

## 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

\_\_\_\_\_

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 31<sup>st</sup> March 2022

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 30.03.2022.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-मार्च -2022 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 30<sup>th</sup> March 2022, is available at the NLDC website.

धन्यवाद,

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



Report for previous day A. Power Supply Position at All India and Regional level Date of Reporting: 31-Mar-2022 NR 50435 WR 60907 TOTAL SR ER NER Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs) 47927 2637 Peak Shortage (MW) 773 1848 116 320 3057 Energy Met (MU) Hydro Gen (MU) 1170 1467 1232 521 47 4437 177 401 57 99 56 12 19 98.76 11.88 53369 43 108.00 19.84 59652 136 260 37.12 Wind Gen (MU) Solar Gen (MU)\* 48.27 2.73 63840 5.06 0.16 0.00 Souar Gen (MU)<sup>2</sup>

Energy Shortage (MU)

Maximum Demand Met During the Day (MW) (From NLDC SCADA)

Time Of Maximum Demand Met (From NLDC SCADA) 2.67 24347 2603 198970 11:00 10:29 20:20 B. Frequency Profile (%) Region All India FVI 0.049 < 49.7 0.00 49.7 - 49.8 0.66 49.8 - 49.9 14.28 < 49.9 14.94 49.9 - 50.05 77.64

Ali India	0.049	0.00	0.00	14.28	14.94	//.04	7.42	
C. Power Sup	ply Position in States							
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	0.00	Schedule	O.FTD	(3.037)	Shortage
_		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	7405	0	152.7	63.0	-0.7	136	3.00
	Harvana	7048	0	146.0	100.9	1.5	303	2.54
	Rajasthan	12172	0	255.4	50.3	-1.5	297	0.00
	Delhi	4445	0	92.6	80.2	-0.1	208	0.02
NR	UP	18980	670	402.4	151.6	1.6	520	1.67
	Uttarakhand	1999	0	41.5	26.4	-0.1	120	0.00
	HP	1594	0	31.5	12.3	-0.9	276	0.00
	J&K(UT) & Ladakh(UT)	2054	0	44.1	31.4	2.3	327	4.65
	Chandigarh	219	0	4.2	5.0	-0.7	13	0.00
	Chhattisgarh	4881	0	117.9	56.0	-0.4	192	0.00
	Gujarat	18691	0	423.9	202.0	4.6	721	0.00
	MP	12481	0	259.1	140.0	-2.7	388	0.00
WR	Maharashtra	27975	0	610.5	180.8	-2.2	713	0.00
****	Goa	701	0	14.5	14.2	-0.1	80	0.05
	DD	331	0	7.6	7.2	0.4	93	0.00
	DNH	767	116	17.9	16.8	1.1	208	2.68
	AMNSIL	752	0	16.0	10.2	-0.4	240	0.00
	Andhra Pradesh	11161	799	215.0	96.0	6.0	1463	19.84
	Telangana	14019	0	276.9	137.7	1.0	896	0.00
SR	Karnataka	14209	0	272.6	76.2	-0.6	511	0.00
SK	Karnataka Kerala	4175	0	87.1	53.7	-0.3	322	0.00
	Tamil Nadu	16859	0	370.2	241.7	-2.0	465	0.00
	Puducherry	458	0	9.8	9.6	0.1	465	0.00
		5686	0		105.1	0.1	343	0.00
	Bihar DVC		0	113.5				0.97
		3509 1635	0	76.8 33.7	-49.7 25.4	0.6 -0.2	316 215	1.71
ER	Jharkhand Odisha		0	110.3	51.5	0.7	638	0.00
EK		5310						
	West Bengal	8828	0	185.4	45.4	0.2	507	0.00
	Sikkim	110	0	1.8	1.9	-0.1	32	0.00
	Arunachal Pradesh	139	0	2.3	2.6	-0.4	12	0.00
	Assam	1550	0	27.9	22.9	-0.4	104	0.00
	Manipur	193	0	2.7	2.8	-0.1	13	0.00
NER	Meghalaya	359	0	6.5	4.4	0.0	53	0.00
	Mizoram	110	0	1.7	1.4	-0.2	7	0.00
	Nagaland	138	0	2.3	2.2	0.0	23	0.00
	Tripura	232	0	3.8	3.5	-0.3	25	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)							
	Bhutan	Nepal	Bangladesh				
Actual (MU)	10.6	-7.5	-25.8				
Day Peak (MW)	723.0	102.9	-1108.0				

E. Import/Export by Regions (in MU) - Import(-ve)/Export(-ve); OD(+)/UD(-)							
	NR	WR	SR	ER	NER	TOTAL	
Schedule(MU)	103.8	-199.4	206.9	-112.5	1.1	0.0	
Actual(MU)	91.3	-197.2	206.3	-103.8	-1.3	-4.8	
O/D/H/D(MH)	-12.5	2.2	-0.6	8.6	-2.4	-4.8	

F. Generation Outage(MW)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3099	11898	6568	1621	535	23721	42
State Sector	10324	13466	6232	3088	11	33120	58
Total	13423	25363	12800	4709	546	56841	100

	NR	WR	SR	ER	NER	All India	% Share
Coal	701	1446	657	610	13	3427	75
Lignite	19	13	43	0	0	75	2
Hydro	177	57	99	56	12	401	9
Nuclear	32	33	47	0	0	111	2
Gas, Naptha & Diesel	22	18	9	0	29	78	2
RES (Wind, Solar, Biomass & Others)	151	124	184	5	0	465	10
Total	1104	1691	1039	671	54	4558	100
Share of RES in total generation (%)	13.72	7.36	17.73	0.75	0.29	10.21	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	32,66	12.67	31.74	9.11	22.58	21.45	

11. All fillida Denialid Diversity Factor				
Based on Regional Max Demands	1.024			
Based on State Max Demands	1.061			

H All India Domand Divarcity Factor

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: 31-Mar-2022

							Date of Reporting:	31-Mar-2022
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	t/Export of ER (V				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2		PUSAULI B/B	-	4	0	0.0	0.0	0.0
3	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	1	145	251 278	0.0	0.7 4.8	-0.7 -4.8
5	765 kV	GAYA-BALIA	i	ŏ	611	0.0	12.4	-12.4
6		PUSAULI-VARANASI	1	11	80	0.0	0.7	-0.7
7	400 kV	PUSAULI -ALLAHABAD	1	45 233	64	0.0	0.2 4.4	-0.2
9	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2	0	358 558	0.0	11.0	-4.4 -11.0
10	400 kV	NAUBATPUR-BALIA	2	Ŏ	620	0.0	11.8	-11.8
11	400 kV	BIHARSHARIFF-BALIA	2	90	251	0.0	2.2	-2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	318	0	3.8	0.0 1.0	3.8
13	400 kV 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	1	69	155 146	0.0	2.5	-1.0 -2.5
15	132 kV	NAGAR UNTARI-RIHAND	i	Ŏ	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.4	-0.4
18	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0 4.2	0.0 52.1	0.0 -47.9
Impor	t/Export of ER (V	Vith WR)				7.2	0211	-47.2
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	742	0	14.8	0.0	14.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1022	46	14.0	0.0	14.0
3	765 kV	JHARSUGUDA-DURG	2	114	246	0.0	1.8	-1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	299	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	2	188	58	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	2.0	-2.0
7		BUDHIPADAR-KORBA	2	205	0	2.8	0.0	2.8
					ER-WR	34.0	8.0	26.0
	t/Export of ER (V		2	^	710	0.0	16.2	1/.2
2		JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2	0	710 2477	0.0	46.6	-16.2 -46.6
3		ANGUL-SRIKAKULAM	2	0	3018	0.0	56.7	-56.7
4	400 kV	TALCHER-I/C	2	421	646	0.0	1.4	-1.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
Impo	t/Export of ER (V	Vith NED)			ER-SR	0.0	119.5	-119.5
1mpor		BINAGURI-BONGAIGAON	2	106	190	0.1	2.4	-2.3
2		ALIPURDUAR-BONGAIGAON	2	89	346	0.0	4.1	-2.3 -4.1
3		ALIPURDUAR-SALAKATI	2	11	54	0.0	0.7	-0.7
Terr					ER-NER	0.1	7.2	-7.1
1mpoi	t/Export of NER HVDC	(With NR) BISWANATH CHARIALI-AGRA	2	0	353	0.0	8.5	-8.5
ᄖ	HYDC	J. J	<u> </u>		NER-NR	0.0	8.5	-8.5 -8.5
	rt/Export of WR (							
1		CHAMPA-KURUKSHETRA	2	0	488	0.0	1.8	-1.8
3	HVDC HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH		445	0 251	12.2 0.0	0.0 6.2	12.2 -6.2
4		GWALIOR-AGRA	2	0	1388	0.0	18.5	-6.2 -18.5
5	765 kV	GWALIOR-PHAGI	2	47	1182	0.0	17.2	-17.2
6	765 kV	JABALPUR-ORAI	2	0	649	0.0	21.5	-21.5
8		GWALIOR-ORAI SATNA-ORAI	1	717	0 829	11.9	0.0 17.6	11.9
	703 KV	BANASKANTHA-CHITORGARH	2			0.0 27.2	0.0	-17.6
9	765 kV			1587	0		0.0	27.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2697	0.0	49.9	-49.9
10 11	765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI		0 370	2697 0	0.0 6.8	49.9 0.0	-49.9 6.8
10 11 12	765 kV 400 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA -BHINMAL		0 370 594	2697 0 0	0.0 6.8 9.3	49.9 0.0 0.0	-49.9 6.8 9.3
10 11	765 kV 400 kV 400 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND		0 370 594 974	2697 0 0 0	0.0 6.8 9.3 22.0	49.9 0.0	-49.9 6.8 9.3 22.0
10 11 12 13	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	2 1 1 1	0 370 594 974 471	2697 0 0 0 48	0.0 6.8 9.3 22.0 3.9 0.6	49.9 0.0 0.0 0.0 0.1 0.0	-49.9 6.8 9.3 22.0 3.8 0.6
10 11 12 13 14 15 16	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	2 1 1 1	0 370 594 974 471 100	2697 0 0 48 0 30	0.0 6.8 9.3 22.0 3.9 0.6 0.0	49.9 0.0 0.0 0.0 0.1 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0
10 11 12 13 14 15 16 17	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA	2 1 1 1 2 1 1 1	0 370 594 974 471 100 0	2697 0 0 0 48 0 30	0.0 6.8 9.3 22.0 3.9 0.6 0.0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0
10 11 12 13 14 15 16 17 18	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPÜR BHANPÜRA-RANPÜR BHANPÜRA-MORAK MEHGAON-AÜRAIYA MALANPÜR-AURAIYA	2 1 1 1	0 370 594 974 471 100 0 127 85	2697 0 0 0 48 0 30 0	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0
10 11 12 13 14 15 16 17	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA	2 1 1 1 2 1 1 1	0 370 594 974 471 100 0	2697 0 0 0 48 0 30 0 0 0	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 0.0
10 11 12 13 14 15 16 17 18 19 20	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 2 2 1 1 1 1 1	0 370 594 974 471 100 0 127 85	2697 0 0 0 48 0 30 0	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0
10 11 12 13 14 15 16 17 18 19 20	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 2 2 1 1 1 1 1	0 370 594 974 471 100 0 127 85 0	2697 0 0 0 48 0 30 0 0 0 WR-NR	0.0 6.8 9.3 22.0 0.6 0.0 1.0 1.8 0.0 96.5	49.9 0.0 0.0 0.1 0.1 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 0.0 -36.3
10 11 12 13 14 15 16 17 18 19 20	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL-VARANASI ZERDA-ANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WISH SHADRAWATI B/B BHADRAWATI B/B	2 1 1 1 2 2 1 1 1 1 1	0 370 594 974 471 100 0 127 85 0	2697 0 0 0 48 0 30 0 0 0 WR-NR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 0.0 -36.3
10 11 12 13 14 15 16 17 18 19 20	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/EXPORT of WR ( HVDC HVDC	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 2 2 1 1 1 1 1	0 370 594 974 471 100 0 127 85 0	2697 0 0 0 48 0 30 0 0 0 WR-NR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5	49.9 0.0 0.0 0.1 0.1 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 0.0 -36.3
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 1765 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALIPPUR WIth SR) BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD	2 1 1 1 2 2 1 1 1 1 1	0 370 594 974 471 100 0 127 85 0 0	2697 0 0 0 48 0 30 0 0 0 WR-NR 1019 4015 2070 3342	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 0.0 36.3 -16.8 -66.5 -22.9
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV HVDC FKSport of WR ( HVDC 765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-ROBAK MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 1 2 1 1 2 2 1 1 2 2 2 2 1 1 1 2	0 370 594 974 471 100 0 127 85 0 0 0	2697 0 0 0 48 0 0 30 0 0 WR-NR 1019 4015 20770 33442 0	0.0 6.8 9.3 2.2 0.3 9.0 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -46.5 -22.9 -51.1 20.0
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR ( HVDC HVDC HVDC 765 kV 400 kV 220 kV 240 kV 250 kV 260 kV 2	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-BURATYA GWALIOR-SAWAI MADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KHUDGI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 1 2 1 1 2 2 1 1 2 2 2 2 1 1 1 2	0 370 594 974 471 100 0 127 85 0 0	2697 0 0 0 48 0 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 0.6 0.0 1.0 1.8 0.0 0.0 36.3 -16.8 -66.5 -22.9 -\$1.1 20.0
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV HVDC FKSport of WR ( HVDC 765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-ROBAK MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 1 2 1 1 2 2 1 1 2 2 2 2 1 1 1 2	0 370 594 974 471 100 0 127 85 0 0 0	2697 0 0 0 48 0 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134	0.0 6.8 9.3 2.2 0.3 9.0 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -46.5 -22.9 -51.1 20.0
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 142 kV 175 kV 175 kV 400 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-ROBAK MEHGAON-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WII SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-ANBEWADI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 1 2 1 1 2 2 1 1 2 2 2 2 1 1 1 2	0 370 594 974 471 100 0 127 85 0 0 0 126 0 126 0	2697 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134.7
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 142 kV 175 kV 175 kV 400 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 1 2 1 1 2 2 1 1 2 2 2 2 1 1 1 2	0 370 594 974 471 100 0 127 85 0 0 0 126 0 0 126 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 48 0 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -66.5 -22.9 -51.1 20.0 0.0 0.0 2.6 -134.7 +ve/Export(-ve)
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 155 kV 400 kV 220 kV 122 kV 132 kV 140 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA WISH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2 2 1	0 370 594 974 471 100 0 127 85 0 0 0 128 0 0 126 0 0 0 127 85 0 0 0 CHANGES	2697 0 0 0 48 0 48 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 36.3 -16.8 -66.5 -22.9 51.1 20.0 0.0 0.0 -34.3 -44.9
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 142 kV 175 kV 175 kV 400 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUNGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 2 1 1 1 1 1 1 2 1 1 2 2 1 1 1 1	0 370 370 594 974 471 100 0 127 85 0 0 128 0 126 0 0 126 0 0 127 0 0 127 0 0 128 Name	2697 0 0 0 48 0 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -66.5 -22.9 -51.1 20.0 0.0 0.0 2.6 -134.7 +ve/Export(-ve)
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 155 kV 400 kV 220 kV 122 kV 132 kV 140 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA WISH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2 2 1	0 370 594 974 471 100 0 127 85 0 0 128 0 0 126 0 0 126 0 0 126 0 0 126 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 48 0 48 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 36.3 -16.8 -66.5 -22.9 51.1 20.0 0.0 0.0 -34.3 -44.9
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 155 kV 400 kV 220 kV 122 kV 132 kV 140 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALIPPUR WISH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2	0 370 594 1974 471 100 0 127 85 0 0 128 0 10 120 0 120 0 120 0 126 0 0 126 0 0 126 0 0 126 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 0 0 0 WR-NR 1019 4015 2070 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.	49.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 36.3 -16.8 -66.5 -22.9 51.1 20.0 0.0 0.0 1.34.7 +ve)/Export(-ve) Energy Exchange
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 155 kV 400 kV 220 kV 122 kV 132 kV 140 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WISH SRI BHADRAWATI B/B BHADRAWATI B/B SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN REGION  REGION	2 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1	0 370 594 471 100 0 127 85 0 0 128 0 128 0 0 126 0 0 126 0 126 0 1345 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from *180MW) 178 IL 3,24 (4 400 W)	2697 0 0 0 48 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134,7 +ve)/Export(-ve) Energy Exchange (MII) 3.6
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 155 kV 400 kV 220 kV 122 kV 132 kV 140 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALIPPUR WISH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2	0 370 594 1974 471 100 0 127 85 0 0 128 0 0 126 0 126 0 0 126 0 0 126 0 0 126 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 0 0 0 WR-NR 1019 4015 2070 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.	49.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 36.3 -16.8 -66.5 -22.9 51.1 20.0 0.0 0.0 1.34.7 +ve)/Export(-ve) Energy Exchange
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 35 kV 400 kV 220 kV 220 kV 25 kV 400 kV 220 kV 220 kV 220 kV 35 kV 400 kV 220 kV 220 kV 220 kV 36 kV 400 kV 220 kV 220 kV 220 kV 220 kV 36 k	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN REGION  ER	2	0 370 594 1974 1974 100 0 127 127 85 0 0 128 0 100 129 120 0 120 0 120 0 120 0 120 0 0 126 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 0 0 0 0 WR-NR 10019 4015 2070 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134,7 +ve)/Export(-ve) Energy Exchange (MII) 3.6
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 155 kV 400 kV 220 kV 122 kV 132 kV 140 kV 220 kV 22	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WISH SRI BHADRAWATI B/B BHADRAWATI B/B SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN REGION  REGION	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2 2 1	0 370 370 594 471 100 0 127 85 0 0 128 0 0 128 0 0 126 0 0 126 0 0 1345 0 0 0 1345 0 0 0 CHANGES Name UALIPURDUAR AR RECEIPT (from **180MW) RI i.e. BINAGURI RIEP (6*170MW) PARA I&2 (& 220kV	2697 0 0 0 48 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134,7 +ve)/Export(-ve) Energy Exchange (MII) 3.6
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 35 kV 400 kV 220 kV 220 kV 25 kV 400 kV 220 kV 220 kV 220 kV 35 kV 400 kV 220 kV 220 kV 220 kV 36 kV 400 kV 220 kV 220 kV 220 kV 220 kV 36 k	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN REGION  ER	2	0 370 370 594 471 100 0 127 85 0 0 128 0 0 128 0 0 126 0 0 126 0 0 1345 0 0 0 1345 0 0 0 CHANGES Name UALIPURDUAR AR RECEIPT (from **180MW) RI i.e. BINAGURI RIEP (6*170MW) PARA I&2 (& 220kV	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 0 0 0 0 WR-NR 10019 4015 2070 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -66.5 -22.9 51.1 20.0 0.0 0.0 -34.7 +ve)/Export(-ve) Energy Exchange (MII) 3.6
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 35 kV 400 kV 220 kV 220 kV 25 kV 400 kV 220 kV 220 kV 220 kV 35 kV 400 kV 220 kV 220 kV 220 kV 36 kV 400 kV 220 kV 220 kV 220 kV 220 kV 36 k	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN REGION  ER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2 2 1	0 370 370 594 471 100 0 127 85 0 0 128 0 0 128 0 0 126 0 0 126 0 0 1345 0 0 0 1446 0 0 1456 0 1456 0 1546 0 1646 0 1746 0 1847 0 0 0 1848 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 0 0 0 0 WR-NR 10019 4015 2070 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3 -16.8 -66.5 -22.9 51.1 20.0 0.0 0.0 -34.7 +ve)/Export(-ve) Energy Exchange (MII) 3.6
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 35 kV 400 kV 220 kV 220 kV 25 kV 400 kV 220 kV 220 kV 220 kV 35 kV 400 kV 220 kV 220 kV 220 kV 36 kV 400 kV 220 kV 220 kV 220 kV 220 kV 36 k	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA BHADRAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN REGION ER ER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 4 400KV MANGDECHH 1,2&3 i.e. ALIPURBU MANGWETALABASE MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TALJ	0 370 370 594 471 100 0 127 85 0 0 128 0 0 128 0 0 126 0 0 126 0 0 1345 0 0 0 1446 0 0 1456 0 1456 0 1546 0 1646 0 1746 0 1847 0 0 0 1848 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134.7 -+ve/Export(-ve) Energy Exchange (MII) 3.6 6.3
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 400 kV 220 kV 220 kV 240 kV 250 k	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MIEHGAON-AURAIYA MALANPURA-MORAK MIEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI IN REGION ER ER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 370 370 594 1974 1974 100 0 127 127 85 0 0 126 0 126 0 126 0 126 0 0 126 0 0 126 0 0 126 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 WR-SR WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 20.0 0.0 22.6 22.6  222.6  Min (MW)	49.9 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -34.7 +ve/PExport(-ve) -134.7 +ve/Pexport(-ve) -134.7 -1.1 -1.1 -1.1
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 400 kV 220 kV 220 kV 240 kV 250 k	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA BHADRAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN REGION ER ER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 4 400KV MANGDECHH 1,2&3 i.e. ALIPURBU MANGWETALABASE MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TALJ	0 370 370 594 1974 1974 100 0 127 127 85 0 0 126 0 126 0 126 0 126 0 0 126 0 0 126 0 0 126 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134.7 -+ve)/Export(-ve) Energy Exchange (MII) 3.6 6.3
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 400 kV 220 kV 220 kV 240 kV 250 k	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA BHADAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN REGION ER ER  ER  NER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 370 370 594 974 471 100 0 127 127 85 0 0 128 0 100 127 126 0 0 126 0 0 126 0 0 126 0 0 127 126 0 0 127 127 127 127 127 127 127 127 127 127	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134.7 -+ve)/Export(-ve) Energy Exchange (MII) 3.6 6.3  1.1 0.1
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 400 kV 220 kV 220 kV 240 kV 250 k	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MIEHGAON-AURAIYA MALANPURA-MORAK MIEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI IN REGION ER ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 1	0 370 370 594 974 471 100 0 127 127 85 0 0 128 0 100 127 126 0 0 126 0 0 126 0 0 126 0 0 127 126 0 0 127 127 127 127 127 127 127 127 127 127	2697 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 WR-SR WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 20.0 0.0 22.6 22.6  222.6  Min (MW)	49.9 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -34.7 +ve/PExport(-ve) -134.7 +ve/Pexport(-ve) -134.7 -1.1 -1.1 -1.1
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA BHADAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN REGION ER ER  ER  NER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1	0 370 370 594 471 974 471 100 0 127 85 0 0 128 0 0 129 0 120 0 120 0 120 0 0 126 0 0 0 126 0 0 0 127 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134.7 -+ve)/Export(-ve) Energy Exchange (MII) 3.6 6.3  1.1 0.1
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kVDC 400 kV 220 kV 122 kV 132 kV 147 kVDC 400 kV 220 kV 400 kV 220 kV 220 kV 240 kV 250 k	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA BHADAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN REGION ER ER  ER  NER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 1	0 370 370 594 471 974 471 100 0 127 85 0 0 128 0 0 129 0 120 0 120 0 120 0 0 126 0 0 0 126 0 0 0 127 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 0 134 WR-SR	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 6.8 9.3 22.0 3.8 0.6 0.0 1.0 1.8 0.0 -36.3  -16.8 -66.5 -22.9 -51.1 20.0 0.0 2.6 -134.7 -+ve)/Export(-ve) Energy Exchange (MII) 3.6 6.3  1.1 0.1
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-KANKROLI 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-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN REGION ER ER  ER  ER  NER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1	0 370 370 594 471 974 471 100 0 127 85 0 0 128 0 0 129 0 120 0 120 0 120 0 0 126 0 0 0 126 0 0 0 127 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 0 0 0 0 WR-NR 10019 4015 2070 0 0 134 WR-SR  Max (MW) 272 383 83 9 18	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 20.0 0.0 22.6 22.6  Min (MW)  96  189	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -34.7 -+ve/Export(-ve)
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-KANKROLI 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-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN REGION ER ER  ER  ER  NER	2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2	0 370 370 594 471 974 471 100 0 127 85 0 0 128 0 0 129 0 120 0 120 0 120 0 0 126 0 0 0 126 0 0 0 127 0 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 0 0 48 0 0 0 0 0 0 WR-NR 0 0 0 0 WR-NR 10019 4015 2070 0 0 134 WR-SR  Max (MW) 272 383 83 9 18	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 20.0 0.0 22.6 22.6  Min (MW)  96  189	49.9 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -2.6 -134.7 +ve)/Export(-ve) Energy Exchange (MII) -3.6 -3.6 -3.1 -1.1 -3.6 -3.3 -1.5 -4.2
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA SWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI BB BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN Region ER ER  ER  NER  NER  NER	2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 2	0   370   594   471   100   0   127   100   0   127   100   0   127   100   0   127   100   100   127   100   100   100   126   100   1345   0   0   1345   0   0   1345   0   0   100	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 3442 WR-SR  Max (MW) 272 383 83 9 18	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -34.7 -+ve/Export(-ve)
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WIRLSH SRICH SHORE SAWAI SHORE SAWAI SHORE WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  NR REGION ER  ER  ER  ER  ER  ER  ER  ER  ER  ER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1	0 370 370 594 1974 1974 1974 100 0 127 185 0 0 126 0 127 0 127 0 128 0 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 126 0 0 0 126 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 WR-NR 0 0 0 WR-NR 1019 4015 2070 0 0 134 WR-SR  Max (MW) 272 383 83 9 18 -74	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 20.0 0.0 22.6 22.6 22.6	49.9  0.0  0.0  0.0  0.0  0.1  0.0  0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -34.7 -42 -1.8 -1.8 -1.8 -1.8 -1.1 -1.1 -1.1 -1.1
10 11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA SWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI BB BHADRAWATI BB RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-ANBEWADI XELDEM-AMBEWADI IN Region ER ER  ER  NER  NER  NER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1	0   370   594   471   100   0   127   100   0   127   100   0   127   100   0   127   100   100   127   100   100   100   126   100   1345   0   0   1345   0   0   1345   0   0   100	2697 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 3442 WR-SR  Max (MW) 272 383 83 9 18	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -66.5 -22.9 -51.1 -20.0 -0.0 -2.6 -134.7 +ve)/Export(-ve) Energy Exchange (MII) -3.6 -3.6 -3.1 -1.1 -3.6 -3.3 -1.5 -4.2
10   11   12   13   14   15   16   17   18   19   20     1   12   2   3   3   4   5   6   7   8   8	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 140 kV 765 kV 765 kV 220 kV 220 kV 132 kV 140 kV 150 kV 15	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPIR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-BHANPUR BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN REGION ER	2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2 2 1	0 370 370 594 974 471 100 0 127 127 85 0 0 128 0 0 126 0 126 0 0 126 0 0 126 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 48 0 0 0 48 0 0 0 WR-NR 1019 4015 2070 3342 0 0 134 WR-SR  Max (MW) 272 383 83 9 18 -74 356 -179	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	49.9  0.0  0.0  0.0  0.1  0.0  0.0  0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -46.5 -22.9 -51.1 -20.0 -0.0 -2.6 -134.7 +ve)/Export(-ve) Energy Exchange (MII) -6.3 -1.5 -1.5 -1.8 -1.8 -1.8 -1.8 -22.2
10   11   12   13   14   15   16   17   18   19   20     1   12   2   3   3   4   5   6   7   8   8	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 152 kV 152 kV 152 kV 153 kV 155 kV 400 kV 220 kV 250 kV 155 kV 400 kV 250 kV 25	VINDHYACHAL-VARANASI ZERDA-SANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WIRLSH SRICH SHORE SAWAI SHORE SAWAI SHORE WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  NR REGION ER  ER  ER  ER  ER  ER  ER  ER  ER  ER	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1	0 370 370 594 974 471 100 0 127 127 85 0 0 128 0 0 126 0 126 0 0 126 0 0 126 0 0 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2697 0 0 0 0 0 0 48 0 0 0 0 WR-NR 0 0 0 WR-NR 1019 4015 2070 0 0 134 WR-SR  Max (MW) 272 383 83 9 18 -74	0.0 6.8 9.3 22.0 3.9 0.6 0.0 1.0 1.0 1.0 1.8 0.0 96.5 0.0 0.0 0.0 0.0 20.0 0.0 22.6 22.6 22.6	49.9  0.0  0.0  0.0  0.0  0.1  0.0  0.0	-49.9 -6.8 -9.3 -22.0 -3.8 -0.6 -0.0 -1.0 -1.8 -0.0 -36.3 -16.8 -26.5 -22.9 -51.1 -20.0 -0.0 -36.3 -16.8 -66.5 -3.2 -1.1 -3.7 -4.2 -1.8