

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंटोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 4<sup>th</sup> January 2023

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
- 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 03.01.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03- जनवरी -2023 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 3<sup>rd</sup> January 2023, is available at the NLDC website.

धन्यवाद.

## ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड



	राष्ट्	ग्रेय भार प्रेषण केंद्र,	नई दिल्ली					GRID-INDI
Report for pro	evious day				Dat	e of Reporting:	04-Ja	an-2023
A. Power Sup	ply Position at All India and Regional level	ND.	WR	SR	ER	NER	TOTAL	7
Demand Met d	luring Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	NR 56721	57372	43710	19898	2678	180379	-
Peak Shortage		1281	0	0	174	0	1455	-
Energy Met (M		1187	1415	1053	418	47	4121	1
Hydro Gen (M		115	40	92	26	10	283	1
Wind Gen (MU		17	101	53	•	-	170	
Solar Gen (MU		102.03	50.12	107.98	1.65	0.42	262	_
Energy Shortag	ge (MU) nand Met During the Day (MW) (From NLDC SCADA)	28.45	0.00	0.00	2.56	0.00	31.01	4
	num Demand Met (From NLDC SCADA)	59179 12:17	73004 15:51	55266 10:18	21392 19:06	2749 17:33	205253 10:42	Ⅎ
B. Frequency		12:17	15.51	10:10	17.00	17:33	10:42	_
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05	7
All India	0.104	1.74	4.79	9.92	16.44	61.57	21.99	]
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	(MU)	Schedule	(MU)	(MW)	Shortage
	Punjab	dav(MW) 7917	Demand(MW) 0	150.5	(MU) 36.4	-1.1	78	(MU) 0.00
	Haryana	7831	0	147.6	72.7	0.0	152	0.23
	Rajasthan	15855	694	305.2	108.0	-0.4	114	18.86
	Delhi	4826	0	81.4	72.1	0.5	338	0.00
NR	UP	19556	0	354.9	106.9	2.0	479	8.09
	Uttarakhand	2263	0	44.1	32.4	0.6	181	0.79
	HP	1848	0	34.7	27.6	-0.1	167	0.17
	J&K(UT) & Ladakh(UT) Chandigarh	3145 283	0	63.7 4.8	60.4 4.9	-1.0 -0.1	189 21	0.31
	Chantigarii Chhattisgarh	4837	0	103.2	53.7	0.1	346	0.00
	Gujarat	19317	0	380.4	199.2	-6.8	668	0.00
	MP	16639	0	319.3	186.5	0.0	390	0.00
WR	Maharashtra	26831	0	541.4	193.5	0.6	882	0.00
	Goa	666	0	14.7	13.2	0.9	88	0.00
	DNHDDPDCL	1200	0	27.3	27.6	-0.3	32	0.00
	AMNSIL BALCO	756 514	0	16.8 12.3	10.7 12.4	-0.4 -0.1	267 0	0.00
	Andhra Pradesh	10475	0	198.4	90.0	-0.1	549	0.00
	Telangana	13770	0	233.1	106.1	-0.7	700	0.00
SR	Karnataka	13107	0	229.2	84.2	0.4	822	0.00
	Kerala	3882	0	75.8	54.2	0.0	210	0.00
	Tamil Nadu	15328	0	308.5	161.4	0.1	1062	0.00
	Puducherry	391	0	8.5 95.5	8.2	-0.2	43 199	0.00
	Bihar DVC	5251 3530	0	72.9	84.0 -44.9	-0.6 0.5	291	0.40
	Jharkhand	1557	0	30.0	22.0	-1.2	94	2.16
ER	Odisha	5031	0	98.0	33.3	-4.0	245	0.00
	West Bengal	6624	0	119.8	-7.7	-3.4	240	0.00
	Sikkim	125	0	2.0	2.0	0.1	26	0.00
	Arunachal Pradesh	153	0	2.6	2.4	0.0	40	0.00
	Assam	1495	0	25.8 3.6	19.4 3.5	0.0	105 28	0.00
NER	Manipur Meghalaya	246 393	0	7.4	6.3	-0.2	30	0.00
NEK	Mizoram	141	0	2.1	2.0	-0.2	9	0.00
	Nagaland	140	0	2.0	2.0	-0.1	26	0.00
	Tripura	230	0	3.8	1.7	0.0	34	0.00
D. Transnatio	onal Exchanges (MU) - Import(+ve)/Export(-ve)							
		Bhutan	Nepal	Bangladesh				
Actual (MU)		-0.5	-7.5	-21.3				
Day Peak (MV	•	-98.9	-445.3	-1054.0				
E. Import/Exp	port by Regions (in MU) - Import(+ve)/Export(-ve); OD	(+)/UD(-) NR	WR	SR	ER	NER	TOTAL	7
Schedule(MU)	)	153.8	-126.9	134.4	-158.7	-2.7	0.0	4
Actual(MU) O/D/U/D(MU		151.2 -2.6	-129.5 -2.7	142.0 7.5	-167.5 -8.8	-2.7 -2.6 0.1	-6.4 -6.4	1
F. Generation	,	-2.0	-4.1	1.0	-0.0	V.1	-0.4	_
		NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	r	5420	12541	7308	2635	744	28647	47
State Sector Total		7830	16006	6465	2048	119	32467	53
	e generation (MU)	13250	28546	13773	4683	863	61114	100
	e generauon (MO)	NR	WR	SR	ER	NER	All India	% Share
Coal		805	1392	584	631	15	3426	77

G. Sourcewise generation (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	805	1392	584	631	15	3426	77
Lignite	28	14	36	0	0	78	2
Hydro	116	43	92	26	10	287	6
Nuclear	22	37	76	0	0	135	3
Gas, Naptha & Diesel	13	9	5	0	30	57	1
RES (Wind, Solar, Biomass & Others)	143	153	185	2	0	483	11
Total	1127	1648	978	658	56	4467	100
							<u> </u>
Share of RES in total generation (%)	12.68	9.29	18.88	0.25	0.75	10.81	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	24.92	14.16	36.08	4.19	18.70	20.26	

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.031
Paged on State May Demands	1.052

Based on State Max Demands

1.053

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-Jan-2023

							Date of Reporting:	
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	May Export (MW)	Import (MU)	Export (MU)	04-Jan-2023 NET (MU)
No			No. of Circuit	wax import (wi w)	Max Export (MW)	Import (MC)	Export (MC)	NEI (MC)
1mpo	rt/Export of ER (\) HVDC	ALIPURDUAR-AGRA	,	0	0	0.0	0.0	0.0
2		PUSAULI B/B	÷	0	296	0.0	6.9	-6.9
3	765 kV	GAYA-VARANASI	2	0	833	0.0	13.7	-13.7
4	765 kV	SASARAM-FATEHPUR	1	0	398	0.0	7.5 9.5	-7.5
6		GAYA-BALIA PUSAULI-VARANASI	1	0	622 207	0.0	3.8	-9.5 -3.8
7		PUSAULI -ALLAHABAD	i	0	194	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	Ü	739	0.0	9.3	-9.3
9	400 kV	PATNA-BALIA	2	0	555 594	0.0	10.5	-10.5
10		NAUBATPUR-BALIA	2	0		0.0	10.8	-10.8
11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2	0	328 497	0.0	5.2 8.3	-5.2 -8.3
13		BIHARSHARIFF-VARANASI	2	0	338	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNASA	ī	9	121	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17 18	132 kV 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	4	31	0.0	0.0	0.0
10	132 KV	KARMANASA-CHANDAULI	L1	L V	ER-NR	0.4	91.6	-91.1
Impo	rt/Export of ER (	With WR)				0.7		-71.1
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1084	250	5.8	0.0	5.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	461	859	0.0	3.7	-3.7
3	765 kV	JHARSUGUDA-DURG	2	0	544	0.0	8.9	-8.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	639	0.0	8.7	-8.7
5	400 kV	RANCHI-SIPAT	2	109	298	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	64	85	0.0	0.1	-0.1
Ė					ER-WR	5.8	26.1	-20.3
Impo	rt/Export of ER (	With SR)						
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	657	0.0	10.5	-10.5
2		TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	2472	0.0	38.2	-38.2
3		TALCHER-I/C	2	0 161	3797 1156	0.0	60.9 5.5	-60.9 -5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	161	0	0.0	0.0	-5.5 0.0
					ER-SR	0.0	109.6	-109.6
Impo	rt/Export of ER (							
1	400 kV	BINAGURI-BONGAIGAON	2	220	0	3.1	0.0	3.1
3		ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	674 60	5	10.4 0.7	0.0	10.4 0.7
3	220 K V	ALIFURDUAR-SALAKATI		1 00	ER-NER	14.2	0.0	14.2
Impo	rt/Export of NER	(With NR)			DA MEN	17.2	010	17.2
1		BISWANATH CHARIALI-AGRA	2	472	0	11.3	0.0	11.3
					NER-NR	11.3	0.0	11.3
	rt/Export of WR (				1002	0.0	24.1	24.1
1 2	HVDC HVDC	CHAMPA-KURUKSHETRA	2	0	1003	0.0	24.1 2.4	-24.1
3	HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	977	101 0	0.0 23.3	0.0	-2.4 23.3
4	765 kV	GWALIOR-AGRA	2	265	1896	0.0	23.1	-23.1
- 5	765 kV	GWALIOR-PHAGI	2	0	1940	0.0	33.2	-33.2
6		JABALPUR-ORAI	2	0	1083	0.0	28.3	-28.3
7 8	765 kV 765 kV	GWALIOR-ORAI SATNA-ORAI	1	1028 0	0 1043	17.2	0.0 18.7	17.2 -18.7
8		SATNA-ORAI	<del></del>			0.0		-18.7
				1800	981	13.4		13.4
9 10	765 kV 765 kV	BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2 2	1800 0	981 2351	13.4 0.0	0.0 30.7	13.4 -30.7
10 11	765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2 2 1	0 284	2351 170	0.0 1.8	30.7 0.0	-30.7 1.8
10 11 12	765 kV 400 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA -BHINMAL	2 2 1	0 284 436	2351 170 288	0.0 1.8 1.3	30.7 0.0 0.0	-30.7 1.8 1.3
10 11 12 13	765 kV 400 kV 400 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND	2 1 1 1	0 284 436 970	2351 170 288 0	0.0 1.8 1.3 22.0	30.7 0.0 0.0 0.0	-30.7 1.8 1.3 22.0
10 11 12 13 14	765 kV 400 kV 400 kV 400 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR	2 2 1 1 1 2	0 284 436 970 372	2351 170 288 0 603	0.0 1.8 1.3 22.0 0.0	30.7 0.0 0.0 0.0 2.6	-30.7 1.8 1.3 22.0 -2.6
10 11 12 13 14 15	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	0 284 436 970 372	2351 170 288 0 603	0.0 1.8 1.3 22.0 0.0	30.7 0.0 0.0 0.0 2.6 0.0	-30.7 1.8 1.3 22.0 -2.6 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-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	2 1 1 1	0 284 436 970 372 0 0	2351 170 288 0 603 0 30	0.0 1.8 1.3 22.0 0.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0
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-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA	2 1 1 1	0 284 436 970 372 0 0 109 80	2351 170 288 0 603 0 30 0 4	0.0 1.8 1.3 22.0 0.0 0.0 1.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0
10 11 12 13 14 15 16 17 18 19	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	2 1 1 1 2 2 1 1 1 1 1	0 284 436 970 372 0 0 109 80	2351 170 288 0 603 0 30 0 4	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 1.6 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 132 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA	2 1 1 1	0 284 436 970 372 0 0 109 80	2351 170 288 0 603 0 30 0 4	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 0.0 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-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 2 2 1 1 1 1 1	0 284 436 970 372 0 0 109 80	2351 170 288 0 603 0 30 0 4	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 1.6 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 142 kV 144 kV 145 kV 147 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 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1	0 284 436 970 372 0 0 109 80	2351 170 288 0 603 0 0 30 0 4 4 0 WR-NR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 0.0 1.5 1.5 1.5 15.1	30.7 0.0 0.0 0.0 0.0 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 0.0 0.0 0.0
10 11 12 13 14 15 16 17 18 19 20	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14V bC HVDC	VINDHYACHAL-VARANASI ZERDA-SHANKOLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA MALANPURA-URAHYA WALANPURA-URAHYA WHI SHANDHYA WALANPUR WHO SHANDHYA WALANPUR	2 1 1 1 2 2 1 1 1 1 1 1 2 2	0 284 436 970 372 0 0 109 80 0 0	2351 170 288 0 603 0 30 0 4 0 WR-NR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.0 1.6 0.0 81.6	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0 0.0 0.0 1.64.8	-30.7 1.8 1.3 2.2.0 2.6 0.0 1.6 1.0 1.6 0.0 1.6 1.0 1.1 1.5 0.1 1.5 0.0 0.1 1.5 0.0 0.0 1.5 1.5 1.5 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6
10 11 12 13 14 15 16 17 18 19 20 Import	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV HVDC HVDC 765 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR GWALIOR-SAWAIMADHOPUR RAJGHAT-LALITPUR WITH SHOP TO SHORT SHORT SHOP TO SH	2 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 2 2 2 1 1 2 2 2 1 2	0 284 436 970 372 0 109 80 0 0	2351 170 288 0 603 0 30 0 4 4 0 0 WR-NR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6	30.7 0.0 0.0 0.0 0.0 2.6 0.0 0.0 0.0 0.0 0.0 164.8	-30.7 1.8 1.3 22.0 -2.6 0.0 1.6 1.6 0.0 0.0 -83.2 13.5 -26.6 -20.7
10 11 12 13 14 15 16 17 18 19 20 Import	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 145 kV 147 kV 147 kV 148 kV 149 kV 150 kV 160 kV 170 kV	VINDHYACHAL-VARANASI ZERDA-KANKOLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SR BHADRURA BHANDHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 1 1 1 2 2 1 1 1 1 1 1 2 2	0 284 436 970 0 0 109 80 0 0 0	2351 170 288 0 603 0 30 0 4 4 0 WR-NR 610 3499 2868 4562	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 81.6 15.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 1.6 1.6 0.0 0.0 -3.5 1.6 0.0 -3.5 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6
10 11 12 13 14 15 16 17 18 19 20 Import	765 kV 400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV HVDC HVDC 765 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR GWALIOR-SAWAIMADHOPUR RAJGHAT-LALITPUR WITH SHOP TO SHORT SHORT SHOP TO SH	2 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 2 1 1 1 2	0 284 436 970 372 0 109 80 0 0	2351 170 288 0 603 0 30 0 4 4 0 0 WR-NR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.6 0.0 1.6 0.0 81.6 15.1 0.0 0.0 0.0 0.0 22.2	30.7 0.0 0.0 0.0 0.0 2.6 0.0 0.0 0.0 0.0 0.0 164.8	-30.7 1.8 1.3 22.0 -2.6 0.0 1.6 1.6 0.0 -83.2 13.5 -26.6 -20.7 -56.5 22.2
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 220 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-LITPUR WIB SIN BHADRAWATI B/B BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 2 1 1 1 2 2 2 1 1 2	0 284 436 970 372 0 109 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2351 170 288 0 603 0 0 4 0 0 WR-NR 610 3499 2868 4562 0	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 81.6 15.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 164.8 1.6 26.6 20.7 56.5 0.0 0.0	-30.7 1.8 1.3 22.0 -2.6 0.0 1.6 1.6 0.0 0.0 -3.5 1.6 0.0 -3.5 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6
10 11 12 13 14 15 16 17 18 19 20 Import 1 2 3 4 5	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI 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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 2 1 1 1 2 2 2 1 1 2	0 284 436 970 372 0 0 109 80 0 0 984 0 224 0 1353 0	2351 170 288 0 603 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0	0.0 1.8 1.3 2.2.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 81.6 15.1 0.0 0.0 0.0 0.0 0.0 1.6 15.1 0.0 0.0 0.0 0.0 0.0 1.6 15.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	30.7  1.8  1.3  22.0  -2.6  0.0  1.6  1.0  0.0  0.0  83.2  13.5  -26.6  -20.7  -56.5  22.2  0.0  0.0  1.6
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 220 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-MORAK BHANPURA-MORAK MEHGAON-AURAHVA MALANPURA-WARAHVA MALANPURA-URAHVA MALANPURA-URAHVA WISH SRI BHADRAWATI B/B BHADRAWATI B/B RAIGHAT-LALITPUR WISH SRI BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMARAD KOLHAPUR-KUDGI KOHAPUR-KUDGI KOHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2	0 284 436 970 372 0 109 109 80 0 0 984 0 224 0 0 1353 0 0	2351 170 288 0 603 0 0 4 0 0 WR-NR 610 3499 2868 4562 0	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 1.6 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	30.7 1.8 1.3 22.0 2.6 0.0 1.6 1.6 0.0 1.6 0.0 3.3 2.6 2.6 0.0 2.8 3.2 1.3.5 2.6 2.0 2.0 2.0 0.0 1.6 1.6 0.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
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 220 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-MORAK BHANPURA-MORAK MEHGAON-AURAHVA MALANPURA-WARAHVA MALANPURA-URAHVA MALANPURA-URAHVA WISH SRI BHADRAWATI B/B BHADRAWATI B/B RAIGHAT-LALITPUR WISH SRI BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMARAD KOLHAPUR-KUDGI KOHAPUR-KUDGI KOHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 2 2 1 1 1 1 1 1 2 2 2 1 1 1 2 2 2 1 1 2	0 284 436 970 372 0 109 109 80 0 0 984 0 224 0 0 1353 0 0	2351 170 288 0 603 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0	0.0 1.8 1.3 2.2.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 81.6 15.1 0.0 0.0 0.0 0.0 0.0 1.6 15.1 0.0 0.0 0.0 0.0 0.0 1.6 15.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 1.6 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-30.7 1.8 1.3 22.0 -2.6 0.0 1.6 1.6 0.0 0.0 -3.2 1.6 0.0 -3.2 1.6 0.0 0.0 -3.2 1.5 -26.6 -20.7 -56.5 22.2 0.0 0.0 1.6 -66.6 +ve)/Export(-ve)
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 220 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-MORAK BHANPURA-MORAK MEHGAON-AURAHVA MALANPURA-WARAHVA MALANPURA-URAHVA MALANPURA-URAHVA WISH SRI BHADRAWATI B/B BHADRAWATI B/B RAIGHAT-LALITPUR WISH SRI BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMARAD KOLHAPUR-KUDGI KOHAPUR-KUDGI KOHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 2 2 2 2	0 284 436 970 372 0 109 109 80 0 0 984 0 224 0 0 1353 0 0	2351 170 288 0 603 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0	0.0 1.8 1.3 2.2.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 81.6 15.1 0.0 0.0 0.0 0.0 0.0 1.6 15.1 0.0 0.0 0.0 0.0 0.0 1.6 15.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	30.7 0.0 0.0 0.0 2.6 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 1.6 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-30.7  1.8  1.3  22.0  -2.6  0.0  -1.6  1.0  0.0  -3.0  -3.1  -3.0  -3.0  -3.1  -3.0
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 220 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WISH SRIP WISH SRIP WISH SRIP WISH SRIP WISH SRIP WARDHANIZAMADA WARDHANIZAMADA WARDHANIZAMADA WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN	2 1 1 1 2 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	0 284 436 436 970 372 0 109 80 0 0 109 80 0 224 0 1353 0 0 0 CCHANGES Name	2351 170 288 0 603 0 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 15.1 0.0 0.0 0.0 0.0 1.6 0.0 0.0 1.6 1.6 0.0 81.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	30.7 0.0 0.0 0.0 0.0 2.6 0.0 0.0 0.0 0.0 0.0 164.8 1.6 2.6 2.7 56.5 0.0 0.0 0.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	-30.7 1.8 1.3 22.0 -2.6 0.0 1.6 1.6 0.0 0.0 -3.2 1.6 0.0 -3.2 1.6 0.0 0.0 -3.2 1.5 -26.6 -20.7 -56.5 22.2 0.0 0.0 1.6 -66.6 +ve)/Export(-ve)
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 220 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI 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 BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region	2	0 284 436 970 372 0 0 109 109 80 0 0 984 0 224 0 1353 0 0 0 CHANGES  CHANGES  Name	2351 170 288 0 0 0 0 0 30 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 1.5.1 0.0 0.0 0.0 22.2 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 2.6 0.0 0.0 0.0 0.0 0.0 164.8 1.6 2.6 2.7 56.5 0.0 0.0 0.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	-30.7  1.8  1.3  22.0  -2.6  -0.0  -1.6  1.0  0.0  -1.6  3.2  -3.2  -3.2  -3.5  -3.6  -20.7  -56.5  -22.2  -3.0  0.0  1.6  -4.0  -4.0  -5.6  -6.6  -6.
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 220 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WISH SRIP WISH SRIP WISH SRIP WISH SRIP WISH SRIP WARDHANIZAMADA WARDHANIZAMADA WARDHANIZAMADA WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 284 436 970 372 0 109 109 80 0 109 80 0 984 0 224 0 1353 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from	2351 170 288 0 603 0 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 15.1 0.0 0.0 0.0 0.0 1.6 0.0 0.0 1.6 1.6 0.0 81.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	30.7 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 164.8 1.6 20.7 56.5 0.0 0.0 105.4 1	-30.7  1.8  1.3  22.0  -2.6  0.0  -1.6  1.0  0.0  -3.0  -3.1  -3.0  -3.0  -3.1  -3.0
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 220 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR MALANPURA-URAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-RUGGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	0 284 436 970 372 0 109 109 80 0 0 109 80 0 0 1224 0 1353 0 0 0 CCHANGES Name U-ALIPURDUAR AR RECEIPT (from 4180MW) URI 12,4 (& 400KV)	2351 170 288 0 603 0 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 15.1 0.0 0.0 0.0 1.6 0.0 81.6  Min (MW)	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 164.8 1.6 26.6 20.7 56.5 0.0 0.0 0.0 164.8 165.0 164.8 175.0 185.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 -3.6 -3.2 1.5 -26.6 -20.7 -56.5 -22.2 0.0 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48
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 220 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI 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 BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region	2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 1	0 284 436 970 372 0 0 0 109 80 0 0 984 0 0 984 0 1353 0 0 0 CCHANGES Name HU-ALIPURDUAR AR RECEIPT (from 4/180MW) URI 12,4 (& 400K) URI 12,4 (& 400K) URI 12,4 (& 400K)	2351 170 288 0 0 0 0 0 30 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 1.5.1 0.0 0.0 0.0 22.2 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 164.8 1.6 20.7 56.5 0.0 0.0 105.4 1	-30.7  1.8  1.3  22.0  -2.6  -0.0  -1.6  1.0  0.0  -1.6  3.2  -3.2  -3.2  -3.5  -3.6  -20.7  -56.5  -22.2  -3.0  0.0  1.6  -4.0  -4.0  -5.6  -6.6  -6.
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR MALANPURA-URAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-RUGGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	0 284 436 970 372 0 109 109 80 0 0 109 80 0 0 1224 0 1353 0 0 0 CCHANGES Name UCALIPURDUAR AR RECEIPT (from 4*180MW) URI 12.4 (8*400KV) URI 12.6 (	2351 170 288 0 603 0 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 15.1 0.0 0.0 0.0 1.6 0.0 81.6  Min (MW)	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 164.8 1.6 26.6 20.7 56.5 0.0 0.0 0.0 164.8 165.0 164.8 175.0 185.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 -3.6 -3.2 1.5 -26.6 -20.7 -56.5 -22.2 0.0 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48
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 220 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR MALANPURA-URAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-RUGGI KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 2 1	0 284 436 970 372 0 109 109 80 0 0 109 80 0 0 1224 0 1353 0 0 0 CCHANGES Name UL-ALIPURDUAR AR RECEIPT (from 4*180MW) URI 1,2,4 (8*400KV) URI 1,2,4 (4*400KV) URI 1,2,	2351 170 288 0 603 0 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 15.1 0.0 0.0 0.0 1.6 0.0 81.6  Min (MW)	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 164.8 1.6 26.6 20.7 56.5 0.0 0.0 0.0 164.8 165.0 164.8 175.0 185.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 -3.6 -3.2 1.5 -26.6 -20.7 -56.5 -22.2 0.0 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER	2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 2 1	0 284 436 970 372 0 109 109 80 0 0 109 80 0 0 1224 0 1353 0 0 0 CCHANGES Name UL-ALIPURDUAR AR RECEIPT (from 4*180MW) URI 1,2,4 (8*400KV) URI 1,2,4 (4*400KV) URI 1,2,	2351 170 288 0 0 0 0 0 30 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 0.0 0.0 0.0 22.2 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 0.0 -1.6 0.0 -3.2 -3.2 -3.6 -3.0 -3.0 -3.1 -3.5 -3.6 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WITH BB BHADRWATI BB BHADRWATI BB BHADRWATI BB RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI IN REGION ER  ER	2 1 1 1 2 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 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 2	0 284 436 470 970 372 0 109 109 80 0 0 109 80 0 0 109 80 0 0 1353 0 0 1353 0 0 0 CCHANGES Name AR RECEIPT (from 4*180MW) URI 1,2,4 (8*400KV URI) 1,6, BINAGURI AHEP (6*170MW) PARA 1,82 (& 220KV TA) 1,6 BINAGURI AHEP (6*170MW) PARA 1,82 (& 220KV TA) 1,6 BINAGURI AHEP (6*170MW)	2351 170 288 0 603 0 0 0 4 0 WR-NR 610 43499 2868 4562 0 0 92 WR-SR	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 0.0 0.0 0.0 1.6 0.0 38.8 Min (MW)	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 1.6 0.0 -3.2 6.6 -2.0 -2.6 -2.0 0.0 1.6 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 2 1	0 284 436 470 970 372 0 109 109 80 0 0 109 80 0 0 109 80 0 0 1353 0 0 1353 0 0 0 CCHANGES Name AR RECEIPT (from 4*180MW) URI 1,2,4 (8*400KV URI) 1,6, BINAGURI AHEP (6*170MW) PARA 1,82 (& 220KV TA) 1,6 BINAGURI AHEP (6*170MW) PARA 1,82 (& 220KV TA) 1,6 BINAGURI AHEP (6*170MW)	2351 170 288 0 0 0 0 0 30 0 0 4 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 0 WR-SR	0.0 1.8 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 0.0 0.0 0.0 22.2 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)	30.7 1.8 1.3 22.0 2.6 0.0 1.6 1.6 0.0 1.6 0.0 3.2 83.2 13.5 26.6 20.7 25.6.5 22.2 0.0 1.6 1.6 1.6 1.7 20.7 20.7 21.6 21.6 22.72
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI 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 BHADRAWATI B/B RAJGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region  ER  ER  ER	2	0 284 436 436 970 372 0 109 109 80 0 109 80 0 0 984 0 0 984 0 0 1353 0 0 0 1353 0 0 0 1453 0 0 0 1554 0 0 1754 1754 1755 1755 1755 1755 1755 1755	2351 170 288 0 0 0 0 0 30 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR Max (MW) 0 238	0.0 1.8 1.3 22.0 0.0 0.0 0.0 0.0 1.6 0.0 1.6 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)  0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 1.6 0.0 -1.6 1.0 0.0 -3.2 -3.2 -3.6 -2.6 -2.0 -3.6 -2.0 -3.6 -2.0 -3.6 -2.0 -3.6 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WITH BB BHADRWATI BB BHADRWATI BB BHADRWATI BB RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI IN REGION ER  ER	2 1 1 1 2 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 1 1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 1 1 1 2	0 284 436 436 970 372 0 109 109 80 0 109 80 0 0 984 0 0 984 0 0 1353 0 0 0 1353 0 0 0 1453 0 0 0 1554 0 0 1754 1754 1755 1755 1755 1755 1755 1755	2351 170 288 0 603 0 0 0 4 0 WR-NR 610 43499 2868 4562 0 0 92 WR-SR	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 0.0 0.0 0.0 1.6 0.0 38.8 Min (MW)	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 -3.6 1.6 0.0 -3.2 -3.2 1.3.5 -26.6 -20.7 -56.5 -22.2 0.0 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48 -1.48
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI 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 BHADRAWATI B/B RAJGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region  ER  ER  ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 ERNATIONAL EX Line 400KV MANGDECHH 1,2&3 i.e. Alpurdu MANGDECHU HEND MANGDECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MALBASE BIRDAR RECEIPT (from TAL 220KV CHU KHA-BIR RECEIPT (from CHU 132kV GELEPHU-SA	0 284 284 436 470 970 372 0 109 109 80 0 0 109 80 0 224 0 1353 0 0 0 CCHANGES Name 1U-ALIPURDUAR AR RECEIPT (from 4*180MW) URI 1,2,4 (8 400KV ) URI 1,2,4 (8	2351 170 288 0 0 0 0 0 30 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR Max (MW) 0 238	0.0 1.8 1.3 22.0 0.0 0.0 0.0 0.0 1.6 0.0 1.6 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)  0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 1.6 0.0 -1.6 1.0 0.0 -3.2 -3.2 -3.6 -2.6 -2.0 -3.6 -2.0 -3.6 -2.0 -3.6 -2.0 -3.6 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI 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 BHADRAWATI B/B RAJGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region  ER  ER  ER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1	0 284 284 436 436 970 372 0 0 109 109 80 0 0 984 0 0 224 0 0 1353 0 0 0 1353 0 0 CHANGES Name HU-ALIPURDUAR AR RECEIPT (from 44'180MW) URI 12,4 (8' 400KW) URI 12,4 (8' 400KW) URI 12,4 (8' 400KW) LAKATI AHEP (*1'19MW) PARA 182 (8' 220KW LA) i.e. BIRPARA KHA HEP 4*84MW) LAKATI ANGIA	2351 170 288 0 0 0 0 0 30 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR Max (MW) 0 238	0.0 1.8 1.3 22.0 0.0 0.0 0.0 0.0 1.6 0.0 1.6 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)  0	-30.7 1.8 1.3 22.0 -2.6 0.0 -1.6 1.0 1.6 0.0 -1.6 1.0 0.0 -3.2 -3.2 -3.6 -2.6 -2.0 -3.6 -2.0 -3.6 -2.0 -3.6 -2.0 -3.6 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.6 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WITH SHADARWATI B/B RAIGHAR-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI IN Region  ER  ER  ER  NER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 1 ERNATIONAL EX Line 400KV MANGDECHH 1,2&3 i.e. Alpurdu MANGDECHU HEND MANGDECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MANGTECHU HEND MALBASE BIRDAR RECEIPT (from TAL 220KV CHU KHA-BIR RECEIPT (from CHU 132kV GELEPHU-SA	0 284 284 436 436 970 372 0 0 109 109 80 0 0 984 0 0 224 0 0 1353 0 0 0 1353 0 0 CHANGES Name HU-ALIPURDUAR AR RECEIPT (from 44'180MW) URI 12,4 (8' 400KW) URI 12,4 (8' 400KW) URI 12,4 (8' 400KW) LAKATI AHEP (*1'19MW) PARA 182 (8' 220KW LA) i.e. BIRPARA KHA HEP 4*84MW) LAKATI ANGIA	2351 170 288 0 603 0 0 0 4 0 WR-NR 610 2868 4562 0 0 92 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 0.0 0.0 0.0 1.6 0.0 38.8 Min (MW)  0 -6	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 1.6 1.0 0.0 -83.2 13.5 -26.6 -20.7 -56.5 -22.2 0.0 1.6 -66.6 (+ve)/Export(-ve) (MU) -1.48 -1.48 -1.40
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 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	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 BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER  ER  ER  NER  NER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 1	0 284 436 436 970 372 0 0 109 109 80 0 0 984 0 0 984 0 0 1353 0 0 1353 0 0 1353 0 0 1453 0 0 1553 0 0 1654 0 1754 1754 1755 1755 1755 1755 1755 1755	2351 170 288 0 0 0 0 0 0 30 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.5 0.0 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8  Min (MW)  0 -6	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)  0  -15	-30.7 1.8 1.3 2.2.0 -2.6 0.0 -1.6 1.0 1.6 0.0 -1.6 1.0 0.0 -3.2 -3.2 -3.6 -2.6.6 -2.0.7 -5.6.5 -22.2 0.0 0.1 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48 -0.35 -0.54
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 220 kV 132 kV rt/Export of WR ( HVDC HVDC 765 kV 400 kV 220 kV 132 kV rt/Export of WR ( 220 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WITH SHADARWATI B/B RAIGHAR-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI IN Region  ER  ER  ER  NER	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1	0 284 436 436 970 372 0 0 109 109 80 0 0 984 0 0 984 0 0 1353 0 0 1353 0 0 1353 0 0 1453 0 0 1553 0 0 1654 0 1754 1754 1755 1755 1755 1755 1755 1755	2351 170 288 0 603 0 0 0 4 0 WR-NR 610 2868 4562 0 0 92 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 1.0 1.6 0.0 81.6 15.1 15.1 0.0 0.0 0.0 1.6 0.0 38.8 Min (MW)  0 -6	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 1.6 1.0 0.0 -83.2 13.5 -26.6 -20.7 -56.5 -22.2 0.0 1.6 -66.6 (+ve)/Export(-ve) (MU) -1.48 -1.48 -1.40
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 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	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 BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER  ER  ER  NER  NER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 1	0 284 436 436 970 372 0 0 109 109 80 0 0 984 0 0 984 0 0 1353 0 0 1353 0 0 1353 0 0 1453 0 0 1553 0 0 1654 0 1754 1754 1755 1755 1755 1755 1755 1755	2351 170 288 0 0 0 0 0 0 30 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.5 0.0 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8  Min (MW)  0 -6	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)  0  -15	-30.7 1.8 1.3 2.2.0 2.6 -0.0 -1.6 1.0 1.6 0.0 1.6 0.0 3.3 13.5 -26.6 -20.7 -56.5 22.2 0.0 0.0 1.6 -66.6 -4ve)/Export(-ve) Energy Exchange (MU) -1.48 -0.35 -0.35
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 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	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 BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER  ER  ER  NER  NER	2 1 1 1 2 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 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 2 2 8 8 9 9 9 1 1 1 1 1 2 2 8 1 1 1 1 1 1 1 1 1 1 1 1	0 284 436 436 970 372 0 0 109 109 80 0 0 984 0 0 984 0 0 1353 0 0 1353 0 0 1353 0 0 1453 0 0 1553 0 0 1654 0 1754 1754 1755 1755 1755 1755 1755 1755	2351 170 288 0 0 0 0 0 0 30 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.5 0.0 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8  Min (MW)  0 -6	30.7 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 164.8  1.6 20.7 56.5 0.0 0.0 0.0 105.4  Import  Avg (MW)  0  -15	-30.7 1.8 1.3 2.2.0 2.6 -0.0 -1.6 1.0 1.6 0.0 1.6 0.0 3.3 13.5 -26.6 -20.7 -56.5 22.2 0.0 0.0 1.6 -66.6 -4ve)/Export(-ve) Energy Exchange (MU) -1.48 -0.35 -0.35
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 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAM MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WITH SRI BHADRAWATI B/B RAJGRHS-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI X	2 1 1 1 2 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 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 2 2 8 8 9 9 9 1 1 1 1 1 2 2 8 1 1 1 1 1 1 1 1 1 1 1 1	0	2351 170 288 0 603 0 603 0 0 4 0 WR-NR 610 2868 4562 0 0 92 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.6 38.8  Min (MW)  0  -6 -12	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 1.6 1.0 0.0 -83.2 13.5 -26.6 -20.7 -56.5 22.2 0.0 1.6 1.0 0.0 1.6 -20.7 -56.5 -22.7 -24.7 -25.6 -22.7 -25.6 -22.7 -25.6 -20.7 -35.7
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 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA BHADRUR-AURAIYA WITH SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER  ER  NER  NER  NER  NER  NER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1	0 284 436 970 372 0 0 109 109 80 0 0 109 80 0 0 984 0 0 984 0 0 1353 0 0 1353 0 0 0 1353 0 0 0 1353 0 0 1453 0 0 1574 1674 1787 1878 1878 1878 1878 1878 1878 18	2351 170 288 288 0 0 0 0 0 WR-NR 610 349 2868 4562 0 0 0 WR-SR   Max (MW)  0 238 0 -19 12 -43 -98	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.5 0.0 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8  Min (MW)  0 -6 -12 -70 -56	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 22.0 2.6 -0.0 -1.6 1.0 1.6 0.0 1.6 0.0 3.3 13.5 -26.6 -20.7 -56.5 22.2 2.2.2 0.0 0.0 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48 2.72 -1.40 -0.35 -0.54 -2.02 -4.96
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 rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAM MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WITH SRI BHADRAWATI B/B RAJGRHS-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI X	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1	0	2351 170 288 0 603 0 603 0 0 4 0 WR-NR 610 2868 4562 0 0 92 WR-SR  Max (MW) 0 238	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.6 38.8  Min (MW)  0  -6 -12	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 0.1 1.6 1.0 0.0 1.6 1.0 0.0 -83.2 13.5 -26.6 -20.7 -56.5 22.2 0.0 1.6 -20.7 -56.5 -22.7 -24.0 -25.6 -25.7 -25.6 -20.7 -25.6 -20.7 -35.7
10 11 12 13 14 15 16 17 18 19 20 1 1 2 3 4 5 6 7 8	765 kV 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 320 kV 132 kV rt/Export of WR HVDC T65 kV 220 kV 220 kV 220 kV 220 kV NOS kV 220 kV 220 kV NOS kV	VINDHYACHAL-VARANASI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-BANFAR MEHGAON-AURAHYA MALANPURA-BURATUA MALANPURA-BURATUA MALANPURA-BURATUA WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-BURATUR NER  ER  ER  ER  ER  ER  ER  ER  ER  E	2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 2 2 2 2 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 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 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 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 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 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 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 2	0	2351 170 288 288 0 603 0 0 4 0 0 WR-NR 610 3499 2868 4562 0 0 0 WR-SR  Max (MW) 0  238 0 -19 12 -43 -98	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 1.3 2.2.0 -2.6 0.0 1.6 1.0 1.6 0.0 1.6 1.0 0.0 -83.2 13.5 -26.6 -20.7 -56.5 22.2 0.0 1.6 1.0 1.0 1.0 -20.7 -56.5 -22.2 0.0 1.6 -20.7 -56.5 -22.2 0.0 0.0 1.6 -20.7 -56.5 -22.2 0.0 0.0 1.6 -20.7 -56.5 -22.2 0.0 0.0 0.0 1.6 -20.7 -56.5 -22.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
10 11 12 13 14 15 16 17 18 19 20 1 1 2 3 4 5 6 7 8	765 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR ( HVDC T65 kV 400 kV 220 kV 220 kV State	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA BHADRUR-AURAIYA WITH SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI  IN Region  ER  ER  NER  NER  NER  NER  NER	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1	0	2351 170 288 288 0 0 0 0 0 WR-NR 610 349 2868 4562 0 0 0 WR-SR   Max (MW)  0 238 0 -19 12 -43 -98	0.0 1.8 1.3 1.3 22.0 0.0 0.0 0.0 0.0 1.0 1.5 0.0 0.0 81.6 15.1 0.0 0.0 0.0 1.6 38.8  Min (MW)  0 -6 -12 -70 -56	30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-30.7 1.8 1.3 22.0 2.6 -0.0 -1.6 1.0 1.6 0.0 1.6 0.0 3.3 13.5 -26.6 -20.7 -56.5 22.2 2.2.2 0.0 0.0 1.6 -66.6 (+ve)/Export(-ve) Energy Exchange (MU) -1.48 2.72 -1.40 -0.35 -0.54 -2.02 -4.96