

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)
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बी-9, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

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 17.08.2020.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-अगस्त-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 17th August 2020, is available at the NLDC website.

धन्यवाद.

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



Report for previous day Date of Reporting: 18-Aug-202

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	60870	40490	35704	21449	2725	161238
Peak Shortage (MW)	408	0	0	0	11	419
Energy Met (MU)	1350	914	786	455	50	3555
Hydro Gen (MU)	348	36	125	139	27	675
Wind Gen (MU)	16	107	155	-	-	278
Solar Gen (MU)*	36.24	12.20	47.82	4.25	0.04	101
Energy Shortage (MU)	2.4	0.0	0.0	0.0	0.1	2.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63424	40720	39914	21815	2792	164407
Time Of Maximum Demand Met (From NLDC SCADA)	22:33	10:42	19:56	19:42	18:56	19:56
B. Frequency Profile (%)	•		•		•	
D		10 - 10 0			10 0 -0 0-	

All India	0.035	0.00	0.52	7.49	8.01	82.71	9.28	
C. Power Sup	ply Position in States							
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day(MW)	maximum Demand(MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	12120	0	274.4	148.5	-1.5	27	0.0
	Harvana	9029	438	198.1	190.4	2.2	313	2.0
	Rajasthan	10589	0	227.1	81.6	0.6	581	0.0
	Delhi	5168	0	108.5	97.6	-1.6	124	0.3
NR	UP	21685	0	422.5	211.3	0.0	376	0.0
	Uttarakhand	1857	0	41.0	19.8	0.9	138	0.0
	HP	1406	0	30.8	-4.8	-0.5	70	0.0
	J&K(UT) & Ladakh(UT)	2195	0	41.8	17.8	-1.1	222	0.0
	Chandigarh	300	0	6.1	6.0	0.1	33	0.0
	Chhattisgarh	3461	0	81.0	25.5	-0.9	205	0.0
	Gujarat	11785	0	252.3	71.3	-2.5	685	0.0
	MP	8456	0	191.7	127.8	-1.6	305	0.0
WR	Maharashtra	16335	0	341.4	123.4	-2.6	503	0.0
	Goa	396	0	8.3	7.8	0.0	54	0.0
	DD	273	0	5.8	5.6	0.2	29	0.0
	DNH	675	0	15.2	15.1	0.1	46	0.0
	AMNSIL	792	0	17.9	1.5	0.4	283	0.0
	Andhra Pradesh	7175	0	150.8	37.3	0.5	590	0.0
	Telangana	5991	0	122.6	46.9	-2.2	562	0.0
SR	Karnataka	7839	0	149.5	35.8	-1.7	1118	0.0
	Kerala	3230	0	64.5	43.5	-0.1	181	0.0
	Tamil Nadu	13853	0	290.8	99.1	-0.6	468	0.0
	Puducherry	387	0	7.9	7.9	0.0	112	0.0
	Bihar	5492	0	111.4	103.3	2.2	473	0.0
	DVC	2930	0	64.1	-45.4	0.8	335	0.0
	Jharkhand	1420	0	27.8	21.2	-1.5	162	0.0
ER	Odisha	4440	0	88.0	12.7	-0.6	361	0.0
	West Bengal	7800	0	163.1	54.9	-0.9	364	0.0
	Sikkim	90	0	1.0	1.2	-0.1	10	0.0
	Arunachal Pradesh	105	2	1.8	1.9	-0.1	23	0.0
	Assam	1787	35	32.4	27.9	0.1	98	0.0
	Manipur	183	1	2.5	2.5	0.0	26	0.0
NER	Meghalaya	317	0	5.5	0.0	-0.2	30	0.0
	Mizoram	90	1	1.5	1.1	0.1	11	0.0
	Nogolond	125	2	2.2	2.2	0.2	12	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	51.8	-3.1	-24.7
Day Peak (MW)	2429.0	-225.1	-1076.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	358.8	-315.6	50.0	-92.7	-0.6	0.0
Actual(MU)	355.7	-313.5	38.5	-81.8	-0.5	-1.6
O/D/U/D(MU)	-3.1	2.1	-11.5	10.8	0.1	-1.6

F. Generation Outage(MW)

Nagaland Tripura

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5773	15167	13322	3165	860	38286
State Sector	11904	26041	14712	4577	47	57281
Total	17677	41208	28034	7742	906	95567

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	506	982	291	436	4	2219
Lignite	27	10	24	0	0	61
Hydro	348	36	125	139	27	675
Nuclear	21	32	47	0	0	100
Gas, Naptha & Diesel	40	64	14	0	26	143
RES (Wind, Solar, Biomass & Others)	72	136	259	4	0	471
Total	1014	1260	759	579	56	3669
					1	1
Share of RES in total generation (%)	7.08	10.78	34.10	0.74	0.07	12.83
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	43.48	16.13	56.81	24.76	47.97	33.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026	
Based on State Max Demands	1.034	

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: 18-Aug-2020 |
| Export (MU) | NET (MU)

1								
Impor 1	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Date of Reporting: Export (MU)	18-Aug-2020 NET (MU)
1	rt/Export of ER (V		110. 01 Circuit	ax import (N14V)	ax Export (NIV)	import (MC)	Export (MU)	mer (MC)
		ALIPURDUAR-AGRA	,	0	904	0.0	22.1	-22.1
2		PUSAULI B/B	-	0	198	0.0	4.9	-4.9
3		GAYA-VARANASI	2	0	643	0.0	8.2	-8.2
4	765 kV	SASARAM-FATEHPUR	1	307	53	2.4	0.0	2.4
5		GAYA-BALIA	1 1	0	563	0.0	10.1	-10.1
6		PUSAULI-VARANASI	1	0	219	0.0	4.1	-4.1
7 8		PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	10	64 722	0.0	0.6 12.2	-0.6 -12.2
9		PATNA-BALIA	4	0	875	0.0	14.4	-14.4
10		BIHARSHARIFF-BALIA	2	Ö	335	0.0	3.9	-3.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	5.2	-5.2
12		BIHARSHARIFF-VARANASI	2	200	94	0.7	0.0	0.7
13		PUSAULI-SAHUPURI	1	0	145	0.0	2.6	-2.6
14		SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 16	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	+	30 0	0	0.5	0.0	0.5 0.0
17		KARMANASA-CHANDAULI	i	Ů	Ů	0.0	0.0	0.0
					ER-NR	3.5	88.2	-84.7
Impor	rt/Export of ER (V	Vith WR)						
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	723	400	3.7	0.0	3.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1511	0	26.3	0.0	26.3
3	765 kV	JHARSUGUDA-DURG	2	122	161	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	309	87	2.3	0.0	2.3
5	400 kV	RANCHI-SIPAT	2	568	0	9.3	0.0	9.3
6	220 kV	BUDHIPADAR-RAIGARH	1	28	107	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	163	0 ER-WR	2.4	0.0	2.4 42.7
Imper	rt/Export of ER (V	Vith SR)			ER-WK	44.0	1.3	44.1
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	219	0.0	5.0	-5.0
2		TALCHER-KOLAR BIPOLE	2	Ŏ	1718	0.0	33.4	-33.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2089	0.0	33.4	-33.4
4	400 kV	TALCHER-I/C	2	1274	298	9.3	0.0	9.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0 ED CD	0.0	0.0	0.0
Imme	rt/Evnort of ED /I	Vith NED)			ER-SR	0.0	71.8	-71.8
1 1	rt/Export of ER (V 400 kV	BINAGURI-BONGAIGAON	2	0	422	0.0	5.0	-5.0
2		ALIPURDUAR-BONGAIGAON	2	0	564	0.0	6.2	-5.0 -6.2
3		ALIPURDUAR-SALAKATI	2	0	140	0.0	1.9	-1.9
			-	*	ER-NER	0.0	13.1	-13.1
Impor	rt/Export of NER							
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.0	-16.0
		Wed MD			NER-NR	0.0	16.0	-16.0
1mpor	rt/Export of WR (HVDC		2	0	2007	0.0	50.0	50.0
2		CHAMPA-KURUKSHETRA VINDHYA CHAL D/B		0	2006 497	0.0	59.9	-59.9
3	HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	0	2372	0.0	7.3 41.6	-7.3 -41.6
4	765 kV	GWALIOR-AGRA	2	Ö	3078	0.0	54.5	-54.5
5		PHAGI-GWALIOR	2	Ö	1588	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	Ö	1201	0.0	43.9	-43.9
7	765 kV	GWALIOR-ORAI	1	413	0	8.9	0.0	8.9
8		SATNA-ORAI	1	0	1640	0.0	33.2	-33.2
9		CHITORGARH-BANASKANTHA	2	0	1152	0.0	15.8	-15.8
10		ZERDA-KANKROLI	1	46	180	0.0	1.7	-1.7
11		ZERDA -BHINMAL	1	66	231	0.0	1.4	-1.4
12	400 kV	VINDHYACHAL -RIHAND	1 2	965	0	22.7	0.0	22.7
13		RAPP-SHUJALPUR	1	0 11	592 0	0.0	8.5	-8.5
14 15		BHANPURA-RANPUR BHANPURA-MORAK	1	0	116	0.0	1.8 1.9	-1.8 -1.9
16		MEHGAON-AURAIYA	i	93	0	0.2	0.1	0.1
17		MALANPUR-AURAIYA	1	56	25	1.0	0.0	1.0
18		GWALIOR-SAWAI MADHOPUR	i	0	0	0.0	0.0	0.0
19	132 kV	D. L. M. CANTEL OF M. L. M. MORNEY D.	2	0				
		RAJGHAT-LALITPUR			0	0.0	0.0	0.0
			•		0 WR-NR		0.0 299.5	0.0 -266.8
Impor	rt/Export of WR (With SR)	- -		WR-NR	0.0 32.8	299.5	-266.8
	HVDC	With SR) BHADRAWATI B/B	-	0	WR-NR 258	0.0 32.8 0.0	299.5	-266.8 -6.1
Impor 1 2	HVDC HVDC	With SR) BHADRAWATI B/B RAIGARH-PUGALUR	2	0 843	WR-NR 258 1292	0.0 32.8 0.0 0.0	299.5 6.1 0.7	-266.8 -6.1 -0.7
Impor	HVDC HVDC 765 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	- 2 2 2	0	WR-NR 258 1292 1228	0.0 32.8 0.0	299.5	-266.8 -6.1 -0.7 -2.9
Impor 1 2 3	HVDC HVDC 765 kV 765 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	- 2 2	0 843 834 0	258 1292 1228 1454	0.0 32.8 0.0 0.0 4.3 0.0	299.5 6.1 0.7 7.2 16.0	-266.8 -6.1 -0.7 -2.9 -16.0
Impor 1 2 3 4	HVDC HVDC 765 kV 765 kV 400 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2 2 2	0 843 834	WR-NR 258 1292 1228	0.0 32.8 0.0 0.0 4.3 0.0 14.1	299.5 6.1 0.7 7.2	-266.8 -6.1 -0.7 -2.9
Impor 1 2 3 4 5	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 2	0 843 834 0 984	WR-NR 258 1292 1228 1454 0 0 0	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	With SR) BHADRAWATI B/B BAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI	2 2 2 2 2 2	0 843 834 0 984	WR-NR 258 1292 1228 1454 0 0 0 9 93	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 2 2 2 1	0 843 834 0 984 0 0	WR-NR 258 1292 1228 1454 0 0 0 WR-SR	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 2 2 2 1	0 843 834 0 984 0	WR-NR 258 1292 1228 1454 0 0 0 WR-SR	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 0.0 30.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 2 2 1 1	0 843 834 0 984 0 0 0	WR-NR 258 1292 1228 1454 0 0 0 WR-SR	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0 Energy Exchang
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 2 2 1 1 1 INTER	0 843 834 0 984 0 0 0	WR-NR 258 1292 1228 1454 0 0 0 WR-SR	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 0.0 30.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMREWADI XELDEM-AMBEWADI REGION	2 2 2 2 2 2 2 1 1 1 INTER Line	0 843 834 0 984 0 0 0 NATIONAL EXCHA! Name	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW)	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW)	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0 Energy Exchang
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	. 2 2 2 2 2 2 2 1 1 1	0 843 834 0 984 0 0 0 0 NATIONAL EXCHA! Name UU-ALIPURDUAR 1&2 CEIPT (from	WR-NR 258 1292 1228 1454 0 0 0 WR-SR	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0 Energy Exchange
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMREWADI XELDEM-AMBEWADI REGION	- 2 2 2 2 2 2 2 2 1 1	0 843 834 0 984 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW)	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW)	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW)	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0 Energy Exchang (MII)
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMREWADI XELDEM-AMBEWADI REGION	2 2 2 2 2 2 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU MALBASE BINAGU	0 843 834 0 834 0 0 984 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW)	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW)	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 0.0 0.0 1.6 -10.0 Energy Exchang (MII)
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B BRAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	- 2 2 2 2 2 2 2 2 1 1	0 843 834 0 984 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR I&2 CEIPT (from != 180MW) URI 1,2,4 (400kV	WR-NR 258 1292 1228 1454 0 0 0 WR-SR WR-SR NGES Max (MW)	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW)	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) -17.1
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI YONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le, ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TAL).	0 843 843 984 0 984 0 0 0 0 0 INATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *188MW) URI 1,2,4 (& 400kV RI) RI LEP (6*1704W) PARA 1&2 (& 220kV	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) 17.1
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B BRAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	- 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400RV MANGDECHU HEP 4 400RV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR	0 843 834 0 984 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR I&2 CEIPT (from != 180MW) URI 1,2,4 (4 400kV RI) i.e. BINAGURI RIP (6 4 10 NW) PARA I&2 (& 220kV A) i.e. BIRPARA	WR-NR 258 1292 1228 1454 0 0 0 WR-SR WR-SR NGES Max (MW)	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW)	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 -0.0 -1.6 -10.0 Energy Exchang
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI YONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400RV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400RV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ MALBASE) BIRPAR RECEIPT (from CHU	0 843 834 834 0 984 0 0 0 884 0 0 0 0 NATIONAL EXCHA! Name RU-ALIPURDUAR I&2 CEIPT (from P† 180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI RI HEP (6*170MW) PARA I&2 (& 220kV	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711	-266.8 -6.1 -9.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) 17.1 24.8
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI YONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	- 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400RV MANGDECHU HEP 4 400RV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR	0 843 834 834 0 984 0 0 0 884 0 0 0 0 NATIONAL EXCHA! Name RU-ALIPURDUAR I&2 CEIPT (from P† 180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI RI HEP (6*170MW) PARA I&2 (& 220kV	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764	0.0 32.8 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711	-266.8 -6.1 -9.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) 17.1 24.8
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400RV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400RV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ MALBASE) BIRPAR RECEIPT (from CHU	0 843 834 834 0 984 0 0 0 884 0 0 0 0 NATIONAL EXCHA! Name RU-ALIPURDUAR I&2 CEIPT (from P† 180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI RI HEP (6*170MW) PARA I&2 (& 220kV	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR NGES Max (MW) 764 1166	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MIT) -17.1 24.8 7.4
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) 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 2 2 2 2 2 1 1 1 1 INTER LINE WAS ARREST OF THE WAS ARR	0 843 834 0 984 984 0 0 984 0 0 0 NATIONAL EXCHA! Name Uva-Lipurduar 1&2 CEIPT (from ** 180MV) UR1 1,2,4 (& 400KV) UR1 1,2,4 (& 400KV) Ali (& BINAGURI RIEP (6-170MV) PARA 1&2 (& 220KV A) 1&6 BIRPARA KHA HEF 4*84MW) SALAKATI	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) -17.1 24.8 7.4 -1.2
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400RV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400RV TALA BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ MALBASE) BIRPAR RECEIPT (from CHU	0 843 834 0 984 984 0 0 984 0 0 0 NATIONAL EXCHA! Name Uva-Lipurduar 1&2 CEIPT (from ** 180MV) UR1 1,2,4 (& 400KV) UR1 1,2,4 (& 400KV) Ali (& BINAGURI RIEP (6-170MV) PARA 1&2 (& 220KV A) 1&6 BIRPARA KHA HEF 4*84MW) SALAKATI	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR NGES Max (MW) 764 1166	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW)	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MIT) -17.1 24.8 7.4
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) 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 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPUNJAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU ECEIPT (from TAL/ 220kV CHUKHA-BIR AGRECEIPT (from TAL/ 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	0 843 834 0 984 0 0 0 0 0 NATIONAL EXCHA! Name UL-ALIPURDUAR 1&2 CEIPT (from 19 180MW) URI 1,2,4 (4 400kV RB) i.e. BINAGURI ALIPURDUAR 1&2 ALIPURDUAR 1&3 ALIPURDUAR 1&4 AL	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR NGES Max (MW) 764 1166 367	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 4.3 0.0 0.0 4.4 4.6 20.0 Min (MW) 0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) -17.1 24.8 7.4 -1.2
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER		0 843 834 0 984 994 0 0 0 NATIONAL EXCHAI Name U.A.LIPURDUAR 1.82 CEIPT (from 1-180MW) 180MW 180MW 180MW 180MW 180MW 180MW 180 1.24 (4.600kV RI 1.6. BINAGURI RI PC 6470MW) - SALAKATI iia	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) -17.1 24.8 7.4 -1.2
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B BRAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI Region ER ER ER NER	- 2 2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPUNJAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU ECEIPT (from TAL/ 220kV CHUKHA-BIR AGRECEIPT (from TAL/ 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	0 843 834 0 984 994 0 0 0 NATIONAL EXCHAI Name U.A.LIPURDUAR 1.82 CEIPT (from 1-180MW) 180MW 180MW 180MW 180MW 180MW 180MW 180 1.24 (4.600kV RI 1.6. BINAGURI RI PC 6470MW) - SALAKATI iia	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR NGES Max (MW) 764 1166 367	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 4.3 0.0 0.0 4.4 4.6 20.0 Min (MW) 0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MII) -17.1 -24.8 -7.4 -1.2 -1.3
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER	- 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH Le ALIPURDUAR RE MANGDECHH LE ALIPURDUAR RECEIPT (from TALL 20kV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR	0 843 834 93 984 984 90 984 90 00 00 NATIONAL EXCHA! Name 19180MW 1918 1.2.2.4 (& 400K) 1918 1.2.2.4 (& 400K) 1918 1.2.2.4 (& 400K) 1918 1.2.4 (&	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 0 44 42	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 -1.6 -10.0 L6 -10.0 Energy Exchang (MII) 17.1 24.8 7.4 -1.2 -1.3
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	With SR) BHADRAWATI B/B BRAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI Region ER ER ER NER		0 843 834 93 984 984 90 984 90 00 00 NATIONAL EXCHA! Name 19180MW 1918 1.2.2.4 (& 400K) 1918 1.2.2.4 (& 400K) 1918 1.2.2.4 (& 400K) 1918 1.2.4 (&	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR NGES Max (MW) 764 1166 367	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 4.3 0.0 0.0 4.4 4.6 20.0 Min (MW) 0	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -10.0 -10.0 Energy Exchang (MII) -17.1 -24.8 -7.4 -1.2 -1.3
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER	- 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANDECHH ic. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA BINAGI MALBASE - BINAGU CHUKHA-BIR RECEIPT (from TAL/220kV CHUKHA-BIR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR 132kV-BIHAR - NEP.	0	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 0 44 42	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 -0.0 -10.0 1.6 -10.0 Energy Exchang (MII) 17.1 24.8 7.4 -1.2 -1.3
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER	- 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANDECHH ic. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA BINAGI MALBASE - BINAGU CHUKHA-BIR RECEIPT (from TAL/220kV CHUKHA-BIR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR 132kV-BIHAR - NEP.	0 843 834 93 984 984 90 984 90 00 00 NATIONAL EXCHA! Name 19180MW 1918 1.2.2.4 (& 400K) 1918 1.2.2.4 (& 400K) 1918 1.2.2.4 (& 400K) 1918 1.2.4 (&	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 0 44 42	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50	-266.8 -6.1 -0.7 -2.9 -16.0 14.1 -0.0 -10.0 1.6 -10.0 Energy Exchang (MII) 17.1 24.8 7.4 -1.2 -1.3
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) 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	- 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANDECHH ic. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA BINAGI MALBASE - BINAGU CHUKHA-BIR RECEIPT (from TAL/220kV CHUKHA-BIR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR 132kV-BIHAR - NEP.	0	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR WGES Max (MW) 764 1166 367 64 67 -44	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 14.1 0.0 0.0 4.3 0.0 4.4 0.0 0.0 4.4 4.6 0 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -10.0 -10.0 Energy Exchang (MII) -17.1 -24.8 -7.4 -1.2 -1.3 -6.7
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER NER NER ER ER ER	- 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER LINE HORY MANGDECHH Le. ALIPURDUAR RE MANGDECHH Le. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TALL 220kV CHUKHA-BIR MALBASE - BINAGU RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 132kV-BIHAR - NEP, 220kV-MUZAFFARP	0	WR-NR 258 1292 1228 1454 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67 -44 55	0.0 32.8 0.0 0.0 0.0 4.3 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 44 42	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30	-266.8 -6.1 -0.7 -2.9 -16.0 -1.6 -10.0 Energy Exchang (MII) 17.1 24.8 7.4 -1.2 -1.3 -0.7
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) 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	- 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANDECHH ic. ALIPURDUAR RE MANGDECHU HEF 4 400kV TALA BINAGI MALBASE - BINAGU CHUKHA-BIR RECEIPT (from TAL/220kV CHUKHA-BIR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR 132kV-BIHAR - NEP.	0	WR-NR 258 1292 1228 1454 0 0 WR-SR WR-SR WGES Max (MW) 764 1166 367 64 67 -44	0.0 32.8 0.0 0.0 0.0 4.3 0.0 14.1 0.0 0.0 14.1 0.0 0.0 4.3 0.0 4.4 0.0 0.0 4.4 4.6 0 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -10.0 -10.0 Energy Exchang (MII) -17.1 -24.8 -7.4 -1.2 -1.3 -6.7
Impor 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER NER NER ER ER ER	- 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line Line Line Line Line Line Line Line	0	WR-NR 258 1292 1228 1454 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67 -44 55	0.0 32.8 0.0 0.0 0.0 4.3 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 44 42	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30	-266.8 -6.1 -0.7 -2.9 -16.0 -16.0 -10.0 -10.0 Energy Exchang (MII) -17.1 -24.8 -1.2 -1.3 -0.7 -0.4 -2.7
Import 1 2 3 4 4 5 6 7 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	With SR) BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER NER NER NER NER ER ER ER	- 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line GRAND AND AND AND AND AND AND AND AND AND	0 843 834 984 90 984 90 00 00 00 00 00 00 00 00 00 00 00 00	WR-NR 258 1292 1228 1454 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67 -44 55	0.0 32.8 0.0 0.0 0.0 4.3 4.3 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 44 42	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30	-266.8 -6.1 -9.7 -2.9 -16.0 -16.0 -10.0 -10.0 -10.0 Energy Exchang (MII) -17.1 -24.8 -7.4 -1.2 -1.3 -0.7 -0.4 -2.7
Import 1 2 3 4 4 5 6 7 7 8	HVDC HVDC 765 kV 765 kV 260 kV 220 kV 220 kV 220 kV 220 kV	With SR) 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 NER ER ER ER ER ER	- 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line Line Line Line Line Line Line Line	0 843 834 984 90 984 90 00 00 00 00 00 00 00 00 00 00 00 00	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67 -44 55 -236	0.0 32.8 0.0 0.0 0.0 4.3 3.0 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 0 44 42 0 44	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30 15	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MITh 17.1 24.8 7.4 -1.2 -1.3 -0.7 0.4 -2.7 -2.1.8
Import 1 2 3 4 4 5 6 7 7 8	HVDC HVDC 765 kV 765 kV 260 kV 220 kV 220 kV 220 kV 220 kV	With SR) 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 NER ER ER ER ER ER	- 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line GRAND AND AND AND AND AND AND AND AND AND	0 843 834 0 984 0 0 0 0 NATIONAL EXCHA! Name RU-ALIPURDUAR I&2 CEIPT (from 9180MW) RI 1,2,4 (& 400kV RI) i.e. BINAGURI ALE (& 220kV ALE (& 220kV ALE (& 240kV ALE (&	WR-NR 258 1292 1228 1454 0 0 0 93 WR-SR NGES Max (MW) 764 1166 367 64 67 -44 55 -236	0.0 32.8 0.0 0.0 0.0 4.3 3.0 0.0 14.1 0.0 0.0 1.6 20.0 Min (MW) 0 0 44 42 0 44	299.5 6.1 0.7 7.2 16.0 0.0 0.0 0.0 30.0 Avg (MW) 711 1031 310 -50 -55 -30 15	-266.8 -6.1 -0.7 -2.9 -16.0 -14.1 -0.0 -1.6 -10.0 Energy Exchang (MITh 17.1 24.8 7.4 -1.2 -1.3 -0.7 0.4 -2.7 -2.1.8