

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 05th July 2022

To,

- 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 04.07.2022.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक ०४-जुलाई-२०२२ की अखिल भारतीय प्रणाली की

दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 04th July 2022, is available at the NLDC website.

धन्यवाद,

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



Report for previous day
A. Power Supply Position at All India and Regional level Date of Reporting: 05-Jul-2022

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	65101	52006	42220	24544	3101	186972
Peak Shortage (MW)	1510	0	0	839	67	2416
Energy Met (MU)	1511	1209	967	539	60	4285
Hydro Gen (MU)	359	24	71	122	32	608
Wind Gen (MU)	8	76	235	-	-	319
Solar Gen (MU)*	87.04	36.68	80.93	5.29	0.64	211
Energy Shortage (MU)	11.28	0.00	0.00	4.49	1.00	16.77
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69724	53256	45801	25015	3261	188563
Time Of Maximum Demand Met (From NLDC SCADA)	23:36	11:23	10:52	20:33	19:09	19:44

B. Frequency Profile (%)
Region
All India
 49.7 - 49.8
 49.8 - 49.9

 6.91
 12.23

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		dav(MW)	Demand(MW)	(MIC)	(MU)	(MU)	(14144)	(MU)
	Punjab	13153	0	293.5	181.5	-1.7	41	0.00
	Haryana	11198	0	227.2	156.1	1.4	326	1.11
	Rajasthan	10915	9	238.0	62.8	0.4	459	2.46
	Delhi	6580	0	130.2	118.5	-0.1	335	0.00
NR	UP	23066	1224	481.9	225.6	0.8	499	7.02
	Uttarakhand	2342	0	49.0	26.6	1.1	154	0.69
	HP	1556	0	32.9	-3.9	-0.5	38	0.00
	J&K(UT) & Ladakh(UT)	2160	0	51.2	30.9	-3.9	242	0.00
	Chandigarh	379	0	7.4	7.2	0.2	40	0.00
	Chhattisgarh	4207	0	97.0	41.6	-1.6	236	0.00
	Gujarat	16466	0	355.6	201.6	0.4	1045	0.00
	MP	9551	0	209.3	101.1	0.0	419	0.00
WR	Maharashtra	22540	0	488.3	165.1	-2.1	866	0.00
	Goa	579	0	11.9	11.9	0.0	30	0.00
	DNHDDPDCL	1193	0	27.4	27.1	0.3	61	0.00
	AMNSIL	888	0	19.3	10.4	-0.1	284	0.00
	Andhra Pradesh	9008	0	192.8	20.8	0.4	711	0.00
	Telangana	8469	0	164.7	76.9	2.5	728	0.00
SR	Karnataka	10402	0	194.6	56.7	-0.8	542	0.00
	Kerala	3328	0	64.5	40.3	-0.3	173	0.00
	Tamil Nadu	15972	0	340.7	119.8	-2.3	677	0.00
	Puducherry	469	0	9.5	9.3	0.1	78	0.00
	Bihar	6031	0	126.8	112.5	2.8	347	3.57
	DVC	3449	0	75.0	-45.5	-0.2	278	0.00
	Jharkhand	1631	0	32.8	25.2	-0.7	166	0.92
ER	Odisha	5377	0	114.3	52.1	1.0	385	0.00
	West Bengal	9304	0	188.2	63.8	0.5	308	0.00
	Sikkim	91	0	1.4	1.5	-0.1	17	0.00
	Arunachal Pradesh	137	0	2.4	2.1	-0.1	42	0.00
	Assam	2071	0	39.9	31.0	0.2	180	0.12
	Manipur	175	0	2.6	2.6	-0.1	28	0.00
NER	Meghalaya	276	52	5.4	0.1	0.3	61	0.86
	Mizoram	98	0	1.5	1.4	-0.3	12	0.00
	Nagaland	145	0	2.6	2.2	-0.1	11	0.00
	Tripura	315	0	5.6	5.8	0.4	139	0.02

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)							
	Bhutan	Nepal	Bangladesh				
Actual (MU)	39.2	7.3	-24.9				
Day Peak (MW)	1887.0	379.6	-1078.0				

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	283.6	-127.3	-15.4	-139.7	-5.1	-3.9
Actual(MU)	296.5	-114.7	-50.5	-132.3	-5.9	-6.9
O/D/U/D(MU)	12.9	12.6	-35.2	7.4	-0.8	-3.0
•		-	-		-	

F. Generation Outage(MW) WR 13926 16406 30331 Central Sector State Sector Total

G. Sourcewise generation (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	734	1161	486	582	17	2979	67
Lignite	28	11	58	0	0	97	2
Hydro	361	24	71	122	32	611	14
Nuclear	29	33	67	0	0	129	3
Gas, Naptha & Diesel	17	6	9	0	24	56	1
RES (Wind, Solar, Biomass & Others)	111	113	355	5	1	584	13
Total	1279	1349	1046	710	73	4456	100
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Share of RES in total generation (%)	8.66	8.37	33.93	0.75	0.87	13.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	39.17	12.60	47.15	18.00	44.42	29.71

H. All India Demand Diversity Factor

Based on Regional Max Demands

Based on State Max Demands

1,045

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: 05-Jul-2022

CI1								
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	May Export (MW)	Import (MU)	Date of Reporting: Export (MU)	05-Jul-2022 NET (MU)
No			No. of Circuit	Max Import (M W)	Max Export (MW)	Import (MC)	Export (MC)	NEI (MU)
Impo:	rt/Export of ER (\) HVDC	With NR) ALIPURDUAR-AGRA	,	0	1001	0.0	24.5	-24.5
2		PUSAULI B/B		0	49	0.0	1.3	-24.5
3	765 kV	GAYA-VARANASI	2	140	405	0.0	3.1	-3.1
4	765 kV	SASARAM-FATEHPUR	1	0	369	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	757	0.0	12.8	-12.8
7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	44 0	44 103	0.1	0.0 1.2	0.1 -1.2
8		MUZAFFARPUR-GORAKHPUR	2	0	867	0.0	16.8	-16.8
9	400 kV	PATNA-BALIA	2	Ü	600	0.0	12.5	-12.5
10		NAUBATPUR-BALIA	2	0	636	0.0	13.0	-13.0
11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2	336	582 482	0.0	8.0 8.7	-8.0
13		BIHARSHARIFF-VARANASI	2	0	290	0.0	3.9	-8.7 -3.9
14	220 kV	SAHUPURI-KARAMNASA	ī	0	154	0.0	2.7	-2.7
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	0	0	0.0	0.0	0.0
10	132 K 1	RAKMANAGA-CHANDACLI			ER-NR	0.4	115.0	-114.5
Impo	rt/Export of ER (
1		JHARSUGUDA-DHARAMJAIGARH	4	629	0	13.8	0.0	13.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1451	114	20.9	0.0	20.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	1.0	-1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	273	132	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	94	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	133	0	1.9	0.0	1.9
Ļ		THE CONTRACTOR OF THE CONTRACT			ER-WR	39.1	4.8	34.3
	rt/Export of ER (WITH SK)	2	500	392	3.6	0.0	3.6
2	HVDC HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	1996	0.0	38.4	-38.4
3	765 kV	ANGUL-SRIKAKULAM	2	Ů	2802	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	722	168	6.4	0.0	6.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0 ED CD	0.0	0.0	0.0
Imno	ort/Export of ER (With NER)			ER-SR	3.6	83.7	-80.0
1	400 kV	BINAGURI-BONGAIGAON	2	0	494	0.0	7.5	-7.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	549	0.0	7.2	-7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	143	0.0	2.2	-2.2
Imno	ort/Export of NER	(With NR)			ER-NER	0.0	17.0	-17.0
1		BISWANATH CHARIALI-AGRA	2	0	1006	0.0	24.1	-24.1
					NER-NR	0.0	24.1	-24.1
	rt/Export of WR (2520		20.2	20.2
1 2	HVDC HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	0 270	2539 0	0.0	39.3 0.0	-39.3 7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	713	7.3 0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	60	2421	0.0	34.2	-34.2
5		GWALIOR-PHAGI	2	0	1789	0.0	27.1	-27.1
7		JABALPUR-ORAI GWALIOR-ORAI	2	703	1143 0	0.0 12.2	30.4 0.0	-30.4 12.2
8	765 kV	SATNA-ORAI	1	0	1198	0.0	21.8	-21.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1626	72	19.3	0.1	19.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3534	0.0	61.7	-61.7
11	400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	335 523	57 130	3.7 5.7	0.0	3.7 5.7
			!		130			
13	400 kV	VINDHYACHAL -RIHAND	1 1		0	21.9	0.0	21.9
13 14	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	2	955 0	0 435	21.9 0.0	0.0 0.6	21.9 -0.6
14 15	400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR	1 2 1	0	435 0	0.0 0.0	0.6 0.0	-0.6 0.0
14 15 16	400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	1 2 1 1	0 0 0	435 0 30	0.0 0.0 0.0	0.6 0.0 2.5	-0.6 0.0 -2.5
14 15 16 17	400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 2 1 1	0 0 0 108	435 0 30 0	0.0 0.0 0.0 0.0	0.6 0.0 2.5 0.0	-0.6 0.0 -2.5 0.4
14 15 16	400 kV 220 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 2 1 1 1 1	0 0 0	435 0 30	0.0 0.0 0.0	0.6 0.0 2.5	-0.6 0.0 -2.5
14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 2 1 1 1 1 1 2	0 0 0 108 76	435 0 30 0 21 0	0.0 0.0 0.0 0.4 1.0 0.0	0.6 0.0 2.5 0.0 0.0 0.0 0.0	-0.6 0.0 -2.5 0.4 1.0 0.0 0.0
14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 1 1	0 0 0 108 76	435 0 30 0 21	0.0 0.0 0.0 0.4 1.0	0.6 0.0 2.5 0.0 0.0	-0.6 0.0 -2.5 0.4 1.0
14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR)	1 1 1 1 1	0 0 0 108 76 0	435 0 30 0 21 0 WR-NR	0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5	0.6 0.0 2.5 0.0 0.0 0.0 0.0 232.2	-0.6 0.0 -2.5 0.4 1.0 0.0 0.0 -160.6
14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 1 1 1	0 0 0 108 76 0 0	435 0 30 0 21 0	0.0 0.0 0.0 0.4 1.0 0.0 71.5	0.6 0.0 2.5 0.0 0.0 0.0 0.0	-0.6 0.0 -2.5 0.4 1.0 0.0 -160.6
14 15 16 17 18 19 20 Import 1 2 3	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV	RAPP-SHUJALPUR BHANPURA-RANFUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA GWALIOR-SAWAH MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR	1 1 1 1 1 1 2	0 0 0 108 76 0 0 0	435 0 30 0 21 0 WR-NR	0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5	0.6 0.0 2.5 0.0 0.0 0.0 0.0 232.2 0.0 0.0 4.7	-0.6 0.0 -2.5 0.4 1.0 0.0 0.0 -1.0 0.0 -160.6
14 15 16 17 18 19 20 Import 1 2 3	400 kV 220 kV 220 kV 220 kV 220 kV 222 kV 132 kV 132 kV 142 kV 152 kV 155 kV 1765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 1 1 1 1 2 2	0 0 0 108 76 0 0 0 287 2872 986 0	435 0 30 0 21 0 WR-NR 0 0 1831 3045	0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6	0.6 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -140.6 -24.0 -60.2 -2.9 -37.2
14 15 16 17 18 19 20 Import 1 2 3 4 5	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (HVDC HVDC 765 kV 400 kV	RAPP-SHUJALPUR BHANPURA-RANFUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	1 1 1 1 1 1 2 2 2 2 2 2	0 0 108 76 0 0 0 987 2872 986 0 1553	435 0 30 0 21 0 WR-NR 0 0 1831 3045	0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0	0.6 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 232.2 0.0 0.0 4.7 37.2 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -160.6 -24.0 -60.2 -2.9 -37.2 -28.6
14 15 16 17 18 19 20 Import 1 2 3	400 kV 220 kV 220 kV 220 kV 220 kV 222 kV 132 kV 132 kV 142 kV 152 kV 155 kV 1765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 1 1 1 1 2 2	0 0 0 108 76 0 0 0 287 2872 986 0	435 0 30 0 21 0 WR-NR 0 0 1831 3045	0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6	0.6 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -140.6 -24.0 -60.2 -2.9 -37.2
14 15 16 17 18 19 20 Import 1 2 3 4 5	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 170 C 170 S kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	1 1 1 1 1 1 2 2 2 2 2 2	0 0 108 76 0 0 0 287 2872 986 0 0 1553 0	435 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 0.0 0.0 2.0	0.6 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 -160.6 -24.0 -37.2 -38.6 -0.0 -0.0 -2.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 170 C 170 S kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WISHALAURAURAIYA WISHALAURAURAIYA WISHALAURAURAURAIYA WAJAHALAURAURAURAURAURAURAURAURAURAURAURAURAURA	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1	987 2872 986 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 0.0 232.2 0.0 0.0 4.7 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 -24.0 -37.2 -28.6 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 170 C 170 S kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WISHALAURAURAIYA WISHALAURAURAIYA WISHALAURAURAURAIYA WAJAHALAURAURAURAURAURAURAURAURAURAURAURAURAURA	1 1 1 1 1 1 2 2 2 2 2 2	987 2872 986 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 0.0 0.0 2.0	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 0.0 232.2 0.0 0.0 4.7 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -160.6 -24.0 -60.2 -2.9 -37.2 -28.6 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 170 C 170 S kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SHADEN SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SRIP SHADEN SHA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 1	987 2872 986 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 0.0 0.0 2.0	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 0.0 232.2 0.0 0.0 4.7 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WILOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WILD SRIP BHADRAWATI B/B BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 1	0 0 108 76 0 0 0 1987 2872 2886 0 1553 0 0 0 CCHANGES	435 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 28.6	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 2.32.2 0.0 0.0 4.7 37.2 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -160.6 -24.0 -60.2 -2.9 -37.2 -28.6 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WILOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WILD SRIP BHADRAWATI B/B BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 28.6	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 2.32.2 0.0 0.0 4.7 37.2 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH ST.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 108 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 1110 WR-SR	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 122.4 Min (MW)	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 232.2 0.0 4.7 37.2 0.0 0.0 0.0 41.9 Import	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -160.6 -160.6 -24.0 -37.2 -28.6 -0.0 -0.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH ST.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 110 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 2.0 122.4 Min (MW)	0.6 0.0 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 232.2 0.0 4.7 37.2 0.0 0.0 0.0 41.9 Import	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 24.0 -60.2 -2.9 -37.2 -37.2 -28.6 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -1.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	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 RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	0 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 1110 WR-SR	0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 -160.6 -160.6 -24.0 -37.2 -28.6 -0.0 -0.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 108 108 176 109 109 109 109 109 109 109 109 109 109	435 0 0 30 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	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 RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	0 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 110 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 2.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -160.6 24.0 -60.2 -2.9 -37.2 -37.2 -28.6 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -1.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	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 RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	1	0 0 0 108 76 0 0 987 987 2872 986 0 1553 0 0 1553 0 0 CHANGES Name WHALIPURDUAR AR RECEIPT (from 4*180MW) URI 1,2,4 (8 400kV RI) 1,6 & BINAGURI A HEP (6*170MW) PARA 1 k2 (& 220kV A) 1,6 & RIPAMW)	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 2.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -2.9 -37.2 -28.6 -0.0 -0.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	1	0 0 0 108 76 0 0 987 987 2872 986 0 1553 0 0 1553 0 0 CHANGES Name WHALIPURDUAR AR RECEIPT (from 4*180MW) URI 1,2,4 (8 400kV RI) 1,6 & BINAGURI A HEP (6*170MW) PARA 1 k2 (& 220kV A) 1,6 & RIPAMW)	435 0 0 30 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	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 RAIGABH-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	0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 0 0 CHANGES CHANGES	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 2.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -2.9 -37.2 -28.6 -0.0 -0.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	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 RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	1	0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 0 0 CHANGES CHANGES	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 2.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -2.9 -37.2 -28.6 -0.0 -0.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER	TERNATIONAL EX TERNATIONAL EX Line 400KV MANGDECH 1 L28-31c. ALIPURDU MONG PECH. HEPA MALBASE - BINAGG MALBASE -	0 0 0 108 108 108 108 108 108 108 108 10	435 0 0 30 0 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR Max (MW) 580 1106	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SHORE SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SRI BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AUBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 1553 0 0 0 CHANGES CHANGES CHANGES WAGE URI 12,4 (8 400R) URI	435 0 0 30 0 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 WR-SR Max (MW) 580 1106	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 0.0 28.6 0.0 28.6 0.0 122.4 Min (MW) 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER	TERNATIONAL EX TERNATIONAL EX Line 400KV MANGDECH 1 L28-31c. ALIPURDU MONG PECH. HEPA MALBASE - BINAGG MALBASE -	0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 1553 0 0 0 CHANGES CHANGES CHANGES WAGE URI 12,4 (8 400R) URI	435 0 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 1110 WR-SR Max (MW) 580 1106	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 122.4 Min (MW)	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -2.9 -37.2 -28.6 -0.0 -2.0 -2.0 -2.0 -2.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER NER	1	0 0 0 108 76 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 30 0 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WR-SR Max (MW) 580 1106	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR (HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WITH SHORE SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SRI BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AUBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER NER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 108 76 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 1110 WR-SR Max (MW) 580 1106	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 0.0 28.6 0.0 28.6 0.0 122.4 Min (MW) 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -2.9 -37.2 -28.6 -0.0 -2.0 -2.0 -2.0 -2.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-BURAIYA MALANPUR-BURAIYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B KOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-GHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER NER	TERNATIONAL EX TERNATIONAL EX Line 400KV MANGDECHI 1,283 i.e. ALIPURDU MANGDECHU HEP 400KV TALABINAG MALBASE - BINAGI 1,2283 i.e. ALIPURDU MANGDECHU HEP MANGDECHU HEP 1,283 i.e. ALIPURDU MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e	0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 1553 0 0 1553 0 0 100 100 100 100 100 100 100 100 10	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WW-SR Max (MW) 580 1106 198 23 48	0.0 0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -0.0 -160.6 24.0 -0.0 -0.0 -0.0 -1.0 -0.0 -0.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER NER	TERNATIONAL EX TERNATIONAL EX Line 400KV MANGDECHI 1,283 i.e. ALIPURDU MANGDECHU HEP 400KV TALABINAG MALBASE - BINAGI 1,2283 i.e. ALIPURDU MANGDECHU HEP MANGDECHU HEP 1,283 i.e. ALIPURDU MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e	0 0 0 108 76 0 0 108 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	435 0 0 30 0 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WR-SR Max (MW) 580 1106	0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 -160
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-BURAIYA MALANPUR-BURAIYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B KOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-GHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER NER	TERNATIONAL EX TERNATIONAL EX Line 400KV MANGDECHI 1,283 i.e. ALIPURDU MANGDECHU HEP 400KV TALABINAG MALBASE - BINAGI 1,2283 i.e. ALIPURDU MANGDECHU HEP MANGDECHU HEP 1,283 i.e. ALIPURDU MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e. ALIPURD MANGDECHU HEP 1,284 i.e	0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 1553 0 0 1553 0 0 100 100 100 100 100 100 100 100 10	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WW-SR Max (MW) 580 1106 198 23 48	0.0 0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -0.0 -160.6 24.0 -0.0 -0.0 -0.0 -1.0 -0.0 -0.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-BURAIYA MALANPUR-BURAIYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B KOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-GHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER NER		0 0 0 108 76 0 0 108 76 0 0 0 987 2872 986 0 1553 0 0 1553 0 0 1553 0 0 100 100 100 100 100 100 100 100 10	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WW-SR Max (MW) 580 1106 198 23 48	0.0 0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -0.0 -160.6 24.0 -0.0 -0.0 -0.0 -1.0 -0.0 -0.0 -0.0 -0
14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER NER NER NER NER	TERNATIONAL EX TERNATIONAL EX 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2	0	435 0 0 30 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 1110 WR-SR	0.0 0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0 0 0 0 0 1 1 1 1 1 1 1	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -60.2 -2.9 -37.2 -28.6 -0.0 -0.0 -2.0 -80.5 +ve)/Export(-ve) Energy Exchange (MU) -13.0 23.3 4.3 -0.4 -0.8 -1.0 -0.2
14 15 16 17 18 19 20 12 3 4 4 5 6 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-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-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER NER NER NER NER	1	0	435 0 0 30 0 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 1110 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -0.0 -160.6 24.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -
14 15 16 17 18 19 20 12 3 4 4 5 6 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 8 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER NER NER NER NER	TERNATIONAL EX TERNATIONAL EX 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2	0	435 0 0 30 0 21 0 0 WR-NR 0 0 1831 3045 0 0 0 WR-SR Max (MW) 580 1106 198 23 48 -69 23 426	0.0 0.0 0.0 0.0 0.0 0.4 1.0 0.0 0.0 71.5 24.0 60.2 7.6 0.0 28.6 0.0 0.0 122.4 Min (MW) 0 0 0 0 0 0 1 1 1 1 1 1 1	0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.6 -0.0 -2.5 -0.4 -1.0 -0.0 -1.0 -0.0 -160.6 24.0 -60.2 -2.9 -37.2 -28.6 -0.0 -0.0 -2.0 -80.5 +ve)/Export(-ve) Energy Exchange (MU) -13.0 23.3 4.3 -0.4 -0.8 -1.0 -0.2 -0.2 -0.2