

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

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दिनांक: 19th Nov 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

Τo,

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

- 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 18.11.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा०प्रे॰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 18th November 2020, is available at the NLDC website.

धन्यवाद.

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



Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	Report for pres	vious day ly Position at All India and Regional level				Date	e of Reporting:	19-No	v-2020
Peak Shortage (MW)		<u>-</u>	NR	WR	SR	ER	NER	TOTAL)
Energy Met (MU)	Demand Met du	ring Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	43418	48576	37751	18186	2433	150364	
Hydro Gen (MU)	Peak Shortage (MW)	548	0	0	0	6	554	
Wind Gen (MU)	Energy Met (MI	U)	857	1151	807	357	41	3213	
Solar Gen (MU)* 35.03 25.20 85.96 4.27 0.11 151	Hydro Gen (MU	7)	113	33	77	52	12	288	
Energy Shortage (MU)	Wind Gen (MU)		7	61	39		-	108	
Maximum Demand Met During the Day (MW) (From NLDC SCADA) 43633 52798 38982 18530 2504 152370 Time Of Maximum Demand Met (From NLDC SCADA) 18:30 10:46 18:28 18:30 17:48 18:28 Region FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 All India 0.029 0.00 0.30 3.90 4.20 82.25 13.55 C. Power Supply Position in States Max.Demand Met during the day(MW) Mu			35.03	25.20	85.96	4.27	0.11	151	
Time Of Maximum Demand Met (From NLDC SCADA) 18:30 10:46 18:28 18:30 17:48 18:28	Energy Shortage	e (MU)	2.1	0.0	0.0	0.0	0.1	2.1	
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 0.029 0.00 0.30 3.90 4.20 82.25 13.55 C. Power Supply Position in States Max.Demand Met during the day(MW) Met during the day(MW) Demand(MW) Schedule (MU) (MU) (MW) (MW) (MW) (MU) Puniab 5151 0 100.3 85.4 -1.0 133 1.8 C. Power Supply Position in States Max.Demand Met during the day(MW) Schedule (MU) (MU	Maximum Dema	and Met During the Day (MW) (From NLDC SCADA)	43633	52798	38982	18530	2504	152370	
Region FVI	Time Of Maxim	um Demand Met (From NLDC SCADA)	18:30	10:46	18:28	18:30	17:48	18:28	
All India 0.029 0.00 0.30 3.90 4.20 82.25 13.55	B. Frequency P	Profile (%)							-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05	
Region States Max.Demand Shortage during Energy Met Drawal OD(+)/UD(-) Max OD Energy	All India	0.029	0.00	0.30	3.90	4.20	82.25	13.55	
Region States Met during the day(MW) maximum Demand(MW) (MU) Schedule (MU) (MU) (MW) Shortage (MU) Punjab 5151 0 100.3 85.4 -1.0 133 1.8	C. Power Supp	ly Position in States							
			Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
	Region	States	Met during the	maximum	(MIII)	Schedule	(MII)	(MW)	Shortage
			day(MW)	Demand(MW)	(MIC)	(MU)	(MIC)	(IVI VV)	(MU)
Harvana 5752 98 109.2 106.9 0.7 263 0.3		Punjab	5151	0	100.3	85.4	-1.0	133	1.8
		Haryana	5752	98	109.2	106.9	0.7	263	0.3
Rajasthan 12008 0 228.2 81.1 1.1 400 0.0		Rajasthan	12008	0	228.2	81.1	1.1	400	0.0
Delhi 3371 0 59.7 43.2 0.2 167 0.0		Delhi	3371	0	59.7	43.2	0.2	167	0.0
NR UP 13795 0 243.0 91.7 -1.4 249 0.0	NR	UP	13795	0	243.0	91.7	-1.4	249	0.0
Uttarakhand 1801 0 34.0 24.5 1.1 289 0.0		Uttarakhand	1801	0	34.0	24.5	1.1	289	0.0
HP 1626 0 29.5 22.4 -0.3 122 0.0		HP	1626	0	29.5	22.4	-0.3	122	0.0

Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage
		day(MW)	Demand(MW)	` '	(MU)	` ′	· ··/	(MU)
	Punjab	5151	0	100.3	85.4	-1.0	133	1.8
	Harvana	5752	98	109.2	106.9	0.7	263	0.3
	Rajasthan	12008	0	228.2	81.1	1.1	400	0.0
	Delhi	3371	0	59.7	43.2	0.2	167	0.0
NR	UP	13795	0	243.0	91.7	-1.4	249	0.0
	Uttarakhand	1801	0	34.0	24.5	1.1	289	0.0
	HP	1626	0	29.5	22.4	-0.3	122	0.0
	J&K(UT) & Ladakh(UT)	2683	0	50.3	43.6	1.5	285	0.0
	Chandigarh	181	0	3.1	3.0	0.1	27	0.0
	Chhattisgarh	3358	0	72.8	13.2	0.9	244	0.0
	Gujarat	13417	0	292.1	44.3	0.5	617	0.0
	MP	13402	0	274.8	180.8	-3.9	509	0.0
WR	Maharashtra	21812	0	457.6	145.4	-1.2	525	0.0
	Goa	510	0	10.8	10.4	-0.2	36	0.0
	DD	317	0	7.0	6.7	0.3	28	0.0
	DNH	793	0	17.9	17.7	0.2	78	0.0
	AMNSIL	782	0	17.8	1.2	0.5	272	0.0
	Andhra Pradesh	7516	0	162.8	79.4	0.0	692	0.0
	Telangana	7075	0	145.9	49.0	-1.4	343	0.0
SR	Karnataka	9113	0	177.6	64.9	-0.4	752	0.0
	Kerala	3566	0	70.3	54.9	0.3	245	0.0
	Tamil Nadu	12321	0	243.9	175.3	-1.5	702	0.0
	Puducherry	353	0	7.1	7.4	-0.4	21	0.0
	Bihar	4459	0	76.4	74.8	1.2	480	0.0
	DVC	3039	0	64.8	-46.6	-0.5	260	0.0
	Jharkhand	1405	0	25.2	18.3	-1.5	150	0.0
ER	Odisha	3967	0	74.8	6.7	-0.4	207	0.0
	West Bengal	6322	0	114.4	26.3	0.2	371	0.0
	Sikkim	105	0	1.3	1.4	-0.1	51	0.0
	Arunachal Pradesh	109	1	2.0	1.9	0.1	30	0.0
	Assam	1455	3	22.9	19.8	0.2	146	0.0
	Manipur	215	2	2.6	2.6	0.0	39	0.0
NER	Meghalaya	400	0	5.7	2.9	0.0	50	0.0
	Mizoram	103	2	1.7	0.9	0.4	18	0.0
	Nagaland	131	1	2.2	1.7	0.3	32	0.0
	Tripura	217	2	3.6	3.3	-0.7	34	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	13.1	-0.7	-19.2
Day Peak (MW)	828.0	-192.9	-1010.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	292.6	-323.0	130.1	-100.0	0.3	0.0
Actual(MU)	286.1	-308.6	126.9	-106.2	0.7	-1.1
O/D/U/D(MU)	-6.5	14.4	-3.3	-6.1	0.4	-1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7510	14143	10032	3850	842	36377
State Sector	18246	15643	14856	5772	11	54528
Total	25756	29786	24888	9622	853	90905

G. Sourcewise generation (MU)

Gradulter and generation (1710)						
	NR	WR	SR	ER	NER	All India
Coal	350	1256	334	428	7	2375
Lignite	21	13	36	0	0	69
Hydro	113	33	77	52	12	288
Nuclear	28	33	66	0	0	127
Gas, Naptha & Diesel	20	60	16	0	26	121
RES (Wind, Solar, Biomass & Others)	62	87	163	4	0	316
Total	593	1482	692	484	44	3295
Share of RES in total generation (%)	10.38	5.88	23.51	0.88	0.25	9.58
Chang of Non-feed fiel (Hydro Nyelson and DEC) in total conception(9/)	24.02	10.26	44.24	11.60	27.27	22.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.067

Dased on State Max Definants

1.00/

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: 19-Nov-2020

Sl No Impor							Date of Reporting:	19-Nov-2020
Impor	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
mpor	rt/Export of ER (With NR)	ı		ı		ı	
1	HVDC	ALIPURDUAR-AGRA	2	0	351	0.0	8.4	-8.4
3	HVDC 765 kV	PUSAULI B/B GAYA-VARANASI	- 2	0	299 935	0.0	7.5 9.9	-7.5 -9.9
4	765 kV	SASARAM-FATEHPUR	1	40	403	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	453	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	1	0	248	0.0	5.2	-5.2
8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0 118	132 782	0.0	2.1 6.1	-2.1 -6.1
9	400 kV	PATNA-BALIA	4	0	908	0.0	11.2	-11.2
10	400 kV	BIHARSHARIFF-BALIA	2	91	394	0.0	2.7	-2.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	351	0.0	5.2	-5.2
12	400 kV 220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	2	84 32	297 60	0.0	1.6 0.2	-1.6 -0.2
14	132 kV	SONE NAGAR-RIHAND	i	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	î	20	Ö	0.4	0.0	0.4
16	132 kV	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
Impor	rt/Export of ER (With WR)			ER-NR	0.4	70.8	-70.4
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	948	310	6.6	0.0	6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	836	12	11.1	0.0	11.1
3	765 kV	JHARSUGUDA-DURG	2	196	171	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	426	0	4.8	0.0	4.8
5	400 kV	RANCHI-SIPAT	2	308	5		0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	24	89	0.0	0.9	
								-0.9
7	220 kV	BUDHIPADAR-KORBA	2	188	0 ER-WR	3.0	0.0	3.0
Impor	rt/Export of ER (With SR)			ER-WK	29.8	2.8	27.0
_1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	Ů	1990	0.0	36.5	-36.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2578	0.0	51.0	-51.0
4	400 kV	TALCHER-I/C	2	296	649	0.0	3.0	-3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1 1	0 ER-SR	0.0	0.0 96.1	0.0 -96.1
Impor	rt/Export of ER (With NER)			EK-5K	0.0	90.1	-90.1
1	400 kV	BINAGURI-BONGAIGAON	2	10	304	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	101	751	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	137	0.0	1.1	-1.1
T					ER-NER	0.0	7.1	-7.1
1mpor	rt/Export of NER HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	7.3	-7.3
	пурс	DISWANATH CHARIALI-AGRA			NER-NR	0.0	7.3	-7.3 -7.3
Impor	rt/Export of WR	(With NR)				0.0	7.5	-7.5
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	38.4	-38.4
2	HVDC	VINDHYACHAL B/B	-	231	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1547	0.0	33.9	-33.9
5	765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR	2	0	2830	0.0	54.2 25.4	-54.2 25.4
6	765 kV	JABALPUR-ORAI	2	0	1771 1065	0.0	25.4 39.5	-25.4 -39.5
7	765 kV	GWALIOR-ORAI	1	605	0	9,3	0.0	9.3
8	765 kV	SATNA-ORAI	1	0	1567	0.0	33.5	-33.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	923	0.0	14.5	-14.5
10 11	400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	16 0	167 378	0.0	2.1 5.5	-2.1 -5.5
12	400 kV	VINDHYACHAL -RIHAND	i	976	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	387	0.0	4.8	-4.8
14	220 kV	BHANPURA-RANPUR	1	0	153	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	83	9	0.2	0.1	0.1
17 18	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	52 0	28 0	0.7	0.0	0.7 0.0
19		RAJGHAT-LALITPUR	2	0				
					0 1			0.0
					0 WR-NR	0.0	0.0	0.0 -217.1
1	rt/Export of WR				WR-NR	0.0 38.6	0.0 255.7	-217.1
2	HVDC	BHADRAWATI B/B	=	0	WR-NR 522	0.0 38.6 0.0	0.0 255.7	-217.1 -12.2
1 3	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	0	WR-NR 522 997	0.0 38.6 0.0 0.0	0.0 255.7 12.2 10.4	-217.1 -12.2 -10.4
3	HVDC HVDC 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2 2 2	0	WR-NR 522 997 2286	0.0 38.6 0.0 0.0 0.0	0.0 255.7 12.2 10.4 23.7	-217.1 -12.2 -10.4 -23.7
4 5	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	0 0 491	WR-NR 522 997	0.0 38.6 0.0 0.0	0.0 255.7 12.2 10.4	-217.1 -12.2 -10.4
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 2	0 0 491	WR-NR 522 997 2286 2109 10 0	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0	-217.1 -12.2 -10.4 -23.7 -26.7 7.2 0.0
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	0 0 491 0 734 0	WR-NR 522 997 2286 2109 10 0	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0	-217.1 -12.2 -10.4 -23.7 -26.7 7.2 0.0 0.0
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 2	0 0 491 0 734	WR-NR 522 997 2286 2109 10 0 46	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0	-217.1 -12.2 -10.4 -23.7 -26.7 7.2 0.0 0.0 0.9
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 2 1	0 0 491 0 734 0 1	WR-NR 522 997 2286 2109 10 0 WR-SR	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0	-217.1 -12.2 -10.4 -23.7 -26.7 7.2 0.0 0.0
4 5 6 7	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	2 2 2 2 2 1	0 0 491 0 734 0	WR-NR 522 997 2286 2109 10 0 WR-SR	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -64.9
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 2 1 1 1	0 0 491 0 734 0 1	WR-NR 522 997 2286 2109 10 0 WR-SR	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -64.9 Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 1 1 1 INTER	0 0 491 0 734 0 1 0	WR-NR 522 997 2286 2109 10 0 46 WR-SR	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.0 0.0 9.0 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -64.9
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE	0 0 491 0 491 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.0 0.0 9.0 0.0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -64.9 Energy Exchange
4 5 6 7	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	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4	0 0 491 0 0 7.34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WR-NR 522 997 2286 2109 10 0 46 WR-SR NGES Max (MW)	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.9 8.1	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW)	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOHAPUR-KUDGI KOHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA.BINAGI	0 0 491 0 491 0 1 734 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR NGES Max (MW) 259	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 10.4 23.7 26.7 0.0 0.0 0.0 0.0 73.0 Avg (MW)	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3
4 5 6 7	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	2 2 2 2 2 1 1 1 1 1 INTER Line 400kV MANGDECHH Lie. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU	0 0 0 491 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WR-NR 522 997 2286 2109 10 0 46 WR-SR NGES Max (MW)	0.0 38.6 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.9 8.1	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW)	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOHAPUR-KUDGI KOHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 INTER INTER INTER 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH HEP 4 400KV TALA-BINAGU RECEIPT (from TAL). RECEIPT (from TAL).	0 0 0 491 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WR-NR 522 997 2286 2109 10 0 46 WR-SR NGES Max (MW) 259	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 10.4 23.7 26.7 0.0 0.0 0.0 0.0 73.0 Avg (MW)	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOHAPUR-KUDGI KOHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region 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 MALBASE - BIRPAR	0 0 491 491 0 734 1 1 0 0 1 134 1 1 0 0 NATIONAL EXCHA! Name 180MW) 180MW) 1811,2.4 (8.400kV) RD i.e. BINAGURI BEP (6.410MW) PARA IAZ (8.220kV) A i.e. BIRPARA	WR-NR 522 997 2286 2109 10 0 46 WR-SR NGES Max (MW) 259	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 10.4 23.7 26.7 0.0 0.0 0.0 0.0 73.0 Avg (MW)	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange
4 5 6 7 8	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-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 INTER INTER INTER 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH HEP 4 400KV TALA-BINAGU RECEIPT (from TAL). RECEIPT (from TAL).	0 0 491 491 0 734 1 1 0 0 1 134 1 1 0 0 NATIONAL EXCHA! Name 180MW) 180MW) 1811,2.4 (8.400kV) RD i.e. BINAGURI BEP (6.410MW) PARA IAZ (8.220kV) A i.e. BIRPARA	WR-NR 522 997 2286 2109 0 0 46 WR-SR WGES Max (MW) 259	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.9 8.1	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI 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 MALBASE - BIRPAR	0 0 491 0 1734 0 1 1 0 1734 1 1 0 0 11 1 1 0 0 NATIONAL EXCHA! Name IU-ALIPURDUAR I &2 CEIPT (from **180MW) IWI I,2,4 (& 400kV RI) i.e. BINAGURI I, HEP (6*170MV) PARA I &2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3 -7.7 -7.7
4 5 6 7 8	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-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region 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 TALA MALBASE - BIRPAR RECEIPT (from CHU	0 0 491 0 1734 0 1 1 0 1734 1 1 0 0 11 1 1 0 0 NATIONAL EXCHA! Name IU-ALIPURDUAR I &2 CEIPT (from **180MW) IWI I,2,4 (& 400kV RI) i.e. BINAGURI I, HEP (6*170MV) PARA I &2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	WR-NR 522 997 2286 2109 0 0 46 WR-SR WGES Max (MW) 259	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 7.2 0.0 0.0 0.9 8.1	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3
4 5 6 7 8	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	2 2 2 2 1 1 INTER INTER LINE 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHH HEP 4 400KV TALA-BINAGU RECEIPT (from TAL) RECEIPT (from CHU 132KV-GEYLEGPHU	0 0 0 491 734 734 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3 -7.7 -6.7
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region 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 TALA MALBASE - BIRPAR RECEIPT (from CHU	0 0 0 491 734 734 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3 -7.7 -7.7
4 5 6 7 8	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	2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	0 0 491 0 491 0 1734 0 1 1 0 1849 1949 1949 1949 1949 1949 1949 1949	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321	-217.1 -12.2 -10.4 -23.7 -7.2 -0.0 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -6.7
4 5 6 7 8	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	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHH ie, ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGI BECEIPT (from TAL- 20kV CHEKIA-BIR MALBASE - BINAGU BECEIPT (from TAL- 132kV-GEYLEGPHU 132kV Motanga-Rangi	0 0 0 491 91 734 0 1 734 0 1 1 1 0 NATIONAL EXCHA! Name U.A.LIPURDUAR 1&2 CEIPT (from = 1890MW) IRI 1,2,4 (& 400kV R) RI 1,2,4 (& 400kV R) RI 1,2,4 (& 400kV R) - SALAKATI in	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321	-217.1 -12.2 -10.4 -23.7 -7.2 -0.0 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -6.7
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	0 0 0 491 91 734 0 1 734 0 1 1 1 0 NATIONAL EXCHA! Name U.A.LIPURDUAR 1&2 CEIPT (from = 1890MW) IRI 1,2,4 (& 400kV R) RI 1,2,4 (& 400kV R) RI 1,2,4 (& 400kV R) - SALAKATI in	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 28 -4	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3 -7.7 -0.7 -0.1
4 5 6 7 8	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 1 INTER INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TAL- 220kV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR	0 0 491 734 0 1 734 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 7.2 0.0 0.9 8.1 Min (MW) 0 7 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -6.7 -6.1 -6.3
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 2 2 1 1 INTER Line 400kV MANGDECHH ie, ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGI BECEIPT (from TAL- 20kV CHEKIA-BIR MALBASE - BINAGU BECEIPT (from TAL- 132kV-GEYLEGPHU 132kV Motanga-Rangi	0 0 491 734 0 1 734 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 28 -4	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3 -7.7 -0.7 -0.1
4 5 6 7 8	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 1 INTER INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TAL- 220kV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR	0 0 491 734 0 1 734 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 7.2 0.0 0.9 8.1 Min (MW) 0 7 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -6.7 -6.1 -6.3
4 5 6 7 8	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 1 1 1 INTER Line HORV MANGDECHH Le. ALIPURDUAR RE MANGDECHU HEP 4 400K TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(N MAHENDRANAGAR 132KV-BIHAR - NEP,	0 0 491 734 0 1 734 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 7.2 0.0 0.9 8.1 Min (MW) 0 7 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -6.7 -6.1 -6.3
4 5 6 7 8	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-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER	2 2 2 2 1 1 1 INTER Line HORV MANGDECHH Le. ALIPURDUAR RE MANGDECHU HEP 4 400K TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(N MAHENDRANAGAR 132KV-BIHAR - NEP,	0 0 491 491 0 734 0 1 1 0 1 734 0 1 1 0 NATIONAL EXCHA! Name 180MW) 180MW) 180MW) 1811,2.4 (400kV Rt) i.e. BINAGURI HEP (6*120kV) PARA 1&2 (& 220kV) - SALAKATI iii	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -0.7 -0.1 -0.1 -0.6
4 5 6 7 8	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 NER NER NER NER ER ER	2 2 2 2 2 1 1 1 INTER INTER LINE 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH i.e. ALIPURDUAR RE A00kV TALA-BINAGU RECEIPT (from TAL) 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR) 132kV-BIHAR - NEP, 220kV-MUZAFFARP	0 0 1 491 1 0 1 7,34 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3 -24	-217.1 -12.2 -10.4 -23.7 -2.6.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -6.7 -6.1 -6.3 -6.1
4 5 6 7 8	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-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER	2 2 2 2 1 1 1 INTER Line HORV MANGDECHH Le. ALIPURDUAR RE MANGDECHU HEP 4 400K TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(N MAHENDRANAGAR 132KV-BIHAR - NEP,	0 0 1 491 1 0 1 7,34 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -0.7 -0.1 -0.3 -0.1
4 5 6 7 8	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 NER NER NER NER ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGBECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TALJ- 220kV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV-TANARPUR() MAHENDRANAGAR 132kV-TANARPUR() MAHENDRANAGAR 132kV-BIHAR - NEP, 220kV-MUZAFFARP	0 0 0 491 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3 -24	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -0.7 -0.1 -0.3 -0.1 -0.6
4 5 6 7 8	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 NER NER NER NER ER ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPURDUAR RE MANGDECHH ie. ALIPURDUAR RE MANGDECHH ie. ALIPURDUAR RE 200kV CHUKHABIR MALBASE - BINAGU RECEIPT (from TAL- 200kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 132kV-BIHAR - NEP. 220kV-MUZAFFARP BHERAMARA HVDC 132kV-SURAJMANI	0 0 491 0 734 0 1 734 0 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3 -24	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -0.7 -0.1 -0.3 -0.1 -0.6
4 5 6 7 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 KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER NER ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGBECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TALJ- 220kV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV-TANARPUR() MAHENDRANAGAR 132kV-TANARPUR() MAHENDRANAGAR 132kV-BIHAR - NEP, 220kV-MUZAFFARP	0 0 491 0 734 0 1 734 0 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107 -44 -894	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3 -24 -703	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MI) -4.3 -7.7 -0.7 -0.1 -0.1 -0.6 -0.1 -16.9
4 5 6 7 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 KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER NER NER ER NER NER NER ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHH Le. ALIPURDUAR RE MANGDECHH 120kV TALA-BINAGU RECEIPT (from TAL) 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPURN MAHENDRANAGAR 132kV-TANAKPURN MAHENDRANAGAR 132kV-BHAR - NEP, 220kV-MUZAFFARP BHERAMARA HVDC 132kV-SURAJMANI 132kV-SURAJMANI 132kV-SURAJMANI 132kV-SURAJMANI 132kV-SURAJMANI	0 0 1 491 1 0 1 7.34 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107 -44 -894 58	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 -4 -2 -703	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) 4.3 7.7 -0.7 -0.1 -0.3 -0.1 -0.6 -0.1 -16.9 -1.2
4 5 6 7 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 KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER NER ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie, ALIPURDUAR RE MALBASE - BINAGU BECEIPT (from TAL- 200kV CHUKIA-BIR MALBASE - BINAGU BECEIPT (from TAL- 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 132kV-BIHAR - NEP, 220kV-MUZAFFARP BHERAMARA HVDC 132kV-SURAJMANI COMILLA(BANGLAI	0 0 1 491 1 0 1 7.34 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WR-NR 522 997 2286 2109 10 0 46 WR-SR WGES Max (MW) 259 468 76 12 14 -42 -107 -44 -894	0.0 38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 255.7 12.2 10.4 23.7 26.7 0.0 0.0 0.0 73.0 Avg (MW) 178 321 28 -4 14 -3 -24 -703	-217.1 -12.2 -10.4 -23.7 -26.7 -7.2 -0.0 -0.9 -64.9 Energy Exchange (MII) -4.3 -7.7 -0.7 -0.1 -0.1 -0.6 -0.1 -16.9