

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर 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

To.

- 1. कार्यकारी निदेशक, पू.क्षे.भा .प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ 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.,२९ , रेस कोर्स क्रॉस रोड, बंगलुरु –५६०००९ Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 20.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-सितंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 20th September 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: 21-Sep-2020

THE OWNER SUPPLY I SOMEON HE THE INDICATE REGISTRAL REVER	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs^)	64583	43188	30344	22866	2838	163819
Peak Shortage (MW)	0	0	0	0	184	184
Energy Met (MU)	1460	1025	718	485	56	3743
Hydro Gen (MU)	311	101	120	132	24	688
Wind Gen (MU)	4	25	144			174
Solar Gen (MU)*	36.00	24.76	55.49	4.34	0.10	121
Energy Shortage (MU)	0.3	0.0	0.0	0.0	2.6	2.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65889	44420	33042	23155	2850	164173
Time Of Maximum Demand Met (From NLDC SCADA)	22:32	19:02	09:12	00:08	18:21	19:38

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	0.019	0.00	0.00	3.54	3.54	86.18	10.28	
. Power Sup	oply Position in States							
	1	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)	(MIC)		(MU)
NR	Punjab	12252	0	276.3	149.9	-2.6	26	0.0
	Haryana	9679	0	205.4	147.5	0.9	200	0.0
	Rajasthan	11746	0	259.2	85.0	-1.3	321	0.0
	Delhi	5940	0	116.5	100.6	0.0	223	0.0
	UP	23644	170	477.2	217.6	1.8	967	0.3
	Uttarakhand	1778	0	40.6	20.4	0.5	175	0.0
	HP	1305	0	30.2	3.5	-0.2	80	0.0
	J&K(UT) & Ladakh(UT)	2477	0	48.7	25.2	1.1	287	0.0
	Chandigarh	273	0	5.4	5.6	-0.1	25	0.0
	Chhattisgarh	4156	0	98.7	33.9	-0.6	200	0.0
	Gujarat	13369	0	296.1	86.3	0.4	618	0.0
	MP	9629	0	215.8	103.0	-4.1	252	0.0
WR	Maharashtra	16665	0	364.2	124.8	-1.6	598	0.0
	Goa	407	0	8.3	7.6	0.1	66	0.0
	DD	290	0	6.6	6.6	0.0	20	0.0
	DNH	733	0	16.7	16.8	-0.1	72	0.0
	AMNSIL	850	0	18.9	4.6	-0.1	266	0.0
	Andhra Pradesh	6574	0	143.5	37.7	-0.3	357	0.0
	Telangana	6658	0	137.4	51.2	-2.0	447	0.0
SR	Karnataka	6791	0	129.3	47.2	-1.2	625	0.0
	Kerala	2789	0	54.1	27.8	-0.2	139	0.0
	Tamil Nadu	11335	0	246.3	113.6	-5.1	825	0.0
	Puducherry	324	0	7.0	7.4	-0.4	17	0.0
	Bihar	5918	0	123.5	115.6	1.7	500	0.0
	DVC	2980	0	66.3	-39.7	-0.5	340	0.0
	Jharkhand	1778	0	30.2	21.8	-0.1	226	0.0
ER	Odisha	4559	0	93.9	16.8	-0.8	250	0.0
	West Bengal	8299	0	170.1	61.1	2.5	400	0.0
	Sikkim	67	0	0.9	1.2	-0.2	20	0.0
	Arunachal Pradesh	119	1	2.2	2.0	0.2	34	0.0
	Assam	1901	100	36.4	31.8	0.6	153	2.5
	Manipur	156	1	2.8	2.5	0.3	33	0.0
NER	Meghalaya	287	0	5.5	1.0	-0.4	36	0.0
	Mizoram	87	1	1.7	1.0	0.4	33	0.0
	Nagaland	134	1	2.4	2.5	-0.4	12	0.0
		2.00	20	4.0		0.2		0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.0	-2.6	-26.2
Day Peak (MW)	2254.0	-109.2	-1130.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.0	-306.8	50.1	-97.9	1.6	0.0
Actual(MU)	357.4	-318.6	30.0	-77.6	2.0	-6.8
O/D/U/D(MU)	4.4	-11.8	-20.1	20.3	0.3	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3601	16868	14112	2655	309	37545
State Sector	6894	19415	18032	5355	47	49742
Total	10495	36283	32144	8010	355	87288
	10150	20202	U2111	0010	000	0.200

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	665	1109	232	455	10	2471
Lignite	31	11	27	0	0	69
Hydro	311	101	120	132	24	688
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	33	67	16	0	27	142
RES (Wind, Solar, Biomass & Others)	59	50	232	4	0	346
Total	1125	1359	696	591	60	3831
Share of RES in total generation (%)	5.27	3.71	33.32	0.73	0.17	9.03
Share of Non-fossil fuel (Hydro Nuclear and RES) in total generation(%)	35.25	12.67	60.50	22 00	30 30	30.00

H. All India Demand Diversity Factor

based on Regional Max Demands	1.032
Based on State Max Demands	1.073

Diversity factor = Sum of regional or state maximum demands / All India maximum demand
^ WR and SR 20-00hrs demand values are from NLDC SCADA

^{*}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: 21-Sep-2020

SI	-						Date of Reporting:	21-Sep-2020
No	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)		l l	L L		ı.	
1		ALIPURDUAR-AGRA	2	0	1000	0.0	24.6	-24.6
2		PUSAULI B/B	:	0	297	0.0	7.5	-7.5
3		GAYA-VARANASI SASARAM-FATEHPUR	2	53 279	379 0	0.0 4.5	5.2 0.0	-5.2 4.5
5		GAYA-BALIA	1	0	547	0.0	9.7	-9.7
6		PUSAULI-VARANASI	i	0	288	0.0	6.2	-6.2
7		PUSAULI -ALLAHABAD	1	0	94	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	562	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	4	0	871	0.0	17.0	-17.0
10 11	400 kV 400 kV	BIHARSHARIFF-BALIA	2	0	392 333	0.0	6.8	-6.8
12		MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2	219	333 87	0.0 1.4	5.7 0.0	-5.7 1.4
13		PUSAULI-SAHUPURI	1	85	134	0.0	1.2	-1.2
14		SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0 ED ND	0.0	0.0	0.0
Import/	Export of ER (With WR)			ER-NR	6.5	95.1	-88.6
1		JHARSUGUDA-DHARAMJAIGARH	4	869	0	8.5	0.0	8.5
					0			
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1518		27.7	0.0	27.7
3	765 kV	JHARSUGUDA-DURG	2	196	0	2.5	0.0	2.5
4		JHARSUGUDA-RAIGARH	4	456	0	7.0	0.0	7.0
5	400 kV	RANCHI-SIPAT	2	498	0	11.0	0.0	11.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	98	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	170	0	3.1	0.0	3.1
					ER-WR	59.8	1.5	58.2
	Export of ER (
1		JEYPORE-GAZUWAKA B/B	2	0	646	0.0	14.9	-14.9
2		TALCHER-KOLAR BIPOLE	2	0	1636	0.0	34.3	-34.3 26.0
4	765 kV 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2	0 519	1575 337	0.0	26.0	-26.0
5		BALIMELA-UPPER-SILERRU	1	317	0	1.9 0.0	0.0	1.9 0.0
					ER-SR	0.0	75.2	-75.2
Import/	Export of ER (With NER)				-20		1.2
1	400 kV	BINAGURI-BONGAIGAON	2	0	383	0.0	5.6	-5.6
2		ALIPURDUAR-BONGAIGAON	2	0	417	0.0	5.7	-5.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.7	-1.7
Import/	Export of NER	(With ND)			ER-NER	0.0	13.0	-13.0
1		BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.4	-13.4
	пурс	DISWANATH CHARLALI-AGRA		U	NER-NR	0.0	13.4	-13.4
Import/	Export of WR ((With NR)				0.0	12.7	-15,4
1		CHAMPA-KURUKSHETRA	2	0	1756	0.0	70.5	-70.5
2	HVDC	VINDHYACHAL B/B	-	182	492	1.9	1.8	0.1
3		MUNDRA-MOHINDERGARH	2	0	1547	0.0	32.3	-32.3
4		GWALIOR-AGRA	2	0	2965	0.0	57.1	-57.1
5		PHAGI-GWALIOR	2	0	1040	0.0	19.6	-19.6
6		JABALPUR-ORAI	2	0	1123	0.0	41.8	-41.8 7.4
8		GWALIOR-ORAI SATNA-ORAI	1	389	0 1615	7.4 0.0	0.0 34.2	7.4 -34.2
9		CHITORGARH-BANASKANTHA	2	0	1145	0.0	18.6	-34.2 -18.6
10		ZERDA-KANKROLI	1	0	216	0.0	2.9	-18.0 -2.9
11		ZERDA-BHINMAL	1	0	319	0.0	5.0	-5.0
12		VINDHYACHAL -RIHAND	î	960	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	572	0.0	9.9	-9.9
14	220 kV	BHANPURA-RANPUR	1	0	145	0.0	2.4	-2.4
15	220 kV	BHANPURA-MORAK	1	11	0			
16						0.0	2.3	-2.3
17 18		MEHGAON-AURAIYA	1	74	10	0.1	0.4	-0.3
19	220 kV	MALANPUR-AURAIYA	1	23	10 50	0.1 0.8	0.4 0.0	-0.3 0.8
	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1 1	23 0	10 50 0	0.1 0.8 0.0	0.4 0.0 0.0	-0.3 0.8 0.0
	220 kV 132 kV	MALANPUR-AURAIYA	1	23	10 50	0.1 0.8	0.4 0.0	-0.3 0.8
	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1	23 0 0	10 50 0 0	0.1 0.8 0.0 0.0	0.4 0.0 0.0 0.0 298.8	-0.3 0.8 0.0 0.0
Import/	220 kV 132 kV 132 kV //Export of WR (MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 2	23 0 0	10 50 0 0 WR-NR	0.1 0.8 0.0 0.0 32.8	0.4 0.0 0.0 0.0 298.8	-0.3 0.8 0.0 0.0 -266.0
Import/	220 kV 132 kV 132 kV */Export of WR (HVDC HVDC	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR	1 1 2	23 0 0 0	10 50 0 WR-NR	0.1 0.8 0.0 0.0 32.8 0.0 0.0	0.4 0.0 0.0 0.0 298.8 7.6 3.6	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6
Import/	220 kV 132 kV 132 kV */Export of WR (HVDC HVDC 765 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	1 1 2 2	23 0 0 0 97 0 1489	10 50 0 0 WR-NR 617 151 65	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5	0.4 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5
Import/. 1 2 3 4	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 2 2	23 0 0 97 0 1489 153	10 50 0 WR-NR 617 151 65 968	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 400 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	1 1 2 2 2 2 2 2 2 2	23 0 0 0 97 0 1489 153 798	10 50 0 0 WR-NR 617 151 65 968 0	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3
Import/. 1 2 3 4	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 2 2	23 0 0 97 0 1489 153	10 50 0 WR-NR 617 151 65 968	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7
Import/. 1 2 3 4 5 6	220 kV 132 kV 132 kV //Export of WR (HVDC 765 kV 765 kV 400 kV 220 kV	MALANPUR-AURAIYA GWALIOR SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 2 2 2 2 2 2 2 2	23 0 0 0 97 0 1489 153 798	10 50 0 WR-NR 617 151 65 968 0 0	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0	0.4 0.0 0.0 0.0 298.8 7.6 0.0 11.7 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0
Import/ 1 2 3 4 5 6 7	220 kV 132 kV 132 kV //Export of WR (HVDC 765 kV 765 kV 400 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI	1 1 2 2 2 2 2 2 2 2	23 0 0 0 97 0 1489 153 798	10 50 0 0 WR-NR 617 151 65 968 0	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0	0.4 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0
Import/ 1 2 3 4 5 6 7	220 kV 132 kV 132 kV //Export of WR (HVDC 765 kV 765 kV 400 kV 220 kV	MALANPUR-AURAIYA GWALIOR SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 2 2 2 2 2 2 2 2 2 2 2 1 1	23 0 0 0 1489 153 798 0 0	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0 0.0
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 2 2 2 2 2 2 2 2 1 1 1 INTER	23 0 0 0 97 0 1489 153 798 0 0 1	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0 0.0 1.1
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC 765 kV 765 kV 400 kV 220 kV	MALANPUR-AURAIYA GWALIOR SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	- 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1	23 0 0 97 0 1489 153 798 0 0 1 1	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0 0.0
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	1 1 2 2 2 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGGECHI	23 0 0 97 0 1489 153 798 0 0 1 1 2RATIONAL EXCHAI	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR NGES	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 0.0 14.3 0.0 0.0 0.0 14.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 -11.7 14.3 -0.0 0.0 1.1 7.0 Energy Exchange (MII)
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400RV MANGDECHI Le, ALIPURDUAR RI	23 0 0 97 0 1489 1489 153 798 0 1 1 2NATIONAL EXCHA! Name	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR	0.1 0.8 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 -11.7 14.3 -0.0 0.0 1.1 7.0
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	23 0 0 97 0 1489 153 798 0 0 1 1 2 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 4	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR NGES	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 0.0 14.3 0.0 0.0 0.0 14.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 -11.7 14.3 -0.0 0.0 1.1 7.0 Energy Exchange (MII)
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGion ER	- 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	23 0 0 0 1489 1489 153 798 0 1 1 2NATIONAL EXCHA! Name UL-ALIPURDUAR 1&2 CCEIPT (from 4*180MW)	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 14.3 0.0 0.0 0.0 0.0 14.5 0.0 0.0 14.5 0.0 0.0 0.0 14.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW)	-0.3 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8
Import/	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	- 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	23 0 0 97 0 1489 153 798 0 0 1 1 NATIONAL EXCHA! Name 1U-ALIPURDUAR 1&2 ECELPT (from 44180MW) URI 1,2,4 (& 400KV)	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR NGES	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 0.0 14.3 0.0 0.0 0.0 14.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 -11.7 14.3 -0.0 0.0 1.1 7.0 Energy Exchange (MII)
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER		23 0 0 1 97 0 1489 153 798 0 0 1 1 153 154 Name RNATIONAL EXCHA! Name RU-ALIPURDUAR 1&2 ECELPT (from 44180MW) URI 1,2,4 (& 400kV Will 1,2,4 (& 400kV W	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3 0.0 14.3 0.0 14.4 14.5 16.0 17.0 18.0 19.0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0 0.0 1.1 7.0 Energy Exchange (MII) 15.8
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV //Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGion ER	1 1 2 2 2 2 2 2 2 2 2 1 1 1 INTER LINE 400KV MANGDECHI Le. ALIPURDUAR RI MANGDECHU HEP- 400KV TALA-BINAG MALBASE - BINAGG MALBASE - BIRPAG	23 0 0 0 97 0 1489 153 798 0 0 1 153 798 0 1 1 ENATIONAL EXCHA! Name ENATIONAL EXCHA! VIAME (#180MW) URI 1,2,4 (& 400kV URI),E, b BINAGURI A HEP (6°110MW) PARA 1&2 (& 220kV	10 50 0 WR-NR 617 151 65 968 0 0 0 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 14.3 0.0 0.0 0.0 0.0 14.5 0.0 0.0 14.5 0.0 0.0 0.0 14.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW)	-0.3 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER		23 0 0 0 97 0 1489 153 798 0 0 1 153 798 0 1 1 ENATIONAL EXCHA! Name ENATIONAL EXCHA! VIAME (#180MW) URI 1,2,4 (& 400kV URI),E, b BINAGURI A HEP (6°110MW) PARA 1&2 (& 220kV	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3 0.0 14.3 0.0 14.4 14.5 16.0 17.0 18.0 19.0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 0.8 0.0 0.0 -266.0 -7.6 -3.6 14.5 -11.7 14.3 0.0 0.0 1.1 7.0 Energy Exchange (MII) 15.8
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	1 1 2 2 2 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGDECHI HEP 400kV TALA-BINAG RECEIPT (from TAL 220kV CHUKHA-BIB RECEIPT (from CHU	23 0 0 0 97 0 1489 153 798 0 0 1 1 153 153 153 153 154 154 154 155 155 156 167 178 188 189 198 198 198 198 198 198 198 19	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 1.1 1.1 29.9	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MU) -15.8 -25.5 -8.3
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	1 1 2 2 2 2 2 2 2 2 2 1 1 1 INTER LINE 400KV MANGDECHI Le. ALIPURDUAR RI MANGDECHU HEP- 400KV TALA-BINAG MALBASE - BINAGG MALBASE - BIRPAG	23 0 0 0 97 0 1489 153 798 0 0 1 1 153 153 153 153 154 154 154 155 155 156 167 178 188 189 198 198 198 198 198 198 198 19	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3 0.0 14.3 0.0 14.4 14.5 16.0 17.0 18.0 19.0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	1 1 2 2 2 2 2 2 2 2 2 1 1 1 INTER Line 400KV MANGDECHI ie. ALIPUGHAR RI MANGDECHU HEP, 400KV TALA-BINAG MALBASE - BINAGI ECCEIPT (from TAL 226KV - CHUKHA-BIR MALBASE - BIRPAR MALBASE - BIRPAR MALBASE - BIRPAR MALBASE - BIRPAR MILBASE - BIRPAR M	23 0 0 0 197 0 1489 1489 153 798 0 0 1 1 RNATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2.4 (& 400KV URI) 1.6. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) 1.6. BIRPARA KHA HEP 4*84MW) J- SALAKATI	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW) 680 1062 -60	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3 0.0 15.0 16.0 17.0 18.0 19.0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5 -1.1
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	1 1 2 2 2 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGDECHI HEP 400kV TALA-BINAG RECEIPT (from TAL 220kV CHUKHA-BIB RECEIPT (from CHU	23 0 0 0 197 0 1489 1489 153 798 0 0 1 1 RNATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2.4 (& 400KV URI) 1.6. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) 1.6. BIRPARA KHA HEP 4*84MW) J- SALAKATI	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW)	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 1.1 1.1 29.9	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MU) -15.8 -25.5 -8.3
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	1	23 0 0 1 97 0 1489 1489 153 798 0 0 1 1 ENATIONAL EXCHA! Name WHALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,4 (& 200kV URI 1,2,4 (& 200kV URI 1,2,4 (& 400kV URI 1,2	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW) 680 1062 -60	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3 0.0 15.0 16.0 17.0 18.0 19.0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5 -1.1
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER		23 0 0 1 97 0 1489 153 798 0 0 1 1 153 1798 0 1 1 1 2NATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (IGNA) 4*180AIW) URI 1,2,4 (& 400kV Red R	10 50 0 WR-NR 617 151 65 968 0 0 0 66 WR-SR NGES Max (MW) 680 1062 -60	0.1 0.8 0.0 0.0 0.0 32.8 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 14.3 0.0 14.3 0.0 15.0 16.0 17.0 18.0 19.0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5 -1.1
Import/ 1 2 3 4 5 6 7 8 8	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	1	23 0 0 1 97 0 1489 153 798 0 0 1 1 153 1798 0 1 1 1 2NATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (IGNA) 4*180AIW) URI 1,2,4 (& 400kV Red R	10 50 0 WR-NR 617 151 65 968 0 0 WR-SR NGES Max (MW) 680 1062 -60	0.1 0.8 0.0 0.0 0.0 0.0 0.0 14.5 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 0.0 14.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -3.6 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5 -1.1 -1.4
Import 1	220 kV 132 kV 132 kV 132 kV /Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV State	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER	1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400KV MANGDECHH Lie. ALIPURDUAR RI MANGDECHH HEP 400KV TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRPAR RECEIPT (from TAL 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPURG MAHENDRANAGAR	23 0 0 1 97 0 1489 1489 0 1489 0 1 153 798 0 0 1 1 ENATIONAL EXCHA! Name U-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI L24 (4 400KV) URI D.E. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV) L3 (& 400KV) L3 (& 400KV) L4 (& 400KV) L5 (10 50 0 WR-NR 017 151 151 65 968 0 0 0 66 WR-SR NGES Max (MW) 680 1062 362 -60 -64 0 0	0.1 0.8 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 15.1 1051 0 -39	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0 22.9 Avg (MW) 658 1060 345 -47	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -3.6 -11.7 -14.3 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5 -1.1 -1.4 -0.0
Import 1	220 kV 132 kV 132 kV 132 kV //Export of WR (HVDC T65 kV 765 kV 400 kV 220 kV 220 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER		23 0 0 1 97 0 1489 1489 0 1489 0 1 153 798 0 0 1 1 ENATIONAL EXCHA! Name U-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI L24 (4 400KV) URI D.E. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV) L3 (& 400KV) L3 (& 400KV) L4 (& 400KV) L5 (10 50 0 WR-NR 617 151 65 968 0 0 WR-SR NGES Max (MW) 680 1062 -60	0.1 0.8 0.0 0.0 0.0 0.0 0.0 14.5 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 14.3 0.0 0.0 0.0 14.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -3.6 -11.7 -14.5 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -25.5 -1.1 -1.4
Import 1	220 kV 132 kV 132 kV 132 kV /Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV State	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER	- 2 2 2 2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI i.e. ALIPURDUAR RI MANGBECHI HEP 400kV TALA-BINAG MALBASE - BINAGI RECEIPT (from TAL 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(MAHENDRANAGAR 132KV-TANAKPUR(MAHENDRANAGAR 132KV-BIHAR - NEP	23 0 0 97 0 1489 153 798 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,6 (&	10 50 0 WR-NR 017 151 151 65 968 0 0 0 66 WR-SR NGES Max (MW) 680 1062 362 -60 -64 0 0	0.1 0.8 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 15.1 1051 0 -39	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0 22.9 Avg (MW) 658 1060 345 -47	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -3.6 -1.1.7 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4
Import 1	220 kV 132 kV 132 kV 132 kV /Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV State	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER	1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1	23 0 0 97 0 1489 153 798 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,6 (&	10 50 0 WR-NR 617 151 65 968 0 0 WR-SR WR-SR 1062 362 -60 -64	0.1 0.8 0.0 0.0 0.0 0.0 32.8 0.0 0.0 0.0 14.5 0.0 14.3 0.0 1.1 29.9 Min (MW) 641 1051 0 -39	0.4 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 22.9 Avg (MW) 658 1060 345 -47 -58	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -3.6 -11.7 -14.3 -0.0 -0.0 -1.1 -7.0 Energy Exchange (MII) -15.8 -1.1 -1.4 -0.0 -0.9
Import/ 1	220 kV 132 kV 132 kV 132 kV /Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV State	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER	- 2 2 2 2 2 2 2 2 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI i.e. ALIPURDUAR RI MANGBECHI HEP 400kV TALA-BINAG MALBASE - BINAGI RECEIPT (from TAL 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(MAHENDRANAGAR 132KV-TANAKPUR(MAHENDRANAGAR 132KV-BIHAR - NEP	23 0 0 97 0 1489 153 798 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,4 (& 400kV URI 1,2,6 (&	10 50 0 WR-NR 017 151 151 65 968 0 0 0 66 WR-SR NGES Max (MW) 680 1062 362 -60 -64 0 0	0.1 0.8 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 14.5 0.0 14.3 0.0 15.1 1051 0 -39	0.4 0.0 0.0 0.0 0.0 0.0 298.8 7.6 3.6 0.0 11.7 0.0 0.0 0.0 0.0 0.0 22.9 Avg (MW) 658 1060 345 -47	-0.3 -0.8 -0.8 -0.0 -0.0 -0.0 -266.0 -7.6 -3.6 -3.6 -1.1.7 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4

	ER	BHERAMARA HVDC(BANGLADESH)	-946	0	-928	-22.3
BANGLADESH		132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	92	0	-82	-2.0
		132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	92	0	-82	-2.0