ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 24-Jul-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	70144	53268	41060	27555	3178	195205
Peak Shortage (MW)	230	0	0	571	14	815
Energy Met (MU)	1585	1218	978	601	62	4444
Hydro Gen (MU)	381	65	71	141	31	689
Wind Gen (MU)	21	103	285	-	-	410
Solar Gen (MU)*	118.26	37.98	76.87	2.59	0.97	237
Energy Shortage (MU)	0.94	0.00	0.00	2.78	0.49	4.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74361	54211	45740	28503	3212	196625
Time Of Maximum Demand Met	22:44	19:48	11:00	22:46	20:15	20:59

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	0.024	0.00	0.20	2 24	2 52	76.24	20.22

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
	Punjab	12081	0	265.8	152.2	-1.0	279	0.00
	Haryana	10693	0	225.2	173.6	0.7	290	0.00
	Rajasthan	12885	0	277.9	100.2	-3.8	325	0.00
	Delhi	6792	0	136.2	125.1	-1.5	86	0.00
NR	UP	27609	0	548.9	284.6	-1.3	380	0.00
	Uttarakhand	2035	0	45.0	25.2	0.1	167	0.00
	HP	1505	13	26.6	-2.5	0.3	226	0.19
	J&K(UT) & Ladakh(UT)	2402	50	49.8	22.6	1.0	267	0.75
	Chandigarh	325	0	6.2	6.5	-0.3	35	0.00
	Railways_NR ISTS	161	0	3.3	3.5	-0.2	6	0.00
	Chhattisgarh	4574	0	101.2	53.5	-2.2	191	0.00
	Gujarat	14971	0	339.3	161.7	0.0	693	0.00
	MP	11092	0	241.5	133.3	-3.7	254	0.00
WR	Maharashtra	20704	0	463.5	154.8	-1.9	784	0.00
	Goa	541	0	10.8	10.8	-0.4	50	0.00
	DNHDDPDCL	1249	0	29.0	28.9	0.1	46	0.00
	AMNSIL	888	0	20.2	10.0	0.5	294	0.00
	BALCO	520	0	12.4	12.5	-0.1	31	0.00
	Andhra Pradesh	8984	0	191.3	22.9	-2.2	743	0.00
	Telangana	9952	0	203.4	88.1	-1.0	453	0.00
\mathbf{SR}	Karnataka	9074	0	170.5	13.9	-3.5	546	0.00
	Kerala	3167	0	67.1	52.5	0.3	261	0.00
	Tamil Nadu	14980	0	336.8	133.9	-11.7	292	0.00
	Puducherry	410	0	9.2	9.1	-0.6	35	0.00
	Bihar	7143	339	152.4	141.1	0.3	327	2.05
	DVC	3370	0	74.6	-30.9	0.2	312	0.00
	Jharkhand	1586	114	36.1	33.2	0.3	151	0.73
$\mathbf{E}\mathbf{R}$	Odisha	6682	0	131.0	45.9	-2.1	373	0.00
	West Bengal	9840	0	206.4	89.4	-1.2	317	0.00
	Sikkim	54	0	0.7	0.8	-0.1	9	0.00
	Railways_ER ISTS	14	0	0.2	0.2	0.0	6	0.00
	Arunachal Pradesh	149	0	2.4	2.5	-0.3	42	0.00
	Assam	2145	0	41.0	33.6	-0.1	154	0.00
	Manipur	188	0	2.7	2.7	-0.1	28	0.00
NER	Meghalaya	312	0	5.3	0.6	-0.1	167	0.49
	Mizoram	98	0	1.6	1.6	-0.4	4	0.00
	Nagaland	151	0	2.6	2.5	-0.1	18	0.00
	Tripura	323	0	6.0	5.5	0.3	61	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.8	6.2	-25.3	-17.9
Day Peak (MW)	1802.5	313.0	-1088.0	-768.7

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

E. Import Export by Regions (in Me) - Import (140)	Export(-ve), OD(), CD(-)				
	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	345.9	-247.7	-17.5	-74.7	-6.0	0.0
Actual(MU)	322.6	-233.2	-35.6	-55.7	-5.9	-7.8
O/D/II/D(MII)	22.2	14.5	_10 1	10.0	0.1	7 9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2946	11546	6518	2360	271	23641	41
State Sector	6645	15201	9103	3480	175	34603	59
Total	9590	26746	15621	5840	446	58244	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	723	1279	496	579	14	3090	65
Lignite	27	10	50	0	0	87	2
Hydro	381	65	71	141	31	689	14
Nuclear	29	52	60	0	0	141	3
Gas, Naptha & Diesel	32	14	7	0	29	81	2
RES (Wind, Solar, Biomass & Others)	146	142	395	4	1	689	14
Total	1338	1561	1079	725	75	4778	100
(a) (b) (c) (d) (d) (d)							1
Share of RES in total generation (%)	10.95	9.11	36.65	0.60	1.29	14.43	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.57	16.60	48.73	20.11	43.22	31.80	

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.047
Based on State Max Demands	1.066

I. All India Peak	Demand a	nd shortag	ge at Solar a	and N	Non-Solar Hour
	,		(3 FTTT)		

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	191622	12:40	99
Non-Solar hr	196625	20:59	815

 $Diversity\ factor = Sum\ of\ regional\ or\ state\ maximum\ demands\ /\ All\ India\ maximum\ demand$

^{**}Note: All generation MU figures are gross
***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

 $[*]Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 24-Jul-2023

							Date of Reporting:	24-Jul-2023
Sl No	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	Vith NR)						
1	HVDC HVDC	ALIPURDUAR-AGRA	2	0	1001	0.0	22.9 2.7	-22.9
3	765 kV	PUSAULI B/B GAYA-VARANASI	2	649	108 356	0.0 2.2	0.0	-2.7 2.2
4	765 kV	SASARAM-FATEHPUR	1	176	249	0.0	1.2	-1.2
6		GAYA-BALIA PUSAULI-VARANASI	1	0	710 116	0.0	10.4 1.6	-10.4 -1.6
7	400 kV	PUSAULI -ALLAHABAD	1	1	93	0.0	1.1	-1.1
9	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	812 433	0.0	13.0 6.2	-13.0 -6.2
10	400 kV	NAUBATPUR-BALIA	2	0	431	0.0	5.8	-5.8
11 12	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	90	266 515	0.0	2.9 7.8	-2.9 -7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	239	218	0.0	0.2	-0.2
14 15	220 kV 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	45	123 0	0.0	0.9	-0.9 0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.9	0.0	0.9
17 18	132 kV 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	54 0	0.0	0.0	0.0
10	132 K (MARIMANA-CHA DACEI	•	v	ER-NR	3.1	76.5	-73.5
	t/Export of ER (\							
2	765 kV 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	2	1186 1608	394 0	10.5 28.2	0.0	10.5 28.2
3	765 kV	JHARSUGUDA-DURG	2	250	359	0.3	0.0	0.3
5	400 kV 400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	207 454	271 17	0.0 4.8	0.8	-0.8 4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	111	0 ER-WR	1.1 44.9	0.0 2.6	1.1
Impor	t/Export of ER (V	Vith SR)			ER-WK	44.9	2.0	42.3
1	HVDC	JEYPORE-GAZUWAKA B/B	2	391	0	5.7	0.0	5.7
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1144 2185	0.0	27.8 27.1	-27.8 -27.1
4	400 kV	TALCHER-I/C	2	249	404	0.3	0.0	0.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0 5.7	0.0 54.8	0.0
Impor	t/Export of ER (V	With NER)			EK-SK	5.7	34.8	-49.1
1	400 kV	BINAGURI-BONGAIGAON	2	7	247	0.0	3.0	-3.0
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	181 11	189 68	0.0	0.7 0.7	-0.7 -0.7
3	220 K V	ALIFURDUAR-SALARATI	2	11	ER-NER	0.0	4.4	-4.4
Impor	t/Export of NER							
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	11.9	-11.9
Impor	t/Export of WR (With ND)			NER-NR	0.0	11.9	-11.9
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5046	0.0	81.8	-81.8
3	HVDC HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	0	486 0	0.0	4.4 0.0	-4.4 0.0
4	765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	2670	0.0	39.7	-39.7
5	765 kV	GWALIOR-PHAGI	2	173	1875	0.1	23.8	-23.6
7	765 kV 765 kV	JABALPUR-ORAI GWALIOR-ORAI	2	0 887	1036 0	0.0 15.0	31.1 0.0	-31.1 15.0
8	765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	1	0	993	0.0	18.9 7.9	-18.9
9 10	765 kV	VINDHYACHAL-VARANASI	2	1146	1224	4.9	7.9	-3.0
10	705 KV	VINDH (ACHAL-VAKANAS)	2	0	3478	0.0	70.4	-70.4
11	765 kV 400 kV	ZERDA-KANKROLI	1	0 174	3478 211	0.0	1.5	-70.4 -0.6
11 12 13 14	400 kV 400 kV 400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 1	174 515 956 198	211 311 0 774	0.9 3.6 20.5 0.3	1.5 2.0 0.0 7.6	-0.6 1.6 20.5 -7.2
11 12 13 14 15	400 kV 400 kV 400 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	1 1 1	174 515 956 198	211 311 0 774 0	0.9 3.6 20.5 0.3 0.0	1.5 2.0 0.0 7.6 0.0	-0.6 1.6 20.5 -7.2 0.0
11 12 13 14 15 16 17	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 1 1 2 2 1 1 1	174 515 956 198 0 0	211 311 0 774 0 30 0	0.9 3.6 20.5 0.3 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1
11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 1 2 1 1	174 515 956 198 0	211 311 0 7774 0 30 0	0.9 3.6 20.5 0.3 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1	-0.6 1.6 20.5 -7.2 0.0 -2.1
11 12 13 14 15 16 17	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 1 1 2 2 1 1 1 1	174 515 956 198 0 0	211 311 0 774 0 30 0 0 0	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0
11 12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 2 1 1 1 1 1	174 515 956 198 0 0 0	211 311 0 7774 0 30 0	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0
11 12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 2 1 1 1 1 1	174 515 956 198 0 0 0	211 311 0 774 0 30 0 0 0	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0
11 12 13 14 15 16 17 18 19 20 Impor 1 2	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC	ZERDA-KANKROLI ZERDA -BHHNMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR	1 1 1 2 1 1 1 1 1 1 2	174 515 956 198 0 0 0 0 0 0 993	211 311 0 774 0 30 0 0 0 0 WR-NR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 2.1 0.0 1.5 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8
11 12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (ZERDA-KANKROLI 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 2	174 515 956 198 0 0 0 0 0 0 0	211 311 0 774 0 330 0 0 0 WR-NR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 291.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 -2.45.8
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV	ZERDA-KANKROLI ZERDA -BHHNMAL YINDHYACHAL -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	1 1 1 2 1 1 1 1 1 1 1 2 2	174 515 956 198 0 0 0 0 0 0 0 0 2513 572 1759	211 311 0 774 0 30 0 0 0 0 0 WR-NR 0 1500 329 1786 0	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 1.5.3 0.1 10.9 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 2210 kV 132 kV 132 kV 132 kV 135 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR 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	1 1 1 2 1 1 1 1 1 1 2	174 515 956 198 0 0 0 0 0 0 0 2513 572	211 311 0 774 0 30 0 0 0 0 0 WR-NR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 2210 kV 132 kV 132 kV 132 kV 135 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SR) BHANRWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	1 1 1 2 1 1 1 1 1 1 2 2	174 515 956 198 0 0 0 0 0 0 0 0 2513 572 1759 0	211 311 0 774 0 30 0 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 0 93	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 0.0
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHHNMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	174 515 9256 198 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0	211 311 0 774 0 330 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45,2 15.8 0.0 30.7 1.3 31.7 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 0.0 1.6 54.7
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHHNMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	1 1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1	174 515 9256 198 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0	211 311 0 774 0 30 0 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 0 93	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHHNMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 9256 198 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0	211 311 0 774 0 30 0 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 0 93	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 0.0 0.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WIth SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 2 2 2 2 2	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e.	211 311 0 774 0 370 0 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW)	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -2.45.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU)
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI	1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 2 2 2	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e.	211 311 0 774 0 330 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 0.0 15.3 Import(-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHHNMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADBAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIP/ HEP 4*180MW) 400kV TALA-BINAGUR	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU	211 311 0 774 0 370 0 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW)	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WIth SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI	211 311 0 774 0 370 0 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW)	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 -2.45.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU)
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 (& 400kV) I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV	211 311 0 774 0 370 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR Max (MW) 646	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHHNMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADBAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211 311 0 774 0 370 0 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW)	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211 311 0 774 0 370 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR Max (MW) 646	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW)	211 311 0 774 0 370 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR Max (MW) 646	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW)	211 311 0 774 0 370 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR Max (MW) 646	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW)	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	211 311 0 774 0 370 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 WR-SR Max (MW) 646	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW)	1.5 2.0 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -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 IN Region ER ER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	211 311 0 774 0 370 0 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 WR-SR WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -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 IN Region ER ER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	211 311 0 774 0 370 0 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 WR-SR WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 926 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. P (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI tep 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	211 311 0 774 0 30 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 WR-SR WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 14/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 0 0 172513 572 1759 1759 1759 1759 1759 1759 1759 1759	211 311 0 774 0 30 30 0 0 0 WR-NR 0 1500 329 1786 0 0 0 WR-SR WR-SR	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -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 IN Region ER ER NER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 0 0 172513 572 1759 1759 1759 1759 1759 1759 1759 1759	211 311 0 774 0 370 0 370 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -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 IN Region ER ER NER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 & 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV I.e. BIRPARA RECEIPT 84MW) KATI GIA	211 311 0 774 0 370 0 370 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -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 IN Region ER ER NER NER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGBECHU I 1,2,4 & 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV I.e. BIRPARA RECEIPT 84MW) KATI GIA	211 311 0 774 0 370 0 370 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -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 IN Region ER ER NER NER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGECHU I 1,2,4 & 400kV I) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	211 311 0 774 0 370 0 370 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER NER NER NER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGECHU I 1,2,4 & 400kV I) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	211 311 0 774 0 370 0 370 0 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59 -75	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47 -47	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14 0.00 7.30
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER ER ER ER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211 311 0 774 0 30 0 774 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59 -75	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21 0 0 178	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47 -47	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14 0.00 7.30
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SWAH MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER NER NER NER NER ER ER ER	1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211 311 0 774 0 370 0 370 0 0 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59 -75	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47 -47 0 304	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14 0.00 7.30
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER NER NER ER ER ER ER	1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211 311 0 774 0 30 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59 -75 0 388 -934	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21 0 0 178 -839	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47 -47 0 304 -918	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14 0.00 7.30 -22.03
11 12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL YINDHYACHAL -RIHAND RAPP-SHUJALPUR 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER ER ER ER ER	1	174 515 956 198 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2513 572 1759 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	211 311 0 774 0 30 0 774 0 30 0 0 0 0 WR-NR 0 1500 329 1786 0 0 0 93 WR-SR Max (MW) 646 1045 190 -29 -59 -75	0.9 3.6 20.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 45.2 15.8 0.0 30.7 1.3 31.7 0.0 0.0 1.6 81.0 Min (MW) 569 0 106 -17 -21 0 0 178	1.5 2.0 0.0 7.6 0.0 7.6 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.1 10.9 0.0 0.0 0.0 26.3 Import(Avg (MW) 593 997 138 -24 -47 -47 0 304	-0.6 1.6 20.5 -7.2 0.0 -2.1 0.0 0.0 0.0 0.0 0.0 0.0 -245.8 15.8 -15.3 30.5 -9.6 31.7 0.0 0.0 1.6 54.7 +ve)/Export(-ve) Energy Exchange (MU) 14.23 23.93 3.32 -0.57 -1.12 -1.14 0.00 7.30