/B	-	242	251	0.0	0.2	-0.2
3 HVDC	MUNDRA-MOHINDERGARH	2	0	1742	0.0	42.8	-42.8
4 765 kV 5 765 kV	GWALIOR-AGRA PHAGI-GWALIOR	2	0	3312 1795	0.0	52.5 21.9	-52.5 -21.9
6 765 kV	JABALPUR-ORAI	2	0	1184	0.0	38.6	-38.6
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	745	0 1500	12.7 0.0	0.0 29.2	12.7 -29.2
9 765 kV	CHITORGARH-BANASKANTHA	2	143	716	0.3	6.0	-5.8
10 400 kV	ZERDA-KANKROLI	1	94	181	0.0	0.7	-0.7
11 400 kV 12 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	47 967	489 0	22.2	4.9 0.0	-4.9 22.2
13 400 kV	RAPP-SHUJALPUR	2	0	540	0.0	5.8	-5.8
14 220 kV 15 220 kV	BHANPURA-RANPUR	1	6	180	0.0	2.0	-2.0
15 220 kV 16 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	11 117	0	0.2 0.5	0.9 0.1	-0.7 0.4
17 220 kV	MALANPUR-AURAIYA	1	68	27	1.4	0.0	1.4
18 132 kV 19 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1	0	0	0.0	0.0	0.0
19 132 KV	RAJGHAT-LALITI UK			WR-NR	37.2	258.6	-221.5
Import/Export of WR		ı					
1 HVDC 2 HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	0	1016 1492	0.0	11.1 18.8	-11.1 -18.8
3 765 kV	SOLAPUR-RAICHUR	2	1196	2815	0.0	23.1	22.1
4 765 kV	WARDHA-NIZAMABAD	2	0	2953			-23.1
5 400 kV 6 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2			0.0	35.6	-35.6
7 220 kV		2	1371	0	17.3	35.6 0.0	-35.6 17.3
8 220 kV	PONDA-AMBEWADI	2 1	0 1	0 0 0	17.3 0.0 0.0	35.6 0.0 0.0 0.0	-35.6 17.3 0.0 0.0
U ALUKY	PONDA-AMBEWADI XELDEM-AMBEWADI			0 0 0 39	17.3 0.0 0.0 0.7	35.6 0.0 0.0 0.0 0.0	-35.6 17.3 0.0 0.0 0.7
J BBS RV		1	0 1 0	0 0 0 39 WR-SR	17.3 0.0 0.0	35.6 0.0 0.0 0.0	-35.6 17.3 0.0 0.0
	XELDEM-AMBEWADI	1 1 INTER	0 1 0 NATIONAL EXCHA	0 0 0 39 WR-SR	17.3 0.0 0.0 0.7 18.0	35.6 0.0 0.0 0.0 0.0 0.0 88.7	-35.6 17.3 0.0 0.0 0.7 -70.7
State		1 1 INTER	0 1 0 NATIONAL EXCHAI	0 0 0 39 WR-SR	17.3 0.0 0.0 0.7	35.6 0.0 0.0 0.0 0.0	-35.6 17.3 0.0 0.0 0.7 -70.7
	Region	1 1 INTER Line 400kV MANGDECHH	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1&2	0 0 0 39 WR-SR NGES Max (MW)	17.3 0.0 0.0 0.7 18.0 Min (MW)	35,6 0.0 0.0 0.0 0.0 0.0 88.7	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange
	XELDEM-AMBEWADI	INTER INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1&2 CEIPT (from *180MW)	0 0 0 39 WR-SR	17.3 0.0 0.0 0.7 18.0	35.6 0.0 0.0 0.0 0.0 0.0 88.7	-35.6 17.3 0.0 0.0 0.7 -70.7
	Region ER	INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1 & 2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV	0 0 0 39 WR-SR NGES Max (MW)	17.3 0.0 0.0 0.7 18.0 Min (MW)	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW)	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII)
	Region	I I I INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECIU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MEECEIPT (from TALA	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1 & 2 CEIPT (from =180MW) RI 1,2.4 (& 400kV	0 0 0 39 WR-SR NGES Max (MW)	17.3 0.0 0.0 0.7 18.0 Min (MW)	35,6 0.0 0.0 0.0 0.0 0.0 88.7	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange
State	Region ER ER	I I INTER Line 400kV MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA-	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,24 (& 400kV RID 1,24 (& 400kV RID 1,24 (& 400kV RID 1,24 (& 400kV)	0 0 0 39 WR-SR NGES Max (MW) 140	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW)	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1
	Region ER	I INTER Line 400KY MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HFP 4 400KY TALA BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR MALBASE - BIRPAR	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV	0 0 0 39 WR-SR NGES Max (MW)	17.3 0.0 0.0 0.7 18.0 Min (MW)	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW)	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII)
State	Region ER ER ER	I I INTER Line Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINGV MALBASE - BIRPAR RECEIPT (from TALA RECEIPT (from CHUI	0 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1.&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RD i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPAG KHA HEP 4*84MW)	0 0 0 39 WR-SR NGES Max (MW) 140 150	17.3 0.0 0.0 0.7 18.0 Min (MW)	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW)	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1
State	Region ER ER	I INTER Line 400KY MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HFP 4 400KY TALA BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR MALBASE - BIRPAR	0 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1.&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RD i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPAG KHA HEP 4*84MW)	0 0 0 39 WR-SR NGES Max (MW) 140	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW)	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1
State	Region ER ER ER NER	INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TALA ZORV CHUKHA-BIR MALBASE - BIRAGU RECEIPT (from CHU 132KV-GEYLEGPHU	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RRI 1,24 (& 400kV RR) 1e, BINAGURI HEP (6*170MW) AVARA 1&2 (& 220kV A) 1e, BIRPARA (HAHPE 4*84MW) - SALAKATI	0 0 39 WR-SR NGES Max (MW) 140 150 34	17.3 0.0 0.0 0.7 18.0 Min (MW) 130	35.6 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State	Region ER ER ER	I I INTER Line Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINGV MALBASE - BIRPAR RECEIPT (from TALA RECEIPT (from CHUI	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RRI 1,24 (& 400kV RR) 1e, BINAGURI HEP (6*170MW) AVARA 1&2 (& 220kV A) 1e, BIRPARA (HAHPE 4*84MW) - SALAKATI	0 0 0 39 WR-SR NGES Max (MW) 140 150	17.3 0.0 0.0 0.7 18.0 Min (MW)	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW)	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1
State	Region ER ER ER NER	INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TALA ZORV CHUKHA-BIR MALBASE - BIRAGU RECEIPT (from CHU 132KV-GEYLEGPHU	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from **180MW) RI 1,24 (4 400kV RI) i.e. BINAGURI , HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPAGURI , HEP (6*170MW) - SALAKATI a	0 0 0 39 WR-SR NGES Max (MW) 140 150 34 20	17.3 0.0 0.0 0.7 18.0 Min (MW) 130	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150	-35.6 17.3 0.0 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State	Region ER ER ER NER	I I I I I I I I I I I I I I I I I I I	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RI) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV 4) i.e. BIRPARA HA HEP 4*84MW) - SALAKATI a	0 0 39 WR-SR NGES Max (MW) 140 150 34	17.3 0.0 0.0 0.7 18.0 Min (MW) 130	35.6 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State	Region ER ER ER NER NER	INTER INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA-BINAGU RECEIPT (from TALA- ZORV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR)	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1 &2 CEIPT (from *180MW) [81 1,2,4 (& 400kV) RI) i.e. BINAGURI HEP (6*170MW) 'ARA 1 &2 (& 220kV) A) i.e. BIRPARA (IMA HEP 4*8AMW) - SALAKATI a HI) -	0 0 39 WR-SR Max (MW) 140 150 34 20 -7	17.3 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 15 11	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State	Region ER ER ER NER	INTER INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA-BINAGU RECEIPT (from TALA- ZORV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR)	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RI) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV 4) i.e. BIRPARA HA HEP 4*84MW) - SALAKATI a	0 0 0 39 WR-SR NGES Max (MW) 140 150 34 20	17.3 0.0 0.0 0.7 18.0 Min (MW) 130	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150	-35.6 17.3 0.0 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State BHUTAN	Region ER ER ER NER NER NER	I INTER LINE LINE LINE 400KV MANGDECHH Le. ALIPURDUAR RE MANGDECHH HE 4 400KV TALA. BINAGU MALBASE. MALB	0 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RI) i.e. BINAGURI HEP (*170MW) PARA 1&2 (& 220kV) i.e. BIRPAG HA HEP 4*84MW) - SALAKATI a HH) - PG) UR - DHALKEBAR DC	0 0 9 WR-SR WR-SR WGES Max (MW) 140 150 34 20 -7 -61 -264	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0 -190	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 11 -2 -56	-35.6 17.3 0.0 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State	Region ER ER ER NER NER	INTER INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA-BINAGU RECEIPT (from TALA- ZORV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR)	0 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RI) i.e. BINAGURI HEP (*170MW) PARA 1&2 (& 220kV) i.e. BIRPAG HA HEP 4*84MW) - SALAKATI a HH) - PG) UR - DHALKEBAR DC	0 0 39 WR-SR Max (MW) 140 150 34 20 -7	17.3 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 15 11	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State BHUTAN	Region ER ER ER NER NER NER	INTER INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU RECEIPT (from TALA- ZORV CHUKHA-BIR MALBASE - BIRAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR(MA	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,24 (6 400kV RI 1,24 (6 400kV RI 1,26 1 4 200kV ARA 1 &2 (6 220kV 4) t.e. BIRPARA (IIA HEP 4*84MW) - SALAKATI a HI) - PG) UR - DHALKEBAR DC ML	0 0 9 WR-SR WR-SR WGES Max (MW) 140 150 34 20 -7 -61 -264	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0 -190	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 11 -2 -56	-35.6 17.3 0.0 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State BHUTAN	Region ER ER ER NER NER NER	I INTER LINE LINE LINE 400KV MANGDECHH Le. ALIPURDUAR RE MANGDECHH HE 4 400KV TALA. BINAGU MALBASE. MALB	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,24 (6 400kV RI 1,24 (6 400kV RI 1,26 1 4 200kV ARA 1 &2 (6 220kV 4) t.e. BIRPARA (IIA HEP 4*84MW) - SALAKATI a HI) - PG) UR - DHALKEBAR DC ML	0 0 9 WR-SR WR-SR WGES Max (MW) 140 150 34 20 -7 -61 -264	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0 -190	35.6 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 11 -2 -56	-35.6 17.3 0.0 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4
State BHUTAN NEPAL	Region ER ER ER NER NER NER ER ER	I I I INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHH 4400kV TALA-BINAGU RECEIPT (from TALJ- 220kV CHUKHA-BIR MALBASE - BIRAGU RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV-TANAKPUR(M MAHENDRANAGAR(M MAHENDRANAGAR(M 400kV-MUZAFFARP 132kV-BIHAR - NEP/ BHERAMARA HVDC	0 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1;2.4 (& 400kV RI 1;2.4 (& 400kV RI 1;2.4 (& 400kV RI 1;2.4 (& 200kV A) i.e. RIPAPA (& 220kV A) i.e. RIPAPA (**) - SALAKATI a iii) - PG) UUR - DHALKEBAR DC AL (BANGLADESH)	0 0 39 WR-SR Max (MW) 140 150 34 20 -7 -61	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0 -190	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 15 11 -2 -56 -233	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4 0.3
State BHUTAN	Region ER ER ER NER NER NER ER ER	INTER INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU RECEIPT (from TALA- ZORV CHUKHA-BIR MALBASE - BIRAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR(MA	0 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400KV RI) i.e. BINAGURI HEP (6*170MW) *2ARA 1&2 (& 220KV 4) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI a iii) - PG) UR - DHALKEBAR DC AL (BANGLADESH)	0 0 39 WR-SR Max (MW) 140 150 34 20 -7 -61	17.3 0.0 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 0 -190	35.6 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 15 11 -2 -56 -233	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4 0.3
State BHUTAN NEPAL	Region ER ER ER NER NER NER ER ER ER	I INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHH 400kV TALA-BINAGU RECEIPT (from TALA- 1326KV-BINAGU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132KV-TANAKPUR(MAHENDRANAGAR) 400KV-MUZAFFARP 132KV-BIHAR - NEP/ BHERAMARA HVDC 132KV-SURAJMANI 1COMILLA(BANGLAI	0 1 0 NATIONAL EXCHAI Name U-ALIPURDUAR 1 &2 CEIPT (from *180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI HEP (*170MW) *2ARA 1&2 (& 220kV 4) i.e. BIRPARA HA HEP 4*84MW) - SALAKATI a HH) - PG) UR - DHALKEBAR DC AL (BANGLADESH) NAGAR - DESH)-1	0 0 0 39 WR-SR Max (MW) 140 150 34 20 -7 -61 -264 -197	17.3 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 -190 -1	35.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 15 11 -2 -56 -233 -120 -557	-35.6 17.3 0.0 0.0 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4 0.3 0.0 -1.3 -5.6 -2.9
State BHUTAN NEPAL	Region ER ER ER NER NER NER ER ER ER	INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHH 400kV TALA-BINAGU RECEIPT (from TALA- 200kV TALA-BINAGU RECEIPT (from TALA- 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR(MAHENDRANAGAR(MAHENDRANAGAR(MAHENDRANAGAR(MAHENDRAMAGAR(MA	0 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV RI) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPAGURI A) ii.e. BIRPAGURI BORNACH BOR	0 0 0 39 WR-SR Max (MW) 140 150 34 20 -7 -61 -264 -197	17.3 0.0 0.0 0.7 18.0 Min (MW) 130 135 0 -190 -1	35.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 88.7 Avg (MW) 130 150 15 11 -2 -56 -233 -120 -557	-35.6 17.3 0.0 0.0 0.7 -70.7 Energy Exchange (MII) 3.1 3.7 0.4 0.3 0.0 -1.3 -5.6 -2.9