

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, क़तुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 3rd Nov 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 02.11.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-नवंबर-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 2nd November 2020, is available at the NLDC website.

धन्यवाद.

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



Report for pre					Da	te of Reporting:	03-No	v-202
A. Power Supp	ply Position at All India and Regional level							7
		NR	WR	SR	ER	NER	TOTAL	
Demand Met du	uring Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	44627	50353	40676	20075	2712	158443	
Peak Shortage ((MW)	160	0	0	0	49	209	1
Energy Met (M	U)	920	1172	921	410	48	3470	1
Hydro Gen (MU	U)	120	25	136	78	18	377	1
Wind Gen (MU		1	40	17	-	-	58]
Solar Gen (MU))*	37.80	29.27	94.22	4.46	0.12	166]
Energy Shortag	ge (MU)	1.5	0.0	0.0	0.0	2.6	4.1]
Maximum Dema	and Met During the Day (MW) (From NLDC SCADA)	45234	53128	44311	20309	2835	160241	1
Time Of Maxim	num Demand Met (From NLDC SCADA)	09:39	15:46	12:26	17:57	17:59	18:31]
B. Frequency I	Profile (%)							_
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05	1
All India	0.029	0.00	0.16	5.22	5.38	79.42	15.20]
C. Power Supr	oly Position in States							
		May Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	May OD	F

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		day(MW)	Demand(MW)	(- /	(MU)	` ′	, ,	(MU)
	Punjab	5480	0	107.4	86.7	-0.6	221	0.0
	Haryana	5908	0	123.0	111.8	-0.2	156	0.0
	Rajasthan	12630	0	241.3	82.5	2.2	402	0.0
	Delhi	3364	0	63.4	46.6	-1.0	206	0.0
NR	UP	14398	160	271.5	106.3	-0.7	505	1.5
	Uttarakhand	1762	0	34.9	25.4	0.8	130	0.0
	HP	1530	0	29.1	19.9	0.4	216	0.0
	J&K(UT) & Ladakh(UT)	2534	0	46.8	39.0	0.6	327	0.0
	Chandigarh	173	0	3.0	3.0	-0.1	12	0.0
	Chhattisgarh	3516	0	75.5	24.6	-0.8	427	0.0
	Gujarat	16192	0	349.4	64.8	3.0	481	0.0
	MP	13074	0	266.3	166.9	-2.1	523	0.0
WR	Maharashtra	19775	0	428.0	139.3	-1.5	470	0.0
	Goa	479	0	10.1	9.5	0.0	74	0.0
	DD	336	0	7.2	7.0	0.2	171	0.0
	DNH	796	0	18.1	18.0	0.1	239	0.0
	AMNSIL	759	0	17.0	2.2	0.2	203	0.0
	Andhra Pradesh	9338	0	185.3	85.8	1.2	514	0.0
	Telangana	7427	0	153.0	41.0	-0.5	404	0.0
SR	Karnataka	9657	0	184.1	68.1	0.8	465	0.0
	Kerala	3628	0	73.2	50.7	0.4	199	0.0
	Tamil Nadu	15234	0	317.3	184.5	2.6	687	0.0
	Puducherry	364	0	7.8	8.0	-0.2	43	0.0
	Bihar	4511	0	82.4	81.9	-0.1	551	0.0
	DVC	3157	0	63.1	-44.0	0.8	275	0.0
	Jharkhand	1322	0	27.0	19.2	-2.0	90	0.0
ER	Odisha	4435	0	90.3	14.9	-0.1	568	0.0
	West Bengal	7569	0	146.1	42.0	2.9	532	0.0
	Sikkim	103	0	1.4	1.4	0.0	44	0.0
	Arunachal Pradesh	119	2	2.0	2.2	-0.2	36	0.0
	Assam	1720	46	28.7	25.1	0.2	94	2.5
	Manipur	198	3	2.7	2,4	0.3	31	0.0
NER	Meghalaya	352	0	6.1	2.0	-0.1	29	0.0
	Mizoram	101	2	1.5	0.7	0.7	14	0.0
	Nagaland	151	3	2.5	2,2	0.2	15	0.0
	Tripura	266	0	4.5	4.3	-0.2	42	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	21.1	-2.0	-24.5
Day Peak (MW)	1028.0	-252.9	-1066.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)								
	NR	WR	SR	ER	NER	TOTAL		
Schedule(MU)	295.0	-283.8	103.2	-114.0	-0.4	0.0		
Actual(MU)	280.1	-279.3	113.5	-119.3	-1.1	-6.1		
O/D/U/D(MU)	-14.9	4.5	10.2	-5.3	-0.7	-6.1		

F. Generation Outage(MW)						
	NR	WR	SR	ER	NER	TOTAL
Central Sector	7210	15993	9452	1770	660	35085
State Sector	16096	14461	12926	6557	11	50051
Total	23306	30454	22378	8327	671	85136

G. Sourcewise generation (MU)	NR	WR	SR	ER	NER	All India
Coal	408	1249	426	480	7	2570
Lignite	24	12	30	0	0	66
Hydro	120	25	136	78	18	377
Nuclear	28	21	64	0	0	112
Gas, Naptha & Diesel	21	94	16	0	28	159
RES (Wind, Solar, Biomass & Others)	49	70	151	4	0	275
Total	651	1470	822	563	53	3560
Share of RES in total generation (%)	7.58	4.74	18.38	0.79	0.23	7.72
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	30.28	7.84	42.67	14 73	33.87	21.47

	•
H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.035
Based on State Max Demands	1.076

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: 03-Nov-2020 |
| Export (MU) | NET (MU)

							Date of Reporting:	03-Nov-2020
Impor	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	rt/Export of ER (V	Vith NR)						
2		ALIPURDUAR-AGRA PUSAULI B/B	2	0	700 299	0.0	12.8 7.5	-12.8 -7.5
3		GAYA-VARANASI	2	0	1143	0.0	13.1	-/.5 -13.1
4	765 kV	SASARAM-FATEHPUR	1	0	451	0.0	4.4	-4.4
6		GAYA-BALIA PUSAULI-VARANASI	1	0	560 229	0.0	9.3 4.5	-9.3 -4.5
7	400 kV	PUSAULI -ALLAHABAD	i	Ů	187	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	873	0.0	8.9	-8.9
9 10		PATNA-BALIA BIHARSHARIFF-BALIA	4	0	1135 423	0.0	14.1 5.1	-14.1 -5.1
11	400 kV	MOTIHARI-GORAKHPUR	2	Ö	344	0.0	6.0	-6.0
12		BIHARSHARIFF-VARANASI	2	128	366	0.0	1.6	-1.6
13 14		PUSAULI-SAHUPURI SONE NAGAR-RIHAND		0	77	0.0	1.1 0.0	-1.1 0.0
15		GARWAH-RIHAND	i	20	0	0.4	0.0	0.4
16		KARMANASA-SAHUPURI	11	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	11	0	0 ER-NR	0.0	91.2	-90.9
Impor	rt/Export of ER (V	Vith WR)			EK-, (K	0.4	91.2	-90.9
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1132	0	17.2	0.0	17.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	853	26	10.4	0.0	10.4
3	765 kV	JHARSUGUDA-DURG	2	178	151	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	340	29	4.7	0.0	4.7
5	400 kV	RANCHI-SIPAT	2	302	10	4.7	0.0	4.7
6		BUDHIPADAR-RAIGARH	1	0	141	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	125	0	1.8	0.0	1.8
Imner	rt/Export of ER (V	Vith SR)			ER-WR	38.9	2.3	36.6
1mpor		JEYPORE-GAZUWAKA B/B	2	0	432	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2874	0.0	54.2	-54.2
5	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	402	217	3.6 0.0	0.0	3.6 0.0
			-	•	ER-SR	0.0	104.8	-104.8
	rt/Export of ER (V				262			
2		BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0	293 183	0.0	4.6 5.0	-4.6 -5.0
3		ALIPURDUAR-SALAKATI	2	0	66	0.0	1.4	-5.0 -1.4
F			-	-	ER-NER	0.0	11.0	-11.0
Impor 1	rt/Export of NER HVDC	(With NR) BISWANATH CHARIALI-AGRA	,	0	702	0.0	12.0	12.0
					703 NER-NR	0.0	13.0 13.0	-13.0 -13.0
Impor	rt/Export of WR (
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	20.4	-20.4
3		VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	447	0 1646	10.6 0.0	0.0 36.8	10.6 -36.8
4		GWALIOR-AGRA	2	ŏ	2665	0.0	51.8	-51.8
5		PHAGI-GWALIOR	2	0	1825	0.0	29.5	-29.5
7		JABALPUR-ORAI GWALIOR-ORAI	2	0 628	1213 0	0.0 10.0	42.2 0.0	-42.2 10.0
8		SATNA-ORAI	i	0	1608	0.0	34.1	-34.1
9	765 kV	CHITORGARH-BANASKANTHA	2	0	976	0.0	12.1	-12.1
10		ZERDA-KANKROLI	1	23	200	0.0	1.3	-1.3
11		ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	978	441 0	0.0 22.6	4.2 0.0	-4.2 22.6
13	400 kV	RAPP-SHUJALPUR	2	0	463	0.0	5.4	-5.4
14		BHANPURA-RANPUR	1	0	145	0.0	1.9	-1.9
15 16		BHANPURA-MORAK MEHGAON-AURAIYA	1	11 111	0	0.2	0.3 0.1	-0.1 0.3
17	220 kV	MALANPUR-AURAIYA	i	66	20	1.1	0.0	1.1
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0		
Impor					WD_ND		0.0	0.0
1	rt/Export of WR (With SR)			WR-NR	44.9	240.1	0.0 -195.1
		BHADRAWATI B/B	-	0	265	0.0	240.1	-195.1 -6.3
2	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	726	265 151	0.0 0.0	240.1 6.3 1.7	-195.1 -6.3 -1.7
3 4	HVDC HVDC 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2 2 2		265	0.0	240.1	-195.1 -6.3
3 4 5	HVDC HVDC 765 kV 765 kV 400 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2 2	726 11 0 474	265 151 2120 1897 0	0.0 0.0 0.0 0.0 0.0 6.7	240.1 6.3 1.7 27.0 26.0 0.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7
3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2	726 11 0 474	265 151 2120 1897 0	0.0 0.0 0.0 0.0 0.0 6.7 0.0	240.1 6.3 1.7 27.0 26.0 0.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0
3 4 5	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2	726 11 0 474 0	265 151 2120 1897 0 0	0.0 0.0 0.0 0.0 0.0 0.0 6.7 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2 2	726 11 0 474	265 151 2120 1897 0	0.0 0.0 0.0 0.0 0.0 6.7 0.0	240.1 6.3 1.7 27.0 26.0 0.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 1	726 11 0 474 0	265 151 2120 1897 0 0 0 45 WR-SR	0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0 0.8 -53.5
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1	726 11 0 474 0 1 1 0	265 151 2120 1897 0 0 0 0 45 WR-SR	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.0 0.8 7.5	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0 0.8 -53.5 Energy Exchange
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 1 1 1 INTER	726 11 0 474 0 11 0 NATIONAL EXCHA!	265 151 2120 1897 0 0 0 45 WR-SR	0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0 0.8 -53.5
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 INTER	726 11 0 474 1 1 1 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2	265 151 2120 1897 0 0 0 0 45 WR-SR	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.0 0.8 7.5	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0 0.8 -53.5 Energy Exchange
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPURDUAR RE MANGDECHU HEP 4	726 11 0 474 0 11 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW)	265 151 2120 1897 0 0 45 WR-SR	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.8 7.5 Min (MW)	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW)	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0 0.8 -53.5 Energy Exchange (MII)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.c. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI	726 11 0 474 0 1 1 0 0 1 1 0 NATIONAL EXCHA! Name Value Lalipurduar 1&2 CEIPT (from *180MW) RI 1,2.4 (& 400kV	265 1151 2120 1897 0 0 0 45 WR-SR NGES Max (MW)	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.8 7.5 Min (MW)	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW)	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.8 -53.5 Energy Exchange (MII)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 INTER Line 400RV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400RV TALA-BINAGI MALBASE - BINAGU MECEIPT (from TAL/	726 11 0 474 0 474 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 12,12 (4 400kV RI) i.e. BINAGURI	265 151 2120 1897 0 0 45 WR-SR	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.8 7.5 Min (MW)	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW)	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.0 0.8 -53.5 Energy Exchange (MII)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPUNAR RE MANGDECHU HEP 4 400kV TALA-BINAGU RECEIPT (from TAL).	726 11 0 474 0 474 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI 1,24 (& 400kV) RI 1,24 (& 400kV	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW)	44,9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR	726 11 0 474 0 0 15 10 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI BEP (64170MW) PARA I&2 (& 220kV	265 1151 2120 1897 0 0 0 45 WR-SR NGES Max (MW)	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.8 7.5 Min (MW)	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW)	-195.1 -6.3 -1.7 -27.0 -26.0 6.7 0.0 0.8 -53.5 Energy Exchange (MII)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/	726 111 0 474 0 474 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW) RI 1;2,4 (4 400kV RI) i.e. BINAGURI HEP (6+170MW) PARA 1&2 (& 220kV A) i.e. BIRPAK KHA HEP 4*84MW)	265 151 2120 1897 0 0 0 45 WR-SR WGES Max (MW) 262	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 61.0 Avg (MW) 262	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR	726 111 0 474 0 474 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW) RI 1;2,4 (4 400kV RI) i.e. BINAGURI HEP (6+170MW) PARA 1&2 (& 220kV A) i.e. BIRPAK KHA HEP 4*84MW)	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW)	44,9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 INTER INTER LINE 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH ie. ALIPURDUAR RE 400KV TALA-BINAGU RECEIPT (from TAL) ZUNCY CHUKHA-BIR MALBASE - BIRAFAR RECEIPT (from CHUI 132KV-GEYLEGPHU	726 11 0 474 0 474 0 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI 1,24 (& 400kV A) i.e. BINAGURI HEP (6*1704IW) PARA 1&2 (& 2270kV A) i.e. BIRPARA KIA HEP 4*84MW) - SALAKATI	265 151 2120 1897 0 0 0 45 WR-SR WGES Max (MW) 262	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 61.0 Avg (MW) 262	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/	726 11 0 474 0 474 0 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI 1,24 (& 400kV A) i.e. BINAGURI HEP (6*1704IW) PARA 1&2 (& 2270kV A) i.e. BIRPARA KIA HEP 4*84MW) - SALAKATI	265 151 2120 1897 0 0 0 45 WR-SR WGES Max (MW) 262	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 61.0 Avg (MW) 262	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ 220kV CHUKHA-BIR RECEIPT (from TAL/ 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	726 11 0 474 0 475 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from "FROMW) RI 1,24 (& 400kV RI 1,24 (& 400kV ARA 1&2 (& 20kV 4) i.e. BIRPARA (kil HEP 4*84MW) - SALAKATI	265 151 2120 1897 0 0 45 WR-SR NGES Max (MW) 262 531	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.8 7.5 Min (MW) 262	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450	-195.1 -6.3 -1.7 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MH) -6.4 10.8 2.7
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGI RECEIPT (fm TALA-BINAGI RECEIPT (fm TALA-BINAGI MALBASE - BINAGU RECEIPT (fm CHUI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	726 11 0 474 0 475 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR I&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI) 1,24 (& 400kV RI) 1,24 (& 400kV A) i.e. BIRAGURI HEP (6*170MW) PARA I&2 (& 2270kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	265 151 2120 1897 0 0 45 WR-SR NGES Max (MW) 262 531	44.9 0.0 0.0 0.0 0.0 0.0 6.7 0.0 0.8 7.5 Min (MW) 262	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450	-195.1 -6.3 -1.7 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MH) -6.4 10.8 2.7
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI Region ER ER ER NER	2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ 220kV CHUKHA-BIR RECEIPT (from TAL/ 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	726 11 0 474 0 475 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR I&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI) 1,24 (& 400kV RI) 1,24 (& 400kV A) i.e. BIRAGURI HEP (6*170MW) PARA I&2 (& 2270kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	265 151 2120 1897 0 0 0 45 WR-SR WGES Max (MW) 262 531	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI Region ER ER ER NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGI RECEIPT (fm TALA-BINAGI RECEIPT (fm TALA-BINAGI MALBASE - BINAGU RECEIPT (fm CHUI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	726 11 0 0 474 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV R) R) LE (\$0.170MW) PARA 1&2 (& 4220kV A) i.e. BIRPARA A (LIR HEP (*4.484MW) - SALAKATI ia	265 151 2120 1897 0 0 0 45 WR-SR WGES Max (MW) 262 531	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER FR NER NER	2 2 2 2 1 1 INTER LINE LINE 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH ie. ALIPURDUAR RE HONGOW TALA-BINAGU RECEIPT (from TAL- 220KV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(MAHENDRANAGAR	726 11 0 0 474 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV R) R) LE (\$0.170MW) PARA 1&2 (& 4220kV A) i.e. BIRPARA A (LIR HEP (*4.484MW) - SALAKATI ia	265 151 2120 1897 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.0 -0.8 -53.5
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI REGION ER ER NER NER NER NER NER NER	2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-CHUKHA-BIR RECEIPT (from TAL- 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR() MAHENDRANAGAR 132KV-BIHAR - NEP,	726 11 0 0 474 0 174 10 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW) RI 1;2,4 (4 400kV RI) i.e. BINAGURI LIEP (6*10MW) PARA 1&2 (& 220kV A) i.e. BIRPAGURI A) i.	265 151 2120 1897 0 0 45 WR-SR WGES Max (MW) 262 531 172 23 39 -28	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8 -0.8 -1.1
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER FR NER NER	2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-CHUKHA-BIR RECEIPT (from TAL- 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR() MAHENDRANAGAR 132KV-BIHAR - NEP,	726 11 0 0 474 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV R) R) LE (\$0.170MW) PARA 1&2 (& 4220kV A) i.e. BIRPARA A (LIR HEP (*4.484MW) - SALAKATI ia	265 151 2120 1897 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.0 -0.8 -53.5
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI REGION Region ER ER IR ER NER NER NER NER NE	2 2 2 2 1 1 INTER INTER LINE 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH ie. ALIPURDUAR RE 400KV TALA-BINAGU RECEIPT (from TAL) 220KV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(MAHENDRANAGAR 132KV-BIHAR - NEP, 220KV-MUZAFFARP	726 11 0 0 474 10 0 1474 10 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 1880MW) IRI 1,24 (& 400kV RI	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28 -129	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8 -44	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI REGION ER ER NER NER NER NER NER NER	2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-CHUKHA-BIR RECEIPT (from TAL- 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR() MAHENDRANAGAR 132KV-BIHAR - NEP,	726 11 0 0 474 10 0 1474 10 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 1880MW) IRI 1,24 (& 400kV RI	265 151 2120 1897 0 0 45 WR-SR WGES Max (MW) 262 531 172 23 39 -28	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8 -0.8 -1.1
3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI REGION ER ER ER NER NER NER NER NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-GHUKHA-BIR RECEIPT (from TAL/ 220kV CHUKHA-BIR RECEIPT (from TAL/ 220kV CHUKHA-BIR AGERIPT (From TAL/ 220kV-THUKHA-BIR AGERIPT (From TAL/ 220kV-THUKHA-BIR 132kV-TANAKPUR(MAHENDRANAGAR 132kV-TANAKPUR(MAHENDRANAGAR 132kV-BIHAR - NEP.	726 11 0 474 0 475 0 11 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1;2,4 4906V RI 1;2,4 4906V RI 1;2,4 4906V ARA 1&2 (& 220KV 4) 1;6 BIRPARA AL WH-PASAMW) -SALAKATI ia	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28 -129 -96 -926	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8 -44 -32	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8 -0.2 -1.1 -0.8 -21.8
3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI REGION Region ER ER IR ER NER NER NER NER NE	2 2 2 2 1 1 INTER INTER LINE 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH ie. ALIPURDUAR RE 400KV TALA-BINAGU RECEIPT (from TAL) 220KV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(MAHENDRANAGAR 132KV-BIHAR - NEP, 220KV-MUZAFFARP	726 11 0 474 0 4774 0 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400KV IRI 1,24 (& 400KV A) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 2270KV A) i.e. BIRPARA KIH ALEP 4*84MW) - SALAKATI ia KIH - PG UUR - DHALKEBAR DC (BANGLADESH) NAGAR -	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28 -129	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8 -44	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -0.8 -0.2 -1.1
3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI REGION ER ER ER NER NER NER NER NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RE MANGDECHI i.e. ALIPURDUAR RE MANGDECHI i.e. ALIPURDUAR RE MANGDECHI 10 SENSON SENS	726 11 0 474 0 4774 0 0 1 1 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400KV IRI 1,24 (& 400KV IRI 1,24 (& 400KV A) i.e. BIRPARA KIHA HEP 4*84MW) - SALAKATI ia KIH 1,0 IRI 1,0	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28 -129 -96 -926	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8 -44 -32	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8 -0.2 -1.1 -0.8 -21.8
3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-KUBGI REGION ER ER ER NER NER NER NER NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH i.e. ALIPURDUAR RE MANGDECHH i.e. ALIPURDUAR RE HONEV MANGDECHH i.e. ALIPURDUAR RE HONEV MANGDECHH 10 LIPUR AND ALIPUR MALBASE - BINAGU RECEIPT (from TAL- 200kV CHUKIA-BIR MALBASE - BIRPAR RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR(MAHENDRANAGAR 132kV-BIHAR - NEP. 220kV-MUZAFFARP BHERAMARA HVDC 132kV-SURAJMANI 132kV-SURAJMANI	726 11 10 0 474 0 174 10 0 174 10 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) RI 1;2,4 490kV RI 1;2,4 490kV ARA 1&2 (& 220kV A) 1;6 BIRAGUR LIEP (& 170MW) ARA 1&3 (& 220kV A) 1;6 BIRPARA LIER (& 170MW) - SALAKATI III III III III III III III III III	265 151 2120 1897 0 0 0 45 WR-SR NGES Max (MW) 262 531 172 23 39 -28 -129 -96 -926	44.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	240.1 6.3 1.7 27.0 26.0 0.0 0.0 0.0 61.0 Avg (MW) 262 450 114 -16 -33 -8 -44 -32	-195.1 -6.3 -1.7 -27.0 -26.0 -6.7 -0.0 -0.8 -53.5 Energy Exchange (MII) -6.4 -10.8 -2.7 -0.4 -0.8 -0.2 -1.1 -0.8 -21.8