

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION 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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 12th Oct 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

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 11.10.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-अक्टूबर-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 11th October 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 Date of Reporting:

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	50366	47335	33604	22180	2892	156377
Peak Shortage (MW)	0	0	0	63	7	70
Energy Met (MU)	1123	1120	757	464	54	3518
Hydro Gen (MU)	195	29	83	117	23	447
Wind Gen (MU)	2	41	89	-	-	131
Solar Gen (MU)*	40.40	25.42	43.62	4.74	0.07	114
Energy Shortage (MU)	0.3	0.0	0.0	0.2	0.1	0.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52079	47646	33880	22685	2952	156475
Time Of Maximum Demand Met (From NLDC SCADA)	19:21	11:00	09:24	20:08	18:59	19:06

B. Frequency Profile (%) Region All India FVI 0.022

Region	States	Max.Demand Met during the	Shortage during maximum		Drawal Schedule	OD(+)/UD(-)	Max OD	Energy Shortag
Kegion		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	8516	0	179.0	131.7	-1.6	215	0.0
	Haryana	7004	0	157.1	130.3	0.9	235	0.0
	Rajasthan	11166	0	229.6	76.3	1.3	695	0.0
	Delhi	3764	0	81.6	65.2	-0.5	147	0.0
NR	UP	18949	0	365.3	143.1	-1.2	337	0.3
	Uttarakhand	1655	0	34.3	18.2	0.3	126	0.0
	HP	1295	0	27.5	11.4	-1.3	47	0.0
	J&K(UT) & Ladakh(UT)	2595	0	45.3	30.4	0.0	421	0.0
	Chandigarh	189	0	3.5	3.7	-0.2	13	0.0
	Chhattisgarh	3621	0	84.5	16.5	-0.3	152	0.0
	Gujarat	16365	0	361.2	67.1	3.6	714	0.0
	MP	10201	0	226.0	142.0	-1.9	333	0.0
WR	Maharashtra	17571	0	396.7	141.7	-1.4	663	0.0
	Goa	411	0	8.4	8.1	-0.2	44	0.0
	DD	305	0	6.9	6.8	0.1	24	0.0
	DNH	778	0	18.3	18.3	0.0	41	0.0
	AMNSIL	813	0	18.1	1.2	0.6	240	0.0
	Andhra Pradesh	6511	0	145.7	68,5	-1.4	566	0.0
	Telangana	6744	0	143.2	49.9	-2.0	477	0.0
SR	Karnataka	6676	0	133.2	39.0	0.3	930	0.0
	Kerala	2979	0	60.7	40.2	0.7	177	0.0
	Tamil Nadu	12041	0	267.0	146.1	-5.6	448	0.0
	Puducherry	335	0	7.3	7.4	-0.1	31	0.0
	Bihar	5721	0	112.9	108.5	-0.5	242	0.0
	DVC	3191	0	66.5	-45.6	0.7	301	0.0
	Jharkhand	1482	63	29.6	22.5	-1.5	75	0.2
ER	Odisha	4563	0	91.6	9.3	-0.1	425	0.0
-	West Bengal	8131	0	162.6	59.3	2.1	581	0.0
	Sikkim	76	0	1.0	1.3	-0.3	14	0.0
	Arunachal Pradesh	121	1	2.3	2.1	0.2	58	0.0
	Assam	1870	6	34.2	30.9	0.0	146	0.0
	Manipur	193	2	2.8	2.6	0.2	19	0.0
NER	Meghalaya	317	0	5.7	0.8	0.0	66	0.0
.,	Mizoram	85	1	1.5	0.9	0.2	16	0.0
	Nagaland	135	3	2.5	2.4	-0.1	33	0.0
	Tripura	301	2	4.9	6.6	0.3	66	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	37.1	-1.8	-25.2
Day Peak (MW)	1673.0	-236.2	-1075.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	323.9	-325.6	79.8	-82.2	4.2	0.0
Actual(MU)	338.6	-321.2	48.9	-71.6	5.0	-0.2
O/D/U/D(MU)	14.7	4.4	-30.8	10.7	0.8	-0.2
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F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6147	13217	10112	2285	275	32035
State Sector	11724	16660	12486	5795	112	46776
Total	17871	29876	22598	8080	387	78811

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	485	1223	370	434	10	2522
Lignite	25	11	16	0	0	53
Hydro	195	29	83	117	23	447
Nuclear	27	20	69	0	0	116
Gas, Naptha & Diesel	22	105	14	0	22	164
RES (Wind, Solar, Biomass & Others)	54	66	164	5	0	289
Total	808	1455	716	556	55	3590
Share of RES in total generation (%)	6.66	4.56	22.91	0.85	0.13	8.05
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	34.09	7.94	44.05	21.93	42.16	23.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.065

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 12-Oct-2020

L cu L		ı		,		Date of Reporting:	
Sl Voltage Leve	l Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of EF							_
1 HVDC	ALIPURDUAR-AGRA	2	0	1202	0.0	29.2	-29.2
2 HVDC 3 765 kV	PUSAULI B/B GAYA-VARANASI	2	0 106	297 384	0.0	7.5 4.4	-7.5 -4.4
4 765 kV	SASARAM-FATEHPUR	1	404	69	4.3	0.0	4.3
5 765 kV	GAYA-BALIA	1	0	412	0.0	8.2	-8.2
6 400 kV	PUSAULI-VARANASI	1 1	0	277	0.0	5.9	-5.9
7 400 kV 8 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 7	0 110	118 414	0.0	1.4 4.3	-1.4 -4.3
9 400 kV	PATNA-BALIA	<u> </u>	0	612	0.0	9.1	-9.1
10 400 kV	BIHARSHARIFF-BALIA	2	10	218	0.0	2.4	-2.4
11 400 kV	MOTIHARI-GORAKHPUR	2	0	250	0.0	4.3	-4.3
12 400 kV 13 220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	2	341 0	25 107	3.9 0.0	0.0 2.0	3.9 -2.0
14 132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 132 kV	GARWAH-RIHAND	î	20	0	0.4	0.0	0.4
16 132 kV	KARMANASA-SAHUPURI	11	0	0	0.0	0.0	0.0
17 132 kV	KARMANASA-CHANDAULI	11	0	0 ER-NR	0.0	0.0	0.0
Import/Export of EF	(With WR)			ER-NK	8.7	78.7	-70.0
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4	695	580	3.4	0.0	3.4
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	1665	0	26.5	0.0	26.5
3 765 kV	JHARSUGUDA-DURG	2	219	21	2.3	0.0	2.3
4 400 kV	JHARSUGUDA-RAIGARH	4	376	0	5.5	0.0	5.5
5 400 kV	RANCHI-SIPAT	2	525	0	9.0	0.0	9.0
6 220 kV	BUDHIPADAR-RAIGARH	1	0	103	0.0	1.4	-1.4
7 220 kV	BUDHIPADAR-KORBA	2	166	0	3.1	0.0	3.1
	•			ER-WR	49.8	1.4	48.4
Import/Export of EF							
1 HVDC	JEYPORE-GAZUWAKA B/B	2	0	437	0.0	9.9	-9.9 21.5
2 HVDC 3 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1636 1893	0.0	31.5 28.8	-31.5 -28.8
4 400 kV	TALCHER-I/C	2	358	549	0.9	0.0	0.9
5 220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
v .m . :==				ER-SR	0.0	70.1	-70.1
Import/Export of EF		1 2	Δ.	500	0.0	0.5	0.5
1 400 kV 2 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0	589 490	0.0	8.5 6.4	-8.5 -6.4
3 220 kV	ALIPURDUAR-SALAKATI	2	0	151	0.0	2.5	-2.5
		-	-	ER-NER	0.0	17.4	-17.4
Import/Export of NE							
1 HVDC	BISWANATH CHARIALI-AGRA	2	0	604 NER-NR	0.0	14.6	-14.6
Import/Export of W	R (With NR)			MER-MR	0.0	14.6	-14.6
1 HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	63.6	-63.6
2 HVDC	VINDHYACHAL B/B		182	256	0.6	5.4	-4.9
3 HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	43.9	-43.9 55.2
4 765 kV 5 765 kV	GWALIOR-AGRA PHAGI-GWALIOR	2 2	0	2888 1363	0.0	55.2 25.3	-55.2 -25.3
6 765 kV	JABALPUR-ORAI	2	0	1363	0.0	25.3 45.4	-25.3 -45.4
7 765 kV	GWALIOR-ORAI	1	533	0	9.7	0.0	9.7
8 765 kV	SATNA-ORAI	1	0	1518	0.0	33.7	-33.7
9 765 kV	CHITORGARH-BANASKANTHA	2	40	899	0.0	7.1	-7.1
10 400 kV	ZERDA-KANKROLI	1	70	157	0.0	1.2	-1.2
11 400 kV 12 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	19 981	243	0.0 22.3	3.0 0.0	-3.0 22.3
13 400 kV	RAPP-SHUJALPUR	2	981	433	0.0	3.8	-3.8
14 220 kV	BHANPURA-RANPUR	1	ő	139	0.0	2.2	-2.2
15 220 kV	BHANPURA-MORAK	1	11	0	0.0	2.1	-2.1
16 220 kV	MEHGAON-AURAIYA	1	107	0	0.2	0.1	0.1
17 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	58 0	29 0	1.2 0.0	0.0	1.2
18 132 kV 19 132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
			<u> </u>	WR-NR	34.0	291.7	-257.7
Import/Export of W							
1 HVDC	BHADRAWATI B/B	<u> </u>	0	525	0.0	9.6	-9.6
2 HVDC 3 765 kV	RAIGARH-PUGALUR SOLAPUR-PAICHUR	2 2	0				
3 765 kV 4 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD			399	0.0	9.3	-9.3
5 400 kV		2	1331	970	0.0 4.6	9.3 0.0	4.6
6 220 kV	KOLHAPUR-KUDGI				0.0	9.3	
	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2	1331 336	970 1108	0.0 4.6 0.0 10.1 0.0	9.3 0.0 10.7	4.6 -10.7
	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 1	1331 336 814 0	970 1108 0 0	0.0 4.6 0.0 10.1 0.0	9.3 0.0 10.7 0.0 0.0	4.6 -10.7 10.1 0.0 0.0
7 220 kV 8 220 kV	KOLHAPUR-CHIKODI	2 2 2	1331 336 814 0	970 1108 0 0 0 81	0.0 4.6 0.0 10.1 0.0 0.0	9,3 0.0 10.7 0.0 0.0 0.0	4.6 -10.7 10.1 0.0 0.0 1.5
	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 1 1	1331 336 814 0 0	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0	9.3 0.0 10.7 0.0 0.0	4.6 -10.7 10.1 0.0 0.0
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 1 1 1 INTER	1331 336 814 0 0 0	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4
	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 1 1 1 INTER	1331 336 814 0 0	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0 0.0	9,3 0.0 10.7 0.0 0.0 0.0	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1331 336 814 0 0 0 NATIONAL EXCHA! Name	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE	1331 336 814 0 0 0 NATIONAL EXCHANAME NAME UALIPURDUAR 1&2 CEIPT (from	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR MANGDECHU HEP 4	1331 336 814 0 0 0 0 0 0 0	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 1 1 1 INTER Line 400kV MANGDECHH Line ALIPURDUAR RE MANGDECHI HEF 4 400kV TALA BINAGU MALBASE - BINAGU	1331 336 814 0 0 0 0 NATIONAL EXCHAY Name U-ALIPURDUAR 1&2 CEIPT (from = 180MW) URI 1,2,4 (& 400kV RR) i.e. BINAGURI	970 1108 0 0 0 81 WR-SR	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 1 1 1 INTER INTER Line Lic. ALIPURDUAR RE MANGDECHH HEP 4 400KY TALA BINAGI MALBASE - BINAGU MECELIPI (From TAL/	1331 336 814 0 0 0 0 NATIONAL EXCHA! Name 180MW) 180H 1,24 (4400kV) RI) i.e. BINAGURI A HEP (64170MW)	970 1108 0 0 0 81 WR-SR NGES Max (MW)	0.0 4.6 0.0 10.1 0.0 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII)
State	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le. ALIPURDUR HE 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL)- 220kV CHUKHA-BIR	1331 336 814 0 0 0 0 0 NATIONAL EXCHAY Name UL-ALIPURDUAR 1&2 CEIPT (from p=180MW) DIRI 1,2,4 (& 400kV RI) i.e. BINAGURI A IEP (6+170MW) PARA 1&2 (& 220kV	970 1108 0 0 0 81 WR-SR NGES Max (MW) 455	0.0 4.6 0.0 10.1 0.0 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII)
8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 1 1 1 INTER INTER Line Lic. ALIPURDUAR RE MANGDECHH HEP 4 400KY TALA BINAGI MALBASE - BINAGU MECELIPI (From TAL/	1331 336 814 0 0 0 0 0 NATIONAL EXCHA! Name 180MW) 180MW) 1811,24 (8 400kV RI) i.e. BINAGURI 1814 (8 420kV	970 1108 0 0 0 81 WR-SR NGES Max (MW)	0.0 4.6 0.0 10.1 0.0 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII)
State	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 1 1 1 INTER Line 400KV MANGDECHH 400KV MANGDECHH HEP 4 400KV TALABINAGI MALBASE - BINAGU ECEIDT (from TAL/ 220KV CHUKHIA-BIR RECEIDT (from TAL/	1331 336 814 0 0 0 0 0 NATIONAL EXCHA! Name 120 SEPT (from 1234 6400kV) RI) i.e. BINAGURI RIP (6470W) PARA 122 (& 220kV) A) i.e. BIRPAKA KHA HEP 4*84MW)	9770 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445	4.6 -10.7 10.1 0.0 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1
State	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU ECCEIPT (From TAL- 220kV CHUKHIA-BIR MALBASE - BIRPAR	1331 336 814 0 0 0 0 0 NATIONAL EXCHA! Name 120 SEPT (from 1234 6400kV) RI) i.e. BINAGURI RIP (6470W) PARA 122 (& 220kV) A) i.e. BIRPAKA KHA HEP 4*84MW)	970 1108 0 0 0 81 WR-SR NGES Max (MW) 455	0.0 4.6 0.0 10.1 0.0 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 29.6 Avg (MW)	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII)
State	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 1 1 1 INTER Line 400KV MANGDECHH 400KV MANGDECHH HEP 4 400KV TALABINAGI MALBASE - BINAGU ECEIDT (from TAL/ 220KV CHUKHIA-BIR RECEIDT (from TAL/	1331 336 814 0 0 0 0 0 NATIONAL EXCHA! Name 120 SEPT (from 1234 6400kV) RI) i.e. BINAGURI RIP (6470W) PARA 122 (& 220kV) A) i.e. BIRPAKA KHA HEP 4*84MW)	9770 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445	4.6 -10.7 10.1 0.0 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1
State	KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 1 1 1 INTER Line 400KV MANGDECHH 400KV MANGDECHH HEP 4 400KV TALABINAGI MALBASE - BINAGU ECEIDT (from TAL/ 220KV CHUKHIA-BIR RECEIDT (from TAL/	1331 336 814 0 0 0 0 0 NATIONAL EXCHAY Name U-ALIPURDUAR 1&2 CZEIPT (from p=180MW) DER 1,2,4 (& 400kV RD) i.e. BINAGURI A IEP (6-170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	9770 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781	0.0 4.6 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW)	9.3 0.0 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445	4.6 -10.7 10.1 0.0 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1
State	ROLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 1 1 1 INTER Line 400KV MANGDECHH LIE, ALIPICHUAR RE MANGDECHH HEP 400KV TALABINAGI MALBASE- BINAGU MALBASE- BINAGU RECEIDT (From TAL- 220KV CHUKHA-BIR MALBASE- BIRPAR M	1331 336 814 14 15 16 17 17 17 17 17 17 17	970 1108 0 0 0 81 WR-SR NGES Max (MW) 455 781 321	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0	9.3 0.0 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290	4.6 -10.7 10.1 0.0 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1
State	ROLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR MA MAGDECHU HEP 4 400kV TALA-BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRACU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rang 132kV-TANAKPUR()	1331 336 814 0 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from p=180MW) UEI 12.4 (& 400kV R) R 1EP (6-170MW) PARA 1&2 (& 220kV A) 1c. BIRPARA KHA HEP 4*84MW) - SALAKATI ia	970 1108 0 0 0 81 WR-SR NGES Max (MW) 455 781 321	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0	9.3 0.0 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290	4.6 -10.7 10.1 0.0 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1
State	RECHAPUR CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 1 1 1 INTER Line 400KV MANGDECHH LIE, ALIPICHUAR RE MANGDECHH HEP 400KV TALABINAGI MALBASE- BINAGU MALBASE- BINAGU RECEIDT (From TAL- 220KV CHUKHA-BIR MALBASE- BIRPAR M	1331 336 814 0 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from p=180MW) UEI 12.4 (& 400kV R) R 1EP (6-170MW) PARA 1&2 (& 220kV A) 1c. BIRPARA KHA HEP 4*84MW) - SALAKATI ia	9770 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781 51 65	0.0 4.6 0.0 10.1 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 37	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45	4.6 -10.7 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII) -10.7 -17.1 -1.1 -1.3
State BHUTAN	RECHAPUR CHIKODI PONDA - AMBEWADI XELDEM - AMBEWADI Region ER ER ER NER NER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHI HEP 4 400kV TALA-BINAGU RECEIPT (from TAL- 220kV CHUKHA-BIR MALBASE - BINACU RECEIPT (from CHU 132KV-GEYLEGPHU 132KV Motanga-Rang 132KV-TANAKPUR() MAHENDRANAGAR	1331 336 814 0 0 0 0 0 NATIONAL EXCHAI Name UALIPPURDUAR 1&2 CEIPT (from p=180MW) URI 1;2,4 (& 400kV RT) is 180MGURI NIEP (6+170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) SALAKATI iii	9770 1108 0 0 0 0 0 WR-SR WSSR Max (MW) 455 781 321 51 65	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 49	9.3	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1 7.0 -1.1 -1.3
State	RECHAPUR CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR MA MAGDECHU HEP 4 400kV TALA-BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRACU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rang 132kV-TANAKPUR()	1331 336 814 0 0 0 0 0 NATIONAL EXCHAI Name UALIPPURDUAR 1&2 CEIPT (from p=180MW) URI 1;2,4 (& 400kV RT) is 180MGURI NIEP (6+170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) SALAKATI iii	9770 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781 51 65	0.0 4.6 0.0 10.1 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 37	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45	4.6 -10.7 -10.7 -10.1 -0.0 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII) -10.7 -17.1 -1.1 -1.3
State BHUTAN	RECHAPUR CHIKODI PONDA AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER NR ER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH 400kV MANGDECHH 400kV MANGDECH HEP 4 400kV TALABINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR() MAHENDRANAGAR 132KV-TANAKPUR()	1331 336 1814 0 0 0 10 0 INATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CCEIPT (from 1180MW) F180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI RI 1,2,4 (& 400kV RI) i.e. BINAGURI A) i.e. BIRPARA KIIA HEP 4*84MW) - SALAKATI iia	970 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781 321 51 65 -49	0.0 4.6 0.0 10.1 9.0 9.0 9.0 1.5 16.2 Min (MW) 0 37 49	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45 -55	4.6 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII) -10.7 -1.1 -1.3 -0.4 -0.1
State BHUTAN	RECHAPUR CHIKODI PONDA - AMBEWADI XELDEM - AMBEWADI Region ER ER ER NER NER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH 400kV MANGDECHH 400kV MANGDECH HEP 4 400kV TALABINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR() MAHENDRANAGAR 132KV-TANAKPUR()	1331 336 814 0 0 0 0 0 NATIONAL EXCHAI Name UALIPPURDUAR 1&2 CEIPT (from p=180MW) URI 1;2,4 (& 400kV RT) is 180MGURI NIEP (6+170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) SALAKATI iii	9770 1108 0 0 0 0 0 WR-SR WSSR Max (MW) 455 781 321 51 65	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 49	9.3	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1 7.0 -1.1 -1.3
State BHUTAN	RECHAPUR CHIKODI PONDA AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER NR ER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH 400kV MANGDECHH 400kV MANGDECH HEP 4 400kV TALABINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR() MAHENDRANAGAR 132KV-TANAKPUR()	1331 336 1814 0 0 0 10 0 INATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CCEIPT (from 1180MW) F180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI RI 1,2,4 (& 400kV RI) i.e. BINAGURI A) i.e. BIRPARA KIIA HEP 4*84MW) - SALAKATI iia	970 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781 321 51 65 -49	0.0 4.6 0.0 10.1 9.0 9.0 9.0 1.5 16.2 Min (MW) 0 37 49	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45 -55	4.6 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII) -10.7 -1.1 -1.3 -0.4 -0.1
State BHUTAN	RECHAPUR CHIKODI PONDA AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER NR ER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH 400kV MANGDECHH 400kV MANGDECH HEP 4 400kV TALABINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR() MAHENDRANAGAR 132KV-TANAKPUR()	1331 336 814 0 0 0 0 0 NATIONAL EXCHAI Name UVALIPURDUAR 1&2 CEIPT (from p=180MW) URI 12.4 (& 400kV RT) (e 170MW) PARA 1&2 (& 220kV A) (e BIRPARA KHA HEP 4*8MW) SALAKATI in WII) SALAKATI in URI SALAKATI in URI SALAKATI in URI SALAKATI in URI SALAKATI	970 1108 0 0 0 81 WR-SR WGES Max (MW) 455 781 321 51 65 -49	0.0 4.6 0.0 10.1 9.0 9.0 9.0 1.5 16.2 Min (MW) 0 37 49	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45 -55	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1 -1.3 -0.4 -0.1
State BHUTAN	RECHAPUR CHIKODI PONDA AMBEWADI XELDEM AMBEWADI Region ER ER ER NER NER NER ER ER ER	2 2 2 1 1 1 INTER Line 600KV MANGDECHH 16. ALIPURDUAR RE MANGDECHU HEF 4 400KV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL) 220KV CHUKHA-BIR MALBASE - BIRAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPURN MAHENDRANAGAR 132KV-BIHAR - NEP, 220KV-MUZAFFARP	1331 336 814 0 0 0 0 0 NATIONAL EXCHAI Name UVALIPURDUAR 1&2 CEIPT (from p=180MW) URI 12.4 (& 400kV RT) (e 170MW) PARA 1&2 (& 220kV A) (e BIRPARA KHA HEP 4*8MW) SALAKATI in WII) SALAKATI in URI SALAKATI in URI SALAKATI in URI SALAKATI in URI SALAKATI	9770 1108 0 0 0 0 81 WR-SR WGES Max (MW) 455 781 321 51 65 -49 -17	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0	9.3	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1 7.0 -1.1 -1.3 -0.4 -0.1
State State BHUTAN NEPAL	RECHAPUR CHIKODI PONDA AMBEWADI REGION ER ER ER NER NER NER ER ER ER	2 2 2 1 1 1 INTER Line Gloky Mangdechh i.e. Alipurduar Mangdechh i.e. Alipurduar Hooky Mangdechh i.e. Alipurduar Mangdechh Mangdechh Mangdechh Malbars Binacu Receidt (from tal.) 132kV-Birar 132kV-Birar 132kV-Motanga-Rang 132kV-Tanakpur(Mahendranaga-Rang 132kV-Tanakpur(Mahendranaga-Rang 132kV-Birar	1331 336 336 814 0 0 0 0 0 0 0 0 0	970 1108 0 0 0 81 WR-SR WS-SR 151 455 49 -17 -170 -910	0.0 4.6 0.0 10.1 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 37 49 -1 -2	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45 -55 -17 -3 -54	4.6 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII) -10.7 -1.1 -1.3 -0.4 -0.1 -1.3 -0.4 -0.1 -1.3
State BHUTAN	RECHAPUR CHIKODI PONDA AMBEWADI XELDEM AMBEWADI Region ER ER ER NER NER NER ER ER ER	2 2 2 1 1 1 INTER Line 400kV MANGDECHH Line 400kV MANGDECHH HEP 4 400kV TALABNAGI MALBASE BINAGG MALBASE BINAGG MALBASE BINAGG MALBASE BIRPAR RECEIPT (from TAL/ 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR() MAHENDRANAGAR 132kV-BHAR - NEP. 220kV-MUZAFFARP BHERAMARA HVDC	1331 336 336 814 0 0 0 0 0 0 0 0 0	9770 1108 0 0 0 0 81 WR-SR WGES Max (MW) 455 781 321 51 65 -49 -17	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0	9.3	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1 7.0 -1.1 -1.3 -0.4 -0.1
State State BHUTAN NEPAL	Region Region ER ER ER NER NER NER ER ER NER NER NER ER	2 2 2 1 1 1 INTER Line Gloky Mangdechh i.e. Alipurduar An Mangdechh i.e. Alipurduar Bhangdechh i.e. Alipurduar Bhangdechh Mangdechh Malbars - Binacu Receidt (from tal. 220kv Chukha-bir Malbars - Binacu Receidt (from chu 132kv-Geyleghh 132kv Motanga-Rang 132kv-Tanakpur(m Mahendranacar 132kv-Bihar - Nep. 220kv-Muzaffarp Bheramara Hydo 132kv-Surajmani Comilla(Bangla)	1331 336 336 814 0 0 0 0 0 0 0 0 0	9770 1108 0 0 0 0 81 WR-SR WGES Max (MW) 455 781 321 51 65 -49 -17 -170 -910	0.0 4.6 0.0 10.1 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 -1 -2 -907	9.3	4.6 -10.7 10.1 0.0 0.0 1.5 -13.4 Energy Exchange (MII) 10.7 17.1 7.0 -1.1 -1.3 -0.4 -0.1 -1.3 -21.8
State State BHUTAN NEPAL	RECHAPUR CHIKODI PONDA AMBEWADI REGION ER ER ER NER NER NER ER ER ER	2 2 2 1 1 1 INTER Line Gloky Mangdechh i.e. Alipurduar Mangdechh i.e. Alipurduar Hooky Mangdechh i.e. Alipurduar Mangdechh Mangdechh Mangdechh Malbars Binacu Receidt (from tal.) 132kV-Birar 132kV-Birar 132kV-Motanga-Rang 132kV-Tanakpur(Mahendranaga-Rang 132kV-Tanakpur(Mahendranaga-Rang 132kV-Birar	1331 336 814 0 0 0 0 0 NATIONAL EXCHAN Name UL-ALIPURDUAR 1&2 CEHPT (from p+180MW) URI 1,2,4 (& 400KV RIB 1,	970 1108 0 0 0 81 WR-SR WS-SR 151 455 49 -17 -170 -910	0.0 4.6 0.0 10.1 0.0 10.1 0.0 0.0 1.5 16.2 Min (MW) 0 0 37 49 -1 -2	9.3 0.0 10.7 10.7 0.0 0.0 0.0 0.0 0.0 29.6 Avg (MW) 445 710 290 -45 -55 -17 -3 -54	4.6 -10.7 -10.1 -0.0 -0.0 -1.5 -13.4 Energy Exchange (MII) -10.7 -1.1 -1.3 -0.4 -0.1 -1.3 -0.4 -0.1 -1.3