

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

दिनांक: 11th Jan 2021

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 10.01.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-जनवरी -2021 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 10th January 2021, 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: 11-Jan-2021

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	46084	49639	36779	17540	2425	152467
Peak Shortage (MW)	780	0	0	0	48	828
Energy Met (MU)	923	1179	848	363	43	3356
Hydro Gen (MU)	102	40	52	32	12	237
Wind Gen (MU)	20	72	34		-	126
Solar Gen (MU)*	35.71	23.64	80.38	4.50	0.10	144
Energy Shortage (MU)	12.40	0.00	0.00	0.00	0.54	12.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48916	56867	40090	18078	2478	162343
Time Of Maximum Demand Met (From NLDC SCADA)	09:51	10:51	08:18	18:58	18:14	09:54

B. Frequency Profile (%)

Region FVI < 49.7 49.7 49.8 49.8 + 49.9 < 49.9 49.9 - 50.05 > 50.05

All India 0.028 0.00 0.00 4.75 4.75 80.36 14.90

All India	0.028	0.00	0.00	4.75	4.75	80.36	14.90	
C. Power Sup	ply Position in States							
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	0.00	Schedule	(MITT)	(3.631)	Shortage
		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	6098	0	114.1	57.3	-1.4	74	0.00
	Haryana	5566	0	109.6	82.2	0.5	235	0.00
	Rajasthan	12480	0	230.2	77.4	-0.6	358	0.00
	Delhi	4184	0	67.9	57.2	-1.3	195	0.00
NR	UP	15483	0	274.3	74.6	-1.4	515	0.00
	Uttarakhand	2072	0	38.0	20.6	0.4	238	0.00
	HP	1692	0	30.8	25.5	-0.1	92	0.00
	J&K(UT) & Ladakh(UT)	2713	600	54.3	48.3	0.4	306	12.40
	Chandigarh	216	0	3.8	3.6	0.2	48	0.00
	Chhattisgarh	4108	0	89.6	41.6	-0.2	261	0.00
	Gujarat	16652	0	338.5	110.8	1.8	630	0.00
	MP	13211	0	259.7	155.3	-1.5	583	0.00
WR	Maharashtra	20848	0	435.5	157.1	-3.7	701	0.00
	Goa	472	0	11.3	10.7	0.1	30	0.00
	DD	301	0	6.9	6.9	0.0	17	0.00
	DNH	819	0	19.2	19.4	-0.2	34	0.00
	AMNSIL	829	0	18.6	10.9	0.2	266	0.00
	Andhra Pradesh	8296	0	163.0	68.2	0.1	559	0.00
	Telangana	11308	0	211.1	93.0	0.4	893	0.00
SR	Karnataka	8686	0	165.3	63.9	-1.8	517	0.00
	Kerala	3207	0	63.7	48.9	0.2	329	0.00
	Tamil Nadu	11473	0	238.7	154.1	-0.4	378	0.00
	Puducherry	318	0	6.5	6.8	-0.3	19	0.00
	Bihar	4622	0	83.6	78.2	1.3	477	0.00
	DVC	3027	0	64.2	-37.3	1.0	400	0.00
	Jharkhand	1454	0	26.0	19.4	-1.9	164	0.00
ER	Odisha	4025	0	70.0	11.4	-4.1	540	0.00
	West Bengal	6168	0	117.4	10.8	0.3	490	0.00
	Sikkim	126	0	1.8	1.7	0.1	40	0.00
	Arunachal Pradesh	136	1	2.2	2.5	-0.4	27	0.01
	Assam	1352	18	23.2	18.1	0.0	89	0.50
	Manipur	222	2	2.9	3.3	-0.4	15	0.01
NER	Meghalaya	358	0	6.9	5.2	-0.1	22	0.00
	Mizoram	105	1	1.7	1.4	-0.1	19	0.01
	Nagaland	124	1	2.2	2.0	0.0	21	0.01
	Tripura	213	0	3.4	2.5	-0.5	16	0.00

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

 Bhutan
 Nepal
 Bangladesh

 Actual (MU)
 5.3
 -12.1
 -17.0

 Day Peak (MW)
 245.0
 -623.0
 -850.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.0	-217.4	95.2	-95.4	-0.5	0.0
Actual(MU)	211.6	-220.1	89.4	-87.6	-1.0	-7.6
[O/D/II/D(MII)	-6.4	-2.7	-5 Q	7.8	-0.5	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6049	13263	6852	3020	699	29882
State Sector	12574	17628	10939	6212	11	47363
Total	18623	30890	17791	9232	710	77245

G. Sourcewise generation (MU)

G. Bourcewise generation (Me)						
	NR	WR	SR	ER	NER	All India
Coal	482	1227	460	452	7	2628
Lignite	23	8	28	0	0	58
Hydro	102	40	52	32	12	237
Nuclear	18	21	64	0	0	104
Gas, Naptha & Diesel	23	24	12	0	30	89
RES (Wind, Solar, Biomass & Others)	85	96	152	5	0	339
Total	734	1416	768	488	49	3455
CI APPOLLATION (ACC)						
Share of RES in total generation (%)	11.65	6.81	19.79	0.93	0.21	9.80
Chang of Non-food finel (Hydro Nyelson and DEC) in total conception (9/)	20.05	11 11	24.02	T 45	24.14	10.60

H. All India Demand Diversity Factor

111 : In India Denama Diversity Tuctor	
Based on Regional Max Demands	1.025
Based on State Max Demands	1.065

Based on State Max Demands

1.005

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: 11-Jan-2021

SI					I		Date of Reporting:	11-Jan-2021
No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	t/Export of ER (\) HVDC	With NR) ALIPURDUAR-AGRA	1 2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B		0	251	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	Ö	875	0.0	9.5	-9.5
4	765 kV	SASARAM-FATEHPUR	1	46	209	0.0	1.4	-1.4
6	765 kV 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0	441 229	0.0	6.8 4.8	-6.8 -4.8
7	400 kV	PUSAULI -ALLAHABAD	i	0	85	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	Ö	744	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	4	0	979	0.0	14.0	-14.0
10 11	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2	0	335 344	0.0	4.0 4.9	-4.0 -4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	111	245	0.0	0.1	-0.1
13	220 kV	PUSAULI-SAHUPURI	1	96	37	0.9	0.0	0.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 16	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	20	0	0.4	0.0	0.4
17		KARMANASA-CHANDAULI	i	Ö	Ö	0.0	0.0	0.0
					ER-NR	1.3	58.5	-57.2
	t/Export of ER (===				
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	739	14	6.7	0.0	6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	701	126	7.4	0.0	7.4
3	765 kV	JHARSUGUDA-DURG	2	24	229	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	127	323	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	263	40	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	14	119	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	120	6 ED WD	1.4	0.0	1.4
Imper	t/Export of ER (With SR)			ER-WR	18.5	6.7	11.8
1	HVDC	JEYPORE-GAZUWAKA B/B	_2	0	430	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	35.8	-35.8
3	765 kV	ANGUL-SRIKAKULAM	2	670	2635	0.0	45.6	-45.6
5	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	679	876 0	0.0	0.8	-0.8 0.0
					ER-SR	0.0	91.4	-91.4
	t/Export of ER (
1		BINAGURI-BONGAIGAON	2	256	61	3.0	0.0	3.0
3		ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	423 71	72 17	4.8	0.0	4.8
			. 4	71	ER-NER	0.8 8.6	0.0	0.8 8.6
	t/Export of NER	(With NR)						
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0 NED ND	8.1	0.0	8.1
Impor	t/Export of WR (With ND			NER-NR	8.1	0.0	8.1
1 1 1	HVDC	CHAMPA-KURUKSHETRA	2	0	1807	0.0	29.5	-29,5
2	HVDC	VINDHYACHAL B/B	-	239	57	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	37.0	-37.0
4	765 kV	GWALIOR-AGRA	2	0	2393	0.0	40.0	-40.0
6	765 kV 765 kV	PHAGI-GWALIOR JABALPUR-ORAI	2	0	1496 1094	0.0	22.7 33.7	-22.7 -33.7
7	765 kV	GWALIOR-ORAI	1	790	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1377	0.0	25.8	-25.8
9	765 kV	CHITORGARH-BANASKANTHA	2	613	832	0.0	6.1	-6.1
10	400 kV	ZERDA-KANKROLI	1 1	185	89	0.9	0.0	0.9
11 12	400 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	153 486	239	0.0 11.4	1.3 0.0	-1.3 11.4
13	400 kV	RAPP-SHUJALPUR	2	74	564	0.0	4.2	-4.2
14	220 kV	BHANPURA-RANPUR	1	0	144	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16 17	220 kV 220 kV	MEHGAON-AURAIYA	1	128	3	0.8 1.7	0.0	0.8 1.7
18	132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	i	78 0	0	0.0	0.0	0.0
19		RAJGHAT-LALITPUR	2	Ö				
,					0	0.0	0.0	0.0
		THE OR			0 WR-NR			
1	rt/Export of WR (ī		WR-NR	0.0 31.1	0.0 203.6	0.0 -172.5
	HVDC	BHADRAWATI B/B	- 2	0	WR-NR 414	0.0	0.0 203.6 8.4	0.0 -172.5 -8.4
3			2 2		WR-NR	0.0 31.1 0.0	0.0 203.6	0.0 -172.5
2 3 4	HVDC HVDC 765 kV 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD		0 957 906 0	WR-NR 414 498 1771 2380	0.0 31.1 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1	0.0 -172.5 -8.4 -4.6 -13.2 -31.1
2 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	0 957 906 0	WR-NR 414 498 1771 2380 0	0.0 31.1 0.0 0.0 0.0 0.0 21.5	0.0 203.6 8.4 4.6 13.2 31.1 0.0	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5
2 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	0 957 906 0	WR-NR 414 498 1771 2380 0 0	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 0.0
2 3 4 5	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2 2	0 957 906 0	WR-NR 414 498 1771 2380 0 0 41	0.0 31.1 0.0 0.0 0.0 0.0 21.5	0.0 203.6 8.4 4.6 13.2 31.1 0.0	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5
2 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 PONDA-AMBEWADI	2 2 2 2 2 1	0 957 906 0 1494 0 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 0.0
2 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 PONDA-AMBEWADI	2 2 2 2 2 1	0 957 906 0	WR-NR 414 498 1771 2380 0 0 41 WR-SR	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 0.2 -35.6
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KO-HAPUR-KUDGI KO-HAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1	0 957 906 0 1494 0 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 0.0 0.2 -35.6 Energy Exchange
2 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	2 2 2 2 1 1 1 INTER	0 957 906 0 1494 0 1 1 1 2NATIONAL EXCHA!	WR-NR 414 498 1771 2380 0 0 41 WR-SR	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 -0.0 0.2 -35.6
2 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 Region	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHE	0 957 906 0 1494 0 1 1 1 2NATIONAL EXCHAI	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW)	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 0.0 57.3	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 0.0 0.0 0.2 -35.6 Energy Exchange
2 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 KO-HAPUR-KUDGI KO-HAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 1 1 1 1 1 INTER Line 400kV MANGDECHE Le. ALIPURDUAL RE MANGDECHE HEP A	0 957 906 0 0 1494 1494 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 0.0 0.2 -35.6 Energy Exchange
2 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-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 2 1 1 1 1 1 INTER Line 400kV MANGDECHI ic. ALIPURDUAR RE MANGDECHI HE? 4 400kV TALA BINAGI	0 957 906 0 1494 0 1 1 1 1 2NATIONAL EXCHA! Name IU-ALIPURDUAR I &2 CEIPT (from 19 180MW) USI 1,2,4 (& 400KV	WR-NR 414 498 1771 2380 0 0 0 WR-SR WGES Max (MW)	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 0.0 0.0 0.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	0.0 203.6 8.4 4.6 4.6 0.0 0.0 0.0 57.3 Avg (MW)	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8
2 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 Region	2 2 2 2 2 1 1 1 1 1 INTER Line 400kV MANGDECHE Le. ALIPURDUAL RE MANGDECHE HEP A	0 957 906 0 0 1494 1494 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW)	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 0.0 57.3	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 21.5 0.0 0.0 0.2 -35.6 Energy Exchange
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	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 INTER INTER Line 400kV MANGDECHI Le. ALIPURDUA R R MANGDECHI HEP 4 400kV TALA-BINAG MALBASE BINAGG RECEIPT (from TAL 220kV CHUKHA-BIR	0 957 906 0 1494 1494 1 1 1 1 RNATIONAL EXCHA! Name IU-ALIPURDUAR 1&2 2CEIPT (from #180MW) URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV RID 1,6 BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV	WR-NR 414 498 1771 2380 0 0 0 WR-SR WGES Max (MW)	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7 Min (MW)	0.0 203.6 8.4 4.6 4.6 0.0 0.0 0.0 57.3 Avg (MW)	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -2.3
2 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-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHE i.e. ALIPURDUAR RE MANGDECHE HEP > 400kV TALBAINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BIRPAR MALBASE - BIRPAR	0 957 906 0 1494 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 0 WR-SR WGES Max (MW)	0.0 31.1 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 0.0 0.0 0.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	0.0 203.6 8.4 4.6 4.6 0.0 0.0 0.0 57.3 Avg (MW)	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	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 INTER INTER Line 400kV MANGDECHI Le. ALIPURDUA R R MANGDECHI HEP 4 400kV TALA-BINAG MALBASE BINAGG RECEIPT (from TAL 220kV CHUKHA-BIR	0 957 906 0 1494 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7 Min (MW)	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -2.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	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 MANGDECHE i.e. ALIPURDUAR RE MANGDECHE HEP > 400kV TALBAINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BIRPAR MALBASE - BIRPAR	0 957 906 0 1494 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 0.2 21.7 Min (MW)	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -2.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECH i.e. ALIPURDUAR RE MANGPECHU HEP - 400kV TALBINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BIRPAR RECEIPT (from TAL 220kV CHUKHIA-BIR RECEIPT (from CHU	0 957 906 0 1494 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR WGES 125 107	0.0 31.1 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 1.7 Min (MW) 113	0.0 203.6 8.4 4.6 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115	0.0 -172.5 -8.4 -4.6 -13.2 -3.1.1 -2.1.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -2.3 -0.1
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPIUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER ER	2 2 2 2 2 1 1 INTER LINE LINE LINE 400KV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP. 400KV TALA-BINAG MALBASE - BINAG RECEIPT (from TAL RECEIPT (from CHU 132KV-GEYLEGPHU	0 957 906 0 0 1494 0 1494 1 1 1 INATIONAL EXCHA! Name INALIPURDUAR 1&2 2CEIPT (from 4*180MW) URI 1,2,4'(& 400kV) URI 1,2,4'(& 400kV) URI 1,2,4'(& 400kV) A HEP (6*170MW) PARA 1&2 (& 42 270kV) A) i.e. BIRAGURI A HEP 4*84MW) - SALAKATI	WR-NR 414 498 1771 2380 0 0 41 WR-SR WGES Max (MW) 125 107 6	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -0.1 -0.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECH i.e. ALIPURDUAR RE MANGPECHU HEP - 400kV TALBINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BIRPAR RECEIPT (from TAL 220kV CHUKHIA-BIR RECEIPT (from CHU	0 957 906 0 0 1494 0 1494 1 1 1 INATIONAL EXCHA! Name INALIPURDUAR 1&2 2CEIPT (from 4*180MW) URI 1,2,4'(& 400kV) URI 1,2,4'(& 400kV) URI 1,2,4'(& 400kV) A HEP (6*170MW) PARA 1&2 (& 42 270kV) A) i.e. BIRAGURI A HEP 4*84MW) - SALAKATI	WR-NR 414 498 1771 2380 0 0 41 WR-SR WGES 125 107	0.0 31.1 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 1.7 Min (MW) 113	0.0 203.6 8.4 4.6 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115	0.0 -172.5 -8.4 -4.6 -13.2 -3.1.1 -2.1.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -2.3 -0.1
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER	2 2 2 2 1 1 INTER 2 2 1 1 1 INTER Line G00kV MANGDECHI ic. ALIPURDUAR RE MANGDECHU HEP- 400kV TAL-BINAGI MALBASE - BINAGI MAL	0 957 906 906 1494 0 1494 1 1 11 11 11 11 11 11 11 11 11 11 11 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES 107 6 -22	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.7 1.7 Min (MW) 113	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -3.3 -0.1 -0.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPIUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER ER	2 2 2 2 2 1 1 INTER Line 400KV MANGDECHI Le. ALIPURDUAR RE MANGBECHI HEP - 400KV TALA-BINAGI MALBASE - BINAGI RECEIPT (from TAL ZUNY CHUKHA-BIR MALBASE - BIRAGI MALBASE - BIRAG	0 957 906 906 1494 0 1494 1 1 11 11 11 11 11 11 11 11 11 11 11 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR WGES Max (MW) 125 107 6	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -0.1 -0.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP - 400kV TALA-BINAGI RECEIPT (from TAL 20kV CHUKHA-BIR MALBASE - BINAGI RECEIPT (from CHU 132kV-GEYLEGPH 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR	0 957 906 0 0 1494 0 1494 1 1 1 1 INATIONAL EXCHA! Name INALIPURDUAR 1&2 2CEIPT (from #180MV) URI 1,2,4 (& 400KV) URI 1,2,4 (& 400KV) URI 1,2,4 (& 400KV) A 1EP (8-120MV) PARA 1&2 (& 220KV A) 1.c. BIRPARA KHA HEP 4*84MW) 1- SALAKATI ja NH) -	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES 107 6 -22	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.7 1.7 Min (MW) 113	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -3.3 -0.1 -0.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP - 400kV TALA-BINAGI RECEIPT (from TAL 20kV CHUKHA-BIR MALBASE - BINAGI RECEIPT (from CHU 132kV-GEYLEGPH 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR	0 957 906 906 1494 0 1494 1 1 11 11 11 11 11 11 11 11 11 11 11 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES 107 6 -22	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.7 1.7 Min (MW) 113	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -3.3 -0.1 -0.3
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP - 400kV TALA-BINAGI RECEIPT (from TAL 20kV CHUKHA-BIR MALBASE - BINAGI RECEIPT (from CHU 132kV-GEYLEGPH 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR	0 957 906 0 0 1494 0 1494 1 1 1 1 INATIONAL EXCHA! Name INALIPURDUAR 1&2 2CEIPT (from #180MV) URI 1,2,4 (& 400KV) URI 1,2,4 (& 400KV) URI 1,2,4 (& 400KV) A 1EP (8-120MV) PARA 1&2 (& 220KV A) 1.c. BIRPARA KHA HEP 4*84MW) 1- SALAKATI ja NH) -	WR-NR 414 498 1771 2380 0 0 41 WR-SR WGES Max (MW) 125 107 6 -22 -6 -75	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -0.1 -0.3 -0.1 -1.6
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP - 400kV TALA-BINAGI RECEIPT (from TAL 20kV CHUKHA-BIR MALBASE - BINAGI RECEIPT (from CHU 132kV-GEYLEGPH 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR	0 957 906 0 1494 0 1494 1 1 1 1 11 11 11 11 11 11 11 11 11 11	WR-NR 414 498 1771 2380 0 0 41 WR-SR WGES Max (MW) 125 107 6 -22 -6 -75	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -0.1 -0.3 -0.1 -1.6
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KO-HAPUR-KUDGI KO-HAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER NER NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI Le, ALIPURDUAR RE MANGDECHI HEP- 400kV TALA BINAG MALBASE - BINAGC 132kV-GHU-BIPAR RECEIPT (from TAL- 132kV-GEYLEGPHU 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR 400KV-MUZAFFARF	0 957 906 0 1494 0 1494 1 1 1 1 11 11 11 11 11 11 11 11 11 11	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125 107 622675	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 21.7 Min (MW) 113 0 -7	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -65	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -3.3 -0.1 -0.3 -0.0 -1.6
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOJHAPUR-KUDGI KOJHAPUR-KUDGI KOJHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER NER NER NER ER	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP - 400kV TALA-BINAG RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BINAGR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR 400kV-MUZAFFARF 132KV-BIHAR - NEP	0 957 906 0 0 1494 0 1494 0 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 0 WR-SR WR-SR 125 107 6 -22 -6 -75 -282	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1 -65	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -0.3 -0.1 -0.3 -0.1 -0.3 -0.0 -1.6 -6.7 -3.8
2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KO-HAPUR-KUDGI KO-HAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER NER NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI Le, ALIPURDUAR RE MANGDECHI HEP- 400kV TALA BINAG MALBASE - BINAGC 132kV-GHU-BIPAR RECEIPT (from TAL- 132kV-GEYLEGPHU 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR 400KV-MUZAFFARF	0 957 906 0 0 1494 0 1494 0 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125 107 622675	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 21.7 Min (MW) 113 0 -7	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -65	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -35.6 Energy Exchange (MII) -2.8 -3.3 -0.1 -0.3 -0.0 -1.6
2 3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER NER ER ER ER E	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP - 400kV TALA-BINAG RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BINAGR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rang 132kV-TANAKPUR(MAHENDRANAGAR 400kV-MUZAFFARF 132KV-BIHAR - NEP	0 957 906 0 1494 0 1494 0 11 1 1 1 ENATIONAL EXCHAI Name IU-ALIPURDUAR 1&2 2CEIPT (from #2180MV) URI 1,2,4 (& 400MV RIP RI	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125 107 6 -22 -6 -75 -282 -266 -747	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 1.7 Min (MW) 113 0 -7 0 -210 -23 -437	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1 -65 -281 -157	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -2.3 -0.1 -0.3 -0.6 -1.6 -6.7 -3.8
2 3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOJHAPUR-KUDGI KOJHAPUR-KUDGI KOJHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER NER NER NER ER	2 2 2 2 1 1 INTER LINE LINE LINE LINE 400KV MANGDECHI Le. ALIPURDUAR RE MANGBECHI HEP 4 400KV TALA-BINAGI RECEIPT (from TAL 132KV-GEYLEGPHL 132KV-GEYLEGPHL 132KV-TANAKPURG MAHENDRANAGAR 400KV-MUZAFFARF 132KV-BIHAR - NEP	0 957 906 906 904 1494 0 1494 0 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 0 WR-SR WR-SR 125 107 6 -22 -6 -75 -282	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1 -65	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -0.1 -0.3 -0.0 -1.6 -6.7 -3.8
2 3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER NER ER ER ER E	2 2 2 2 1 1 1 INTER 2 2 1 1 1 INTER Line 400kV MANGBECHI ic. ALIPURDUAR RE MANGBECHI ic. ALIPURDUAR RE MANGBECHI ic. ALIPURDUAR RE MANGBECHI MANGBECHI MANGBECHI MANGBECHI MANGBECHI MANGBECHI MANGBECHI MANGBECHI MANGBECHI MALBASE BHAG MAHENDRANAGAR MANGBECHI MAHENDRANAGAR MAHE	0 957 906 0 1494 0 1494 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125 107 6 -22 -6 -75 -282 -266 -747	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 1.7 Min (MW) 113 0 -7 0 -210 -23 -437	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1 -65 -281 -157	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -0.2 -35.6 Energy Exchange (MII) -2.8 -2.3 -0.1 -0.3 -0.6 -1.6 -6.7 -3.8
2 3 4 5 6 7 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER NER ER ER ER E	2 2 2 2 1 1 INTEE Line 400kV MANGDECHI Le. ALIPURDUAR RE MANGDECHI Le. ALIPURDUAR RE MANGDECHI HEP, 400kV YALA-BINAG RECEIPT (from TAL 250kV CHUKIL-BIR MALBASE - BIRPAR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV-MOLANGARA 400kV-MUZAFFARF 132kV-BIHAR - NEP BHERAMARA HVDC 132kV-BIHAR - NEP	0 957 906 0 0 1494 0 1494 1 1 1 1 1 1 1 1 1	WR-NR 414 498 1771 2380 0 0 41 WR-SR NGES Max (MW) 125 107 6 -22 -6 -75 -282 -266 -747	0.0 31.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 0.0 0.0 22.5 1.7 Min (MW) 113 0 -7 0 -210 -23 -437	0.0 203.6 8.4 4.6 13.2 31.1 0.0 0.0 0.0 57.3 Avg (MW) 115 98 -4 -12 -1 -65 -281 -157	0.0 -172.5 -8.4 -4.6 -13.2 -31.1 -21.5 -0.0 -0.0 -0.2 -35.6 Energy Exchange (MII) -0.3 -0.1 -0.3 -0.6 -1.6 -6.7 -3.8