

## 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

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 03.08.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 03<sup>rd</sup> August 2020, is available at the NLDC website.

धन्यवाद.

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



Date of Reporting: Report for previous day A. Power Supply Position at All India and Regional level 04-Aug-2020

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	55901	40256	34813	22784	2886	156640
Peak Shortage (MW)	708	0	0	0	89	797
Energy Met (MU)	1325	1003	805	474	55	3662
Hydro Gen (MU)	356	21	73	140	30	621
Wind Gen (MU)	44	66	198	-	-	308
Solar Gen (MU)*	41.40	21.37	56.83	4.39	0.04	124
Energy Shortage (MU)	9.8	0.0	0.0	0.0	1.0	10.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61693	43306	39198	23660	2865	160341
Time Of Maximum Demand Met (From NLDC SCADA)	22:34	06:54	12:15	20:59	20:12	22:34

B. Frequency P	B. Frequency Profile (%)											
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05					
All India	0.028	0.00	0.00	3.81	3.81	78.27	17.93					

. Power Sup	ply Position in States	Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum		Schedule	( ) ( )		Shortage
Region	States	day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	11851	0	256.0	144.9	-0.8	89	0.0
	Haryana	8771	0	191.9	166.5	1.0	241	0.0
	Rajasthan	10481	0	230.0	67.9	-6.0	311	0.0
	Delhi	5415	0	105.1	91.2	-2.0	250	0.0
NR	UP	21406	0	431.1	212.7	0.1	1006	0.0
	Uttarakhand	1612	0	35.4	16.9	-1.0	62	0.0
	HP	1260	0	28.7	-4.7	-1.9	22	0.0
	J&K(UT) & Ladakh(UT)	2164	541	41.2	18.1	0.4	493	9.8
	Chandigarh	304	0	6.0	6.0	-0.1	34	0.0
	Chhattisgarh	4322	0	100.6	35.0	-0.5	245	0.0
	Gujarat	13109	0	281.9	107.9	-3.2	440	0.0
	MP	9400	0	209.2	117.6	-4.0	430	0.0
WR	Maharashtra	16664	0	369.9	127.8	-5.3	405	0.0
	Goa	440	0	8.6	8.6	-0.4	38	0.0
	DD	195	0	3.8	4.0	-0.1	11	0.0
	DNH	549	0	12.7	12.9	-0.2	30	0.0
	AMNSIL	812	0	15.9	4.2	0.5	324	0.0
	Andhra Pradesh	7220	0	157.0	33.5	1.9	541	0.0
	Telangana	9725	0	189.0	83.0	0.4	470	0.0
SR	Karnataka	7754	0	147.4	38.7	-3.2	696	0.0
	Kerala	2805	0	58.2	43.6	0.3	155	0.0
	Tamil Nadu	11922	0	246.6	82.8	-4.5	500	0.0
	Puducherry	342	0	6.9	7.4	-0.4	19	0.0
	Bihar	6123	0	118.3	112.9	1.5	490	0.0
	DVC	3083	0	63.3	-34.3	0.8	330	0.0
	Jharkhand	1515	0	27.4	20.6	-1.7	120	0.0
ER	Odisha	4165	0	84.0	6.5	-0.2	325	0.0
	West Bengal	9161	0	179.8	60.3	2.1	450	0.0
	Sikkim	94	0	1.0	1.2	-0.2	15	0.0
	Arunachal Pradesh	110	1	1.8	1.5	0.3	43	0.0
	Assam	1887	67	35.8	32.1	0.0	180	1.0
	Manipur	202	1	2.9	2.5	0.3	25	0.0
NER	Meghalaya	289	0	5.1	0.0	-0.3	30	0.0
	Mizoram	92	1	1.7	1.2	0.3	13	0.0
	Nagaland	121	1	2.3	2.4	-0.4	7	0.0
	Tripura	293	3	5.5	6.2	0.4	44	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	54.2	-2.2	-26.1
Day Pook (MW)	2296.0	114.2	1000 0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	311.2	-260.8	60.6	-108.3	-2.7	0.0
Actual(MU)	299.9	-269.1	43.0	-76.0	-2.0	-4.2
O/D/U/D(MU)	-11.3	-8.3	-17.6	32.3	0.7	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4508	14337	11112	2345	580	32881
State Sector	10414	20549	14170	5542	47	50721
Total	14922	34885	25282	7887	626	83602

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	513	1084	338	447	7	2388
Lignite	17	10	20	0	0	47
Hydro	356	21	73	140	30	621
Nuclear	21	33	23	0	0	77
Gas, Naptha & Diesel	41	49	13	0	25	128
RES (Wind, Solar, Biomass & Others)	106	98	308	4	0	516
Total	1054	1294	775	592	63	3777
Share of RES in total generation (%)	10.03	7.58	39.73	0.75	0.06	13.66
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	45.86	11.69	52.11	24.49	48.65	32.14

Η.	All	India	Demand	Diversity	Factor	

Based on Regional Max Demands	1.065
Based on State Max Demands	1.096

Dasset on State Wax Demanus

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:	04-Aug-2020
SI	Valena I and	Line Details	N Ciit	Man Immant (MW)	Max Export (MW)	Investor (MII)	Export (MU)	NET (MU)
No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impo	rt/Export of ER (V							
1		ALIPURDUAR-AGRA	2	0	1802	0.0	42.8	-42.8
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.6	-9.6
3		GAYA-VARANASI	2	0	670	0.0	7.7	-7.7
4		SASARAM-FATEHPUR	1	306	0	4.8	0.0	4.8
5		GAYA-BALIA	1	0	484	0.0	4.5	-4.5
6	400 kV	PUSAULI-VARANASI	1	0	332	0.0	7.1	-7.1
- 7 - 8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	2	0 78	132 390	0.0	2.2	-2.2
9	400 KV	PATNA-BALIA	4	0	860	0.0	6.0 14.3	-6.0 -14.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	244	0.0	3.6	-3.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	5.8	-5.8
12		BIHARSHARIFF-VARANASI	2	186	10	1.4	0.0	1.4
13	220 kV	PUSAULI-SAHUPURI	ī	0	125	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
16		KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	6.6	105.4	-98.8
Impo	rt/Export of ER (V							
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1071	0	17.8	0.0	17.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1595	0	28.6	0.0	28.6
3	765 kV	JHARSUGUDA-DURG	2	230	0	3.2	0.0	3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	223	131	1.5	0.0	1.5
5	400 kV	RANCHI-SIPAT	2	550	0	10.2	0.0	10.2
6		BUDHIPADAR-RAIGARH	1	26	99	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	179	0	3.2	0.0	3.2
				_	ER-WR	64.4	0.7	63.7
Impo	rt/Export of ER (V							
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.8	-12.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1727	0.0	34.2	-34.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	1891	0.0	29.3	-29.3
4	400 kV	TALCHER-I/C	2	901	656	5.8	0.0	5.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	76.3	-76.3
Impo	rt/Export of ER (V		_				_	_
1		BINAGURI-BONGAIGAON	2	0	670	0.0	7.6	-7.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	23	0	0.0	2.0	-2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	54	0.0	2.0	-2.0
	//E / CNED	AVAL ND)			ER-NER	0.0	11.6	-11.6
	rt/Export of NER		1 2		504	0.0	17.0	150
_1_	HVDC	BISWANATH CHARIALI-AGRA	2	0	704 NER-NR	0.0	15.9	-15.9
Imno	ut/Evnout of WD (	With ND)			NEK-NK	0.0	15.9	-15.9
1mpo	rt/Export of WR ( HVDC	CHAMPA-KURUKSHETRA	2	Δ.	1504	0.0	33.9	22.0
2	HVDC	VINDHYACHAL B/B		0 272	1504 0	7.3	0.0	-33.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	30.6	7.3 -30.6
4	765 kV	GWALIOR-AGRA	2	0	2971	0.0	51.4	-51.4
5		PHAGI-GWALIOR	2	Ŏ	1585	0.0	26.2	-26.2
6	765 kV	JABALPUR-ORAI	2	0	1197	0.0	43.4	-43.4
7		GWALIOR-ORAI	1	405	0	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1578	0.0	31.9	-31.9
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1008	0.0	9.9	-9.9
10		ZERDA-KANKROLI	1				0.0	0.4
10			1 1	109	118	0.4	0.0	1 0.4
11		ZERDA -BHINMAL	1	109 287	118 84	0.4 2.3	0.0	0.4 2.3
					84 0			
11	400 kV	ZERDA -BHINMAL		287	84	2.3	0.0	2.3
11 12 13 14	400 kV 400 kV 400 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	1 1	287 967 0	84 0 581 0	2.3 22.6 0.0 0.0	0.0 0.0 7.4 1.7	2.3 22.6 -7.4 -1.7
11 12 13	400 kV 400 kV 400 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	1 1 2	287 967 0 11	84 0 581	2.3 22.6 0.0	0.0 0.0 7.4	2.3 22.6 -7.4
11 12 13 14 15 16	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-BHANPUR BHANPURA-WAURAIYA	1 1 2 1 1 1	287 967 0 11 0 85	84 0 581 0 114	2.3 22.6 0.0 0.0 0.0 0.4	0.0 0.0 7.4 1.7 1.9 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4
11 12 13 14 15 16	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 2 1 1 1 1	287 967 0 11 0 85	84 0 581 0 114 0	2.3 22.6 0.0 0.0 0.0 0.4 1.2	0.0 0.0 7.4 1.7 1.9 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2
11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA -BHINMAL VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1 1 2 1 1 1 1 1	287 967 0 11 0 85 51	84 0 581 0 114 0 18	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0	0.0 0.0 7.4 1.7 1.9 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0
11 12 13 14 15 16	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 2 1 1 1 1	287 967 0 11 0 85	84 0 581 0 114 0 18 0	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0
11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 2 1 1 1 1 1	287 967 0 11 0 85 51	84 0 581 0 114 0 18	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0	0.0 0.0 7.4 1.7 1.9 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0
11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (	ZERDA -BHINMAL VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 2 1 1 1 1 1	287 967 0 11 0 85 51	84 0 581 0 114 0 18 0 WR-NR	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0
11 12 13 14 15 16 17 18 19 Impo	400 kV 400 kV 200 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 153 kV 154 kV 155 kV 156 kV 157 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 2 2 1 1 1 1 1 1 2	287 967 0 111 0 85 51 0	84 0 581 0 1114 0 18 0 WR-NR	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 238.3	2.3 22.6 -7.4 -1.7 -1.9 -0.4 1.2 0.0 0.0 -196.5
11 12 13 14 15 16 17 18 19 Impo	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR ( HVDC HVDC	ZERDA -BHINMAL VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARI-PUGALUR	1 1 2 1 1 1 1 1 1 1 2	287 967 0 11 0 85 51 0 0	84 0 581 0 114 0 18 0 WR-NR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 238.3	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5
11 12 13 14 15 16 17 18 19 Impo 1 2	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 152 kV 153 kV	ZERDA - BHINMAL VINDHYACHAL - RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARII-PUGALUR SOLAPUR-RAICHUR	1 1 2 2 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2	287 967 0 111 0 85 51 0 0	84 0 581 0 114 0 18 0 0 WR-NR 779 0 994	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 238.3	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 -196.5
11 12 13 14 15 16 17 18 19 Impo 1 2 3	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WALIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SN) BHADRAWATI B/B RAIGARII-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 2 2 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2	287 967 0 111 0 85 51 0 0	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 238.3 7.1 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 -0.4 -1.2 -0.0 -0.0 -196.5 -7.1 -7.1 -1.9 -4.2 -19.6
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 2210 kV 222 kV 232 kV 132 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV	ZERDA - BHINMAL VINDHYACHAL - RHAND RAPP-SHUJALPÜR BHANPURA-RANPÜR BHANPURA-RANPÜR BHANPURA-MORAK MEHGAON-AURAIYA MALANPÜR-AURAIYA GWALIOR-SAWAI MADHOPÜR RAJGHAT-LALITPÜR With SR) BHADRAWATI B/B RAIGARIP-ÜGALÜR SOLAPÜR-RAICHÜR WARDHA-NIZAMABAD KOLHAPÜR-KÜDĞI	1 1 2 2 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2	287 967 0 111 0 85 51 0 0	84 0 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 238.3 7.1 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 0.4 -1.2 0.0 -196.5 -7.1 -7.1 -7.1 -7.1 -7.1 -7.1 -7.1 -7.1
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 2210 kV 132 kV 132 kV 135 kV 17/5 kV 400 kV 400 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV 230 kV 240 kV 250 kV 260 kV 270	ZERDA - BHINMAL VINDHYACHAL - RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANAW MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KHKODI	1 1 2 2 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2	287 967 0 111 0 85 51 0 0 0 1191 249 894	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 1.4 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 0.0	2.3 22.6 -7.4 -1.7 -1.9 -0.4 -1.2 -0.0 -196.5 -7.1 -7.1 -1.9 -1.4 -1.2 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 2 2 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2	287 967 0 111 0 85 51 0 0	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 1.4 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 -0.4 -1.2 -0.0 -0.0 -196.5  -7.1 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 2210 kV 132 kV 132 kV 135 kV 17/5 kV 400 kV 400 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV 230 kV 240 kV 250 kV 260 kV 270	ZERDA - BHINMAL VINDHYACHAL - RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANAW MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KHKODI	1 1 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1	287 967 0 111 0 85 51 0 0 0 1191 249 894	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 4.2 0.0 14.1 0.0 0.0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 10	2.3 22.6 -7.4 -1.7 -1.9 0.4 -1.2 0.0 0.0 -196.5  -7.1 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1	287 967 0 111 0 85 51 0 0 0 1191 249 894 0 0	84 0 581 0 1114 0 0 18 0 0 WR-NR 779 0 994 1888 0 0 0 WR-NR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 1.4 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 -0.4 -1.2 -0.0 -0.0 -196.5  -7.1 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1	287 967 0 111 0 85 51 0 0 0 1191 249 894	84 0 581 0 1114 0 0 18 0 0 WR-NR 779 0 994 1888 0 0 0 WR-NR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 4.2 0.0 14.1 0.0 0.0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 10	2.3 22.6 -7.4 -1.7 -1.9 -0.4 -1.2 -0.0 -0.0 -196.5  -7.1 -7.1 -1.9 -1.96 -1.96 -7.8
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 1 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	287 967 0 111 0 85 51 0 0 0 1191 249 894 0 0	84 0 581 0 1114 0 0 18 0 0 WR-NR 779 0 994 1888 0 0 0 WR-NR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 4.2 0.0 14.1 0.0 0.0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 10	2.3 22.6 -7.4 -1.7 -1.9 0.4 -1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.0 0.0 -19.6 -7.8
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 165 kV 1765 kV 176	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1	287 967 0 111 0 85 51 0 0 0 1191 249 894 0 0 1 NATIONAL EXCHA	84 0 581 0 1114 0 18 0 0 WR-NR 779 0 994 1888 0 0 0 WR-SR	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 41.8 0.0 4.2 0.0 4.2 0.0 0.0 4.2 0.0 0.6 18.9	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 -0.4 -1.2 -0.0 -0.0 -196.5  -7.1 -0.0 -19.6 -14.1 -0.0 -0.0 -1.4 -7.8
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 165 kV 1765 kV 176	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	1	287 967 0 11 0 85 51 0 0 0 0 0 0 0 1191 1249 894 0 0 1 1 NATIONAL EXCHA	84 0 581 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 42 0.0 14.1 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 165 kV 1765 kV 176	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1	287 967 0 111 0 85 51 0 0 1191 249 894 0 1 1 NATIONAL EXCHA Name CEIPT (from	84 0 581 0 1114 0 18 0 0 WR-NR 779 0 994 1888 0 0 0 WR-SR	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 41.8 0.0 4.2 0.0 4.2 0.0 0.0 4.2 0.0 0.6 18.9	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.0 0.0 -7.1 -7.2 -7.3 -7.3 -7.4 -7.3 -7.1 -7.1 -7.1 -7.1 -7.1 -7.1 -7.1 -7.1
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 165 kV 1765 kV 176	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	287   967     0     11   0	84 0 581 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 42 0.0 14.1 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 1765 kV 17	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA 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  Region	1	287 967 0 111 0 85 51 0 0 0 1191 0 0 0 1191 249 0 1191 249 1 1 NATIONAL EXCHA Name UL-ALIPURDUAR 1&2 CEIPT (from **180MW)	84 0 581 0 1114 0 118 0 WR-NR 779 0 994 1888 0 0 0 0 WR-SR NGES Max (MW)	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 1.238.3 7.1 0.0 1.9.6 0.0 1.9.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 -1.2 0.0 0.0 -196.5  -7.1 -19.6 -19.6 -7.8  Energy Exchange (MI) 18.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 1765 kV 17	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	1	287 967 0 111 0 85 51 0 0 0 0 0 0 0 0 0 0 0 0 1191 249 894 0 0 1 1 NATIONAL EXCHA Name UL-ALIPURDUAR 1&2 CEIPT (from *180MW) CRIT,2.4 (& 400kV R) i.e. BINACURI	84 0 581 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 42 0.0 14.1 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA 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  Region	1	287   967     967	84 0 581 0 1114 0 118 0 WR-NR 779 0 994 1888 0 0 0 0 WR-SR NGES Max (MW)	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 1.238.3 7.1 0.0 1.9.6 0.0 1.9.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 -19.6 -19.6 -7.1 -19.6 -7.8  Energy Exchange (MII)
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 140 C 155 kV 165 kV 165 kV 1765 kV 17	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA 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  Region	1	287   967   967   967   967   967   967   967   967   967   968	84 0 581 0 1114 0 118 0 WR-NR 779 0 994 1888 0 0 0 0 WR-SR NGES Max (MW)	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 1.238.3 7.1 0.0 1.9.6 0.0 1.9.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 -19.6 -19.6 -7.1 -19.6 -7.8  Energy Exchange (MII)
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA 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	287   967   967   967   967   967   967   967   967   967   968	84 0 1581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR WR-SR NGES Max (MW)	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8  0.0 41.8  0.0 41.8  Min (MW)	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.38.3	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH 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 ER	1	287   967   967   111   0   0   111   0   85   51   0   0   119   0   0   1191   249   0   0   1191   249   0   0   1   1   1   1   1   1   1   1	84 0 1581 0 1114 0 118 0 WR-NR  779 0 994 1888 0 0 0 68 WR-SR  NGES Max (MW)  765	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 4.2 0.0 14.1 0.0 0.6 18.9  Min (MW)  0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 19.6 0.0 0.0 0.0 26.7  Avg (MW)  764	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA 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	287   967   967   111   0   0   111   0   85   51   0   0   119   0   0   1191   249   0   0   1191   249   0   0   1   1   1   1   1   1   1   1	84 0 1581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR WR-SR NGES Max (MW)	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8  0.0 41.8  0.0 41.8  Min (MW)	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.38.3	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH 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 ER	1	287   967   967   111   0   0   111   0   85   51   0   0   119   0   0   1191   249   0   0   1191   249   0   0   1   1   1   1   1   1   1   1	84 0 1581 0 1114 0 118 0 WR-NR  779 0 994 1888 0 0 0 68 WR-SR  NGES Max (MW)  765	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 4.2 0.0 14.1 0.0 0.6 18.9  Min (MW)  0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 19.6 0.0 0.0 0.0 26.7  Avg (MW) 764	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 -196.5  -7.1 -1.9 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  REGion  ER  ER  ER  ER	1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 581 0 114 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR NGES Max (MW) 765	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 15.1	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.6 0.0 0.0 0.0 0.0 19.6 0.0 19.6 0.0 19.6 0.0 0.0 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3  25.4
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH 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 ER	1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 1581 0 1114 0 118 0 WR-NR  779 0 994 1888 0 0 0 68 WR-SR  NGES Max (MW)  765	2.3 22.6 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 4.2 0.0 14.1 0.0 0.6 18.9  Min (MW)  0	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 238.3 7.1 0.0 0.0 0.0 19.6 0.0 0.0 0.0 26.7  Avg (MW) 764	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 -196.5  -7.1 -1.9 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  REGion  ER  ER  ER  ER	1	287 967 0 111 0 85 51 0 0 0 119 0 0 0 0 0 1191 249 0 1191 249 1 0 1 1191 249 1 0 0 1 1191 249 1 0 0 1 1191 249 0 0 1 1 1 NATIONAL EXCHA Name UVALIPURDUAR 1&2 CEIPT (from **180MW) URI 1.2.4 (& 400kV Rf) i.e. BINAGURI HEP (**0*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	84 0 581 0 114 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR NGES Max (MW) 765	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 15.1	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.6 0.0 0.0 0.0 0.0 19.6 0.0 19.6 0.0 19.6 0.0 0.0 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3  25.4
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLIAPUR-KUDGI KOLIAPUR-KUDGI KOLIAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGION ER ER ER  ER  NER	1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 0 WR-SR NGES Max (MW) 765	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8  Min (MW)  1051	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.38.3  7.1 0.0 0.0 19.6 0.0 0.0 0.0 0.0 26.7  Avg (MW) 764  1058	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 -19.6 -7.1 0.0 0.0 -19.6 -7.1 -19.6 -7.1 -19.6 -7.1 -19.6 -7.1 -19.6 -7.8  Energy Exchange (MII)  18.3  25.4  7.9 -1.2
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  REGion  ER  ER  ER  ER	1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 581 0 114 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 WR-SR NGES Max (MW) 765	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.0 14.1 0.0 0.0 15.1	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1238.3 7.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.6 0.0 0.0 0.0 0.0 19.6 0.0 19.6 0.0 19.6 0.0 0.0 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3  25.4
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 21 kV 220 kV 220 kV 220 kV 220 kV 23 kV 24 kV 25 kV 26 kV 27 kV 28 kV 29 kV 20 kV 21 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLIAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER  NER	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 0 WR-SR NGES Max (MW) 765	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.6 18.9  Min (MW)  0 -45 -51	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.38.3  7.1 0.0 0.0 19.6 0.0 0.0 0.0 0.0 26.7  Avg (MW) 764  1058	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 -19.6 -7.1 0.0 0.0 -19.6 -7.1 -19.6 -7.1 -19.6 -7.1 -19.6 -7.1 -19.6 -7.8  Energy Exchange (MII)  18.3  25.4  7.9 -1.2
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 C 155 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLIAPUR-KUDGI KOLIAPUR-KUDGI KOLIAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGION ER ER ER  ER  NER	1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 0 WR-SR NGES Max (MW) 765	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8  Min (MW)  1051	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.38.3  7.1 0.0 0.0 19.6 0.0 0.0 0.0 0.0 26.7  Avg (MW) 764  1058	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 -19.6 -7.1 0.0 -19.6 -7.1 -1.9 -19.6 -7.1 -1.9 -19.6 -7.1 -1.1 -1.1 -1.2 -1.3
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 21 kV 220 kV 220 kV 220 kV 220 kV 23 kV 24 kV 25 kV 26 kV 27 kV 28 kV 29 kV 20 kV 21 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLIAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER  NER	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	287   967   967   967   967   967   967   967   967   967   967   968	84 0 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 68 WR-SR Max (MW) 765 1061 373 -53	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.6 18.9  Min (MW)  0 -45 -51	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1238.3  7.1 0.0 0.0 19.6 0.0 0.0 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 -19.6 -7.1 0.0 0.0 -196.5  -7.1 -7.1 0.0 0.0 -19.6 -7.8  Energy Exchange (MII) 18.3  25.4  7.9 -1.2
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 21 kV 220 kV 220 kV 220 kV 220 kV 23 kV 24 kV 25 kV 26 kV 27 kV 28 kV 29 kV 20 kV 21 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRURA-HORAW BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KHIKODI PONDA-AMBEWADI  REGION ER  ER  ER  NER  NER  NER	I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	287   967	84 0 0 581 0 114 0 18 0 WR-NR 779 0 994 1888 0 0 0 68 WR-SR NGES Max (MW) 765 1061 373 -53	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8  0.0 41.8  0.0 14.1 0.0 14.1 0.0 15.1  0  1051	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.6 0.0 0.0 0.0 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 1.2 0.0 0.0 -196.5  -7.1 0.0 4.2 -19.6 14.1 0.0 0.6 -7.8  Energy Exchange (MII) 18.3 25.4  7.9 -1.2 -1.3 -0.9
11 12 13 14 15 16 17 18 19 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 132 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 20 kV 21 kV 220 kV 220 kV 220 kV 220 kV 23 kV 24 kV 25 kV 26 kV 27 kV 28 kV 29 kV 20 kV 21 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV 22 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLIAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER  NER	1	287   967	84 0 0 581 0 1114 0 18 0 WR-NR 779 0 994 1888 0 0 0 68 WR-SR Max (MW) 765 1061 373 -53	2.3 22.6 0.0 0.0 0.0 0.0 0.4 1.2 0.0 0.0 41.8 0.0 0.0 41.8 0.0 0.0 14.1 0.0 0.6 18.9  Min (MW)  0 -45 -51	0.0 0.0 7.4 1.7 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1238.3  7.1 0.0 0.0 19.6 0.0 0.0 0.0 19.6 0.0 19.6 0.0 19.6 0.0 19.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.3 22.6 -7.4 -1.7 -1.9 0.4 -1.2 0.0 0.0 -196.5  -7.1 -19.6 -7.8  Energy Exchange (MII) 18.3 25.4 -1.2 -1.3 -0.9

	ER	BHERAMARA HVDC(BANGLADESH)	-958	-951	-955	-22.9
BANGLADESH	NED	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	70	0	-65	-1.6
	NED	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	70	0	-65	-1.6