

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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 13th 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 12.01.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12- 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 12th January 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day	Date of Reporting:	13-Jan-2023

A. Power Supply Position at All India and Regional level						
	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	53602	60193	43299	20966	2702	180762
Peak Shortage (MW)	1569	0	500	646	0	2715
Energy Met (MU)	1196	1443	1069	432	49	4189
Hydro Gen (MU)	110	39	104	33	10	296
Wind Gen (MU)	10	99	27	-	-	136
Solar Gen (MU)*	97.53	52.61	131.59	3.60	0.72	286
Energy Shortage (MU)	27.98	0.00	3.80	3.87	0.42	36.07
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58915	70750	56381	21974	2803	205996
Time Of Maximum Demand Met (From NLDC SCADA)	12:27	10:27	10:30	17:44	17:33	10:27
B. Frequency Profile (%)						
Region FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05	1
All India	0.071	0.03	1.19	7.41	8.63	60.04	31.33	ı
C. Power Suppl	y Position in States							
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Γ
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	ı
		day(MW)	Demand(MW)	(MO)	(MU)	(IVIU)	(141 44)	L
	Punjab	8176	0	152.1	45.2	-1.5	78	Ĺ

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum		Schedule	0.000		Shortage
		dav(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Puniab	8176	0	152.1	45.2	-1.5	78	0.00
	Harvana	7891	0	150.8	78.8	-0.6	260	0.00
	Rajasthan	16603	65	301.9	116.7	-0.6	248	16.86
	Delhi	5080	0	84.7	69.7	-2.6	286	0.00
NR	UP	19610	0	361.2	134.8	0.6	513	7.59
	Uttarakhand	2205	75	42.7	31.2	-0.4	247	2.84
	HP	1950	0	35.4	28.9	-0.1	103	0.00
	J&K(UT) & Ladakh(UT)	2889	0	62.6	61.1	-2.6	199	0.69
	Chandigarh	298	0	4.7	5.0	-0.2	30	0.00
	Chhattisgarh	4895	0	105.1	54.5	-0.1	202	0.00
	Gujarat	18872	0	396.0	179.9	-3.2	658	0.00
	MP	17226	0	325.4	192.9	-3.4	563	0.00
WR	Maharashtra	27451	0	549.3	168.7	4.2	680	0.00
	Goa	638	0	12.7	11.8	0.6	63	0.00
	DNHDDPDCL	1233	0	28.2	28.4	-0.2	39	0.00
	AMNSIL	656	0	14.3	6.4	-0.2	264	0.00
	BALCO	521	0	12.4	12.4	0.0	15	0.00
	Andhra Pradesh	11028	0	199.6	92.3	0.0	488	0.00
	Telangana	13247	0	232.6	92.6	-0.2	363	0.00
SR	Karnataka	13765	0	240.8	74.5	2.9	850	3.80
	Kerala	3839	0	75.0	56.8	0.1	324	0.00
	Tamil Nadu	15564	0	312.2	171.8	-0.9	763	0.00
	Puducherry	395	0	8.5	8.7	-0.7	20	0.00
	Bihar	5753	204	100.5	90.5	-2.4	267	0.49
	DVC	3641	0	75.1	-46.7	-0.4	274	0.00
	Jharkhand	1639	92	29.2	22.4	-2.3	90	3.38
ER	Odisha	4746	0	93.6	36.9	-5.0	246	0.00
	West Bengal	7108	0	132.0	1.3	-1.9	283	0.00
	Sikkim	131	0	2.0	2.0	0.0	20	0.00
	Arunachal Pradesh	162	0	2.8	2.8	-0.1	24	0.00
	Assam	1541	0	26.3	19.6	0.6	187	0.40
	Manipur	240	0	3.4	3.3	0.1	30	0.00
NER	Meghalaya	405	0	7.4	6.2	-0.1	38	0.02
	Mizoram	142	0	2.2	1.8	-0.1	22	0.00
	Nagaland	149	0	2.1	2.0	-0.1	31	0.00
	Tripura	228	0	4.4	2.2	-0.2	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.2	-8.4	-22.2
Day Peak (MW)	-239.3	-330.0	-1043.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.2	-202.1	152.7	-160.1	-1.7	0.0
Actual(MU)	206.8	-196.1	158.8	-174.6	-1.0	-6.1
O/D/U/D(MU)	-4.4	6.0	6.0	-14.5	0.7	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6000	12087	8548	2460	484	29578	49
State Sector	9315	11531	6848	3088	119	30900	51
Total	15315	23617	15396	5548	603	60478	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	758	1495	570	641	16	3481	77
Lignite	34	11	51	0	0	96	2
Hydro	110	39	104	33	10	296	6
Nuclear	26	36	67	0	0	129	3
Gas, Naptha & Diesel	25	14	5	0	29	74	2
RES (Wind, Solar, Biomass & Others)	134	154	182	3	1	474	10
Total	1087	1749	980	677	56	4549	100
(I APT(I + + I + + I + + A/A)							
Share of RES in total generation (%)	12.36	8.80	18.58	0.43	1.29	10.42	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	24.89	13.09	35.99	5.34	18.94	19.76	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.068

Disersity 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.

**Note: All generation MU figures are gross

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU) Date of Reporting: 13-Jan-2023

Sl No Impor							Date of Reporting:	13-Jan-2023
	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor			110. or Circuit	Max Import (MV)	Max Export (MW)	Import (MC)	Export (into)	HEI (HE)
	rt/Export of ER (
1		ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2		PUSAULI B/B	- : -	2	296	0.0	7.1 14.9	-7.1
3	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	- 4	0	937 490	0.0	7.6	-14.9 -7.6
- 5	765 kV	GAYA-BALIA	†	0	714	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	i	41	167	0.0	3.0	-3.0
7	400 kV	PUSAULI -ALLAHABAD	î	0	233	0,0	4.1	-4.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	709	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	2	0	590	0.0	11.0	-11.0
10	400 kV	NAUBATPUR-BALIA	2	0	637	0.0	11.9	-11.9
11		BIHARSHARIFF-BALIA	2	0	404	0.0	5.5	-5.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	543	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	436	0.0	6.5 1.2	-6.5
14 15	220 kV 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	+	8	122	0.0	0.0	-1.2 0.0
16		GARWAH-RIHAND	i	25	0	0.5	0.0	0.5
17		KARMANASA-SAHUPURI	i	3	27	0.0	0.0	0.0
18		KARMANASA-CHANDAULI	i	0	29	0.0	0.2	-0.2
					ER-NR	0.5	103.0	-102.5
Impor	rt/Export of ER (With WR)						
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	184	857	0.0	7.2	-7.2
-								
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	536	1176	0.0	8.6	-8.6
3	765 kV	JHARSUGUDA-DURG	2	0	614	0.0	10.9	-10.9
				0			13.5	
4	400 kV	JHARSUGUDA-RAIGARH	4		827	0.0		-13.5
5	400 kV	RANCHI-SIPAT	2	106	403	0.0	4.3	-4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	1	154	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	13	75	0.0	0.1	-0.1
<u></u>					ER-WR	0.0	47.7	-47.7
	rt/Export of ER (
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	15	1240	0.0	3.1	-3.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3490	0.0	57.1	-57.1
4	400 kV	TALCHER-I/C	2	1422	0	29.3	0.0	29.3
5	220 kV	BALIMELA-UPPER-SILERRU	1 1	0	0	0.0	0.0	0.0
3 1	220 K V	DALIMELA-ULLER-SILERRU		ı U	ER-SR		75.0	-75.0
Ton	at/Ermont - PEP (WALNED)			ER-SK	0.0	/3.0	-/5.0
	rt/Export of ER (-	1.55		2.2	0.0	
1		BINAGURI-BONGAIGAON	2	157	0	2.3	0.0	2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	548	0	8.5	0.0	8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	55	0	0.8	0.0	0.8
					ER-NER	11.7	0.0	11.7
Impor	rt/Export of NER	(With NR)						
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.3	0.0	11.3
			•		NER-NR	11.3	0.0	11.3
Impor	rt/Export of WR	(With NR)				****		1110
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2022	0.0	25.0	-25.0
2	HVDC						0.0	
		VINDHYACHAL B/B		46	0	1.2		1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	0	2306	0.0	28.4	-28.4
5	765 kV	GWALIOR-PHAGI	2	0	2013	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	1192	0.0	32.4	-32.4
7	765 kV	GWALIOR-ORAI	1	990	0	16.9	0.0	16.9
8		SATNA-ORAI	1	0	1116	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1447	528	15.9	1.0	14.9
							35.2	
10	765 kV	VINDHYACHAL-VARANASI	4	0	2861	0.0		-35.2
11	400 kV							
		ZERDA-KANKROLI		217	126	1.7	0.0	1.7
12	400 kV	ZERDA -BHINMAL	1	448	282	1.6	0.0	1.6
			1 1 1				0.0	
12 13	400 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1 1 1 2	448 956	282 0	1.6 21.6	0.0	1.6
12 13 14	400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 1 2 1	448	282	1.6	0.0	1.6 21.6
12 13 14 15	400 kV 400 kV 400 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	1 1 2 1	956 264 0	282 0 645 0	1.6 21.6 1.0 0.0	0.0 0.0 3.4 0.0	1.6 21.6 -2.4 0.0
12 13 14 15 16	400 kV 400 kV 400 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA -RANPUR BHANPURA-MORAK	1 1 1 2 1 1	448 956 264 0	282 0 645 0 30	1.6 21.6 1.0 0.0 0.0	0.0 0.0 3.4 0.0 1.8	1.6 21.6 -2.4 0.0 -1.8
12 13 14 15 16 17	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 1 1 1	448 956 264 0 0	282 0 645 0 30	1.6 21.6 1.0 0.0 0.0	0.0 0.0 3.4 0.0 1.8 0.0	1.6 21.6 -2.4 0.0 -1.8
12 13 14 15 16 17 18	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 1 2 1 1 1 1	448 956 264 0 0 136	282 0 645 0 30 0	1.6 21.6 1.0 0.0 0.0 1.0	0.0 0.0 3.4 0.0 1.8 0.0 0.0	1.6 21.6 -2.4 0.0 -1.8 1.0
12 13 14 15 16 17 18 19	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA - BHINMAL VINDHYACHAL - RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR GWALIOR-SAWAI MADHOPUR	1 1 1 1 1 1	448 956 264 0 0 136 101	282 0 645 0 30 0 17	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0	0.0 0.0 3.4 0.0 1.8 0.0 0.0	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0
12 13 14 15 16 17 18	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 1 1	448 956 264 0 0 136	282 0 645 0 30 0 17 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 1 1 1	448 956 264 0 0 136 101	282 0 645 0 30 0 17	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0	0.0 0.0 3.4 0.0 1.8 0.0 0.0	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR)	1 1 1 1 1 1	448 956 264 0 0 136 101 0	282 0 645 0 30 0 17 0 0 WR-NR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 -126.0
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 154 kV 155 kV 165 kV 176 kV 176 kV 176 kV 177 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B	1 1 1 1 1 1 2	448 956 264 0 0 136 101 0	282 0 645 0 30 0 17 0 WR-NR	1.6 21.6 1.0 0.0 0.0 1.0 1.0 0.0 0.0 62.5	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 -126.0
12 13 14 15 16 17 18 19 20 Impor	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV rt/Export of WR HVDC HVDC	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B BHADRAWATI B/B RAJGARB-PUGALUR	1 1 1 1 1 1 2	956 956 264 0 0 136 101 0	282 0 645 0 30 0 17 0 WR-NR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 -126.0
12 13 14 15 16 17 18 19 20 Impor 1 2	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 154 kV 155 kV 165 kV 176 kV 176 kV 176 kV 177 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B	1 1 1 1 1 1 2	448 956 264 0 0 136 101 0	282 0 645 0 30 0 17 0 WR-NR	1.6 21.6 1.0 0.0 0.0 1.0 1.0 0.0 0.0 62.5	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 -126.0
12 13 14 15 16 17 18 19 20 Impor 1 2 3	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	ZERDA - BHINMAL VINDHYACHAL - RHIAND 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	1 1 1 1 1 1 2 2	956 956 264 0 0 136 101 0	282 0 645 0 30 0 17 0 WR-NR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 -126.0
12 13 14 15 16 17 18 19 20 Impor 1 2	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 153 kV 154 kV 155 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAH MADHOPUR RAJGHAT-LALITPUR WHIS SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR	1 1 1 1 1 1 2	448 956 264 0 0 136 101 0 0 0 0 0 0	282 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 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 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4	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	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (WIG SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	1 1 1 1 1 1 2 2	448 956 264 0 0 136 101 0 0 0 630 0 1266	282 0 0 645 0 0 17 0 0 WR-NR 1009 4513 2101 3189 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5	1.6 21.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kV 147 kV 147 kV 157 kV 158 kV 165 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	448 956 264 0 0 136 101 0 0 0 0 0 0	282 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	448 956 264 0 0 136 101 0 0 0 0 0 0 0 0 0 0 0 0 0	282 0 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 188.5 14.6 12.8 40.8 0.0 0.0	1.6 21.6 21.6 2.4 0.0 0.0 1.8 1.0 1.6 0.0 0.0 126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 147 kV 147 kV 147 kV 157 kV 158 kV 165 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	448 956 264 0 0 136 101 0 0 0 0 0 0 0 0 0 0 0 0 0	282 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0 0 76	1.6 21.6 1.0 0.0 1.0 1.6 0.0 0.0 0.0 62.5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV	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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1	448 956 264 0 0 1.36 101 0 0 0 6.30 0 0 1266 0 0	282 0 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1	1.6 21.6 -2.4 0.0 -1.8 1.0 -1.8 1.0 0.0 -1.6 0.0 -126.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.0 0.0 -1.1 -1.1 -1.1 -1.1 -1.1 -1
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV	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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	448 956 264 0 0 1.36 101 0 0 0 6.30 0 0 1266 0 0	282 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0 0 76	1.6 21.6 1.0 0.0 1.0 1.6 0.0 0.0 0.0 62.5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1	1.6 21.6 22.4 0.0 0.18 1.0 1.6 0.0 0.0 126.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 +ve)/Export(-ve)
12 13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV	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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1	448 956 264 0 0 1.36 101 0 0 0 0 0 0 1.266 0 0 1.2666 0 0 1.2666	282 0 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.7 22.3	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 RAIGARH-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	448 956 264 0 136 101 0 0 630 0 1266 0 1 1 CHANGES	282 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0 0 76	1.6 21.6 1.0 0.0 1.0 1.6 0.0 0.0 0.0 62.5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1	1.6 21.6 2.1.6 -2.4 0.0 -1.8 1.0 1.6 0.0 -126.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 +ve)/Export(-ve)
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA MALANPURA-URAIYA WITH SIND SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	448 956 264 0 0 1.36 101 0 0 0 0 0 0 1.266 0 0 1.2666 0 0 1.2668 Name	282 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 2.4 4.0 0.0 -1.8 1.0 1.6 0.0 -126.0 -126.0 -14.6 -72.0 -11.4 40.8 20.3 0.0 0.7 -117.8 +ve/Fxport(-ve) Energy Exchange
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1	448 956 264 0 0 136 101 0 0 0 630 0 1266 0 1 1 CHANGES Name	282 0 0 645 0 30 0 17 0 0 WR-NR 1009 4513 2101 3189 0 0	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.7 22.3	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(1.6 21.6 -2.4 0.0 -1.8 1.0 1.6 0.0 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region Region	1	448 956 264 0 136 1101 0 0 0 136 0 0 1266 0 0 1266 0 1 1 CHANGES Name PURDUAR 1,283 LE. mm MANGBECHU HEP	282 0 645 0 0 17 0 WR-NR 1009 4513 2101 3189 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 22.4 0.0 1.8 1.0 1.6 0.0 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.7 -11.7 -11.7 -1.6 MIN -1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA MALANPURA-URAIYA WITH SIND SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR BHADRAWATI B/B BHADRAWATI B/B RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	1	448 956 264 0 136 1101 0 0 0 136 0 0 1266 0 0 1266 0 1 1 CHANGES Name PURDUAR 1,283 LE. mm MANGBECHU HEP	282 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 2.4 4.0 0.0 -1.8 1.0 1.6 0.0 -126.0 -126.0 -14.6 -72.0 -11.4 40.8 20.3 0.0 0.7 -117.8 +ve/Fxport(-ve) Energy Exchange
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region Region	1	448 956 264 0 0 1.36 101 0 0 0 0 0 0 0 0 0 0 0 1266 0 0 1266 0 0 1 CHANGES Name PURDIAR 1,283 Le. m MANGDECHU HEP	282 0 645 0 0 17 0 WR-NR 1009 4513 2101 3189 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 22.4 0.0 1.8 1.0 1.6 0.0 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.7 -11.7 -11.7 -1.6 MIN -1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WIGH 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	448 956 264 0 136 1101 0 0 630 0 630 0 1266 0 0 1 1 CHANGES Name PURDUAR 1283 Le. mMANGDECHU HEP 1(A. 400M MALBASE.	282 0 0 645 0 0 17 0 WR-NR 17 0 WR-NR 200 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 2.4 0.0 0.0 1.8 1.0 1.6 0.0 1.6 0.0 126.0 -126.0 -14.6 -72.0 1.14 -40.8 20.3 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange MIII 1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region Region	1	448 956 264 0 136 1101 0 0 630 0 630 0 1266 0 0 1 1 CHANGES Name PURDUAR 1283 Le. mMANGDECHU HEP 1(A. 400M MALBASE.	282 0 645 0 0 17 0 WR-NR 1009 4513 2101 3189 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 772.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 22.4 0.0 1.8 1.0 1.6 0.0 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.7 -11.7 -11.7 -1.6 MIN -1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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	448 956 264 0 0 1.36 101 0 0 0 6.30 0 1266 0 1266 0 1 1 CHANGES Name 1270ROVANLEASE ECEPT (from LTUKHA HEP	282 0 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 1.8 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 2.4 0.0 0.1 1.8 1.0 1.6 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange 1.60 2.41
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WIGH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	448 956 264 0 0 1.36 101 0 0 0 6.30 0 1266 0 1266 0 1 1 CHANGES Name 1270ROVANLEASE ECEPT (from LTUKHA HEP	282 0 0 645 0 0 17 0 WR-NR 17 0 WR-NR 200 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 772.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 2.4 0.0 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26,0 -126,0 -14.6 -72.0 1.14 -40.8 20.3 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange MID 1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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	448 956 264 0 0 136 101 0 0 136 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name 1270ROVANLEASE ECEPT (from LTUKHA HEP	282 0 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 1.8 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 2.4 0.0 0.1 1.8 1.0 1.6 0.0 0.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange 1.60 2.41
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-HKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	448 956 264 0 0 136 101 0 0 136 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name 1270ROVANLEASE ECEPT (from LTUKHA HEP	282 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 20.3 0.0 0.7 22.3 Min (MW)	0.0 0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 21.6 2.4 0.0 0.0 -1.8 1.0 0.0 1.6 0.0 -126.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.78 -11.78 -11.78 -11.78 -1.60 -11.8 -1.60 -11.8 -1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	TERNATIONAL EXC 2 2 2 2 2 2 1 1 TERNATIONAL EXC 2 1 1 TERNATIONAL EXC BINAGURE RECEPT OR BINAGURE RECE	448 956 264 0 0 136 101 0 0 136 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name 1270ROVANLEASE ECEPT (from LTUKHA HEP	282 0 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 1.8 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 126.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.7 -11.7 -11.78 -1.60 -1.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MBALANPUR-AURAHYA WISH BR BHADRAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI SELDEM-AMBEWADI IN Region ER ER ER NER	1	448 956 264 0 136 1101 0 0 630 0 630 0 1266 0 0 1 1266 0 1 1 1 CHANGES Name PURDIAR 1283 i.e. m/MANGDECHU HEP 4 (& 400K MALBASE - ECEIPT (from TALA HEP) 11 11	282 0 0 645 0 0 17 0 WR-NR 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR Max (MW) 0 0 12	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import Avg (MW) 0	1.6 21.6 21.6 22.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange MID -1.60 -1.61 -0.40 -0.91
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	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 RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-HKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI ER ER ER	TERNATIONAL EXC 2 2 2 2 2 2 1 1 TERNATIONAL EXC 2 1 1 TERNATIONAL EXC BINAGURE RECEPT OR BINAGURE RECE	448 956 264 0 136 1101 0 0 630 0 630 0 1266 0 0 1 1266 0 1 1 1 CHANGES Name PURDIAR 1283 i.e. m/MANGDECHU HEP 4 (& 400K MALBASE - ECEIPT (from TALA HEP) 11 11	282 0 645 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 0 WR-SR	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 20.3 0.0 0.7 22.3 Min (MW)	0.0 0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW)	1.6 21.6 21.6 21.6 2.4 0.0 0.0 1.8 1.0 1.6 0.0 1.6 0.0 126.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.78 -11.78 -11.78 -11.6 -1.60 -11.60 -11.8
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MBALANPUR-AURAHYA WISH BR BHADRAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI SELDEM-AMBEWADI IN Region ER ER ER NER	1	448 956 264 0 136 1101 0 0 630 0 630 0 1266 0 0 1 1266 0 1 1 1 CHANGES Name PURDIAR 1283 i.e. m/MANGDECHU HEP 4 (& 400K MALBASE - ECEIPT (from TALA HEP) 11 11	282 0 0 645 0 0 17 0 WR-NR 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR Max (MW) 0 0 12	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import Avg (MW) 0	1.6 21.6 21.6 22.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange MID -1.60 -1.61 -0.40 -0.91
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 132 kV 132 kV 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA MALANPURA-URAHYA WIGH SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER	TERNATIONAL EX 2 2 2 2 2 2 2 2 2 1 1 IIIIIIIIIIIIIII	448 956 264 0 0 136 101 0 0 136 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name 1280 0 1448 1448 1448 1448 1448 1448 1448	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW) 0 100	1.6 21.6 2.1.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.7.8 +ve)/Export(-ve) Energy Exchange MII -1.60 -2.41 -4.60 -6.60 -6.60
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 220 kV 132 kV 132 kV rt/Export of WR HVDC HVDC 765 kV 765 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA MBALANPUR-AURAHYA WISH BR BHADRAWATI BB BHADRAWATI BB RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI SELDEM-AMBEWADI IN Region ER ER ER NER	1	448 956 264 0 0 136 101 0 0 136 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name 1280 0 1448 1448 1448 1448 1448 1448 1448	282 0 0 645 0 0 17 0 WR-NR 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR Max (MW) 0 0 12	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import Avg (MW) 0	1.6 21.6 21.6 22.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.0 0.7 -117.8 +ve)/Export(-ve) Energy Exchange MID -1.60 -1.61 -0.40 -0.91
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 132 kV 132 kV 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA MALANPURA-URAIYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 TERNATIONAL EXC Line 800KV MANGDECHHU-ALI ALIPURDUAR RECEBT (IN 600KV MANGDECHHU-ALI ALIPURDUAR RECEBT (IN 600KV MANGDECHHU-ALI BINAGURI I.E. BINAGU	448 956 264 0 0 136 101 0 0 136 101 0 0 0 1266 0 1266 0 1266 0 1266 10 1266 11 1266 11 1266 11 1266 1266	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 12.0 12.8 40.8 40.8 40.8 14.0 17.2 10 10 100 100 100 100 100 100 100 100	1.6 21.6 21.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 -11.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6
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 132 kV 132 kV 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA MALANPURA-URAHYA WIGH SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER	TERNATIONAL EX 2 2 2 2 2 2 2 2 2 1 1 IIIIIIIIIIIIIII	448 956 264 0 0 136 101 0 0 136 101 0 0 0 1266 0 1266 0 1266 0 1266 10 1266 11 1266 11 1266 11 1266 1266	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 1.0 1.6 0.0 0.0 1.6 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 40.8 0.0 0.0 0.0 140.1 Import(Avg (MW) 0 100	1.6 21.6 2.1.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -11.7.8 +ve)/Export(-ve) Energy Exchange MII -1.60 -2.41 -4.60 -6.61
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 132 kV 132 kV 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA MALANPURA-URAIYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 TERNATIONAL EXC Line 800KV MANGDECHHU-ALI ALIPURDUAR RECEBT (IN 600KV MANGDECHHU-ALI ALIPURDUAR RECEBT (IN 600KV MANGDECHHU-ALI BINAGURI I.E. BINAGU	448 956 264 0 0 136 101 0 0 136 101 0 0 0 1266 0 1266 0 1266 0 1266 10 1266 11 1266 11 1266 11 1266 1266	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 12.0 12.8 40.8 40.8 40.8 14.0 17.2 10 10 100 100 100 100 100 100 100 100	1.6 21.6 21.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 -11.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6
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 132 kV 132 kV 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 TERNATIONAL EXC 406W MANGECHHI-ALI 406W MANGECHHI-ALI 406W MANGECHHI-ALI 406W MANGECHHI-ALI 100W THA BERFARA BERFARA 406W THA BERFARA BERFARA 126W GELEPHU-SALAKAT 126W GELEPHU-SALAKAT 126W MAHENDRANAGAR NEPAL MIPORT (FROM BIL 406W DHALKEBAR-MUZA	448 956 264 0 0 1.36 101 0 0 1.36 101 0 0 0 6.30 0 1.266 0 0 1.2666 0 1.2666	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 0 WR-SR Max (MW) 0 200 0 -24 12 -76 94 -348	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 20.3 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 1.8 0.0 0.0 1.8 1.8 0.0 0.0 0.0 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	1.6 21.6 21.6 21.6 2.4 4.0 0.0 1.8 1.0 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.7 0.0 1.6 0.0 1.7 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
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 132 kV 132 kV 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA MALANPURA-URAIYA MALANPURA-URAIYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 TERNATIONAL EXC Line 800KV MANGDECHHU-ALI ALIPURDUAR RECEBT (IN 600KV MANGDECHHU-ALI ALIPURDUAR RECEBT (IN 600KV MANGDECHHU-ALI BINAGURI I.E. BINAGU	448 956 264 0 0 1.36 101 0 0 1.36 101 0 0 0 6.30 0 1.266 0 0 1.2666 0 1.2666	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 188.5 14.6 12.0 12.8 40.8 40.8 40.8 14.0 17.2 10 10 100 100 100 100 100 100 100 100	1.6 21.6 21.6 2.4 0.0 1.8 1.0 1.6 0.0 1.6 0.0 1.26.0 -126.0 -14.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 -11.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 0.0 0.0 0.7 -1.1 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6
12 13 14 15 16 17 18 19 20 1 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA MALANPURA-URAHYA BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER NER NER NER NER ER	TERNATIONAL EX 2 2 2 2 2 2 2 2 1 1 TERNATIONAL EX Line 400A MANGDECHHU-ALI AUFURDURA RECEPT (In- 47-180MV) BRNAGURE INAGURE I BRNAGURE INAGURE I 2- 2- 2- 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- 2- 2- 2-	448 956 264 0 136 1101 0 0 136 101 0 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name PURDUAR 1,283 16. mANOECHU HEP 14 (& 200K MALBASE - EEPT (from TALA HEP 182 (& 220K MALBASE - EEPT (from CHUKHA HEP 1 TANAKPUR(NHPC) HAR) FFARPUR 1&2 ANGLADESH)	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 0 WR-SR Max (MW) 0 200 0 -24 12 -76 94 -348	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 20.3 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import Avg (MW) 0	1.6 21.6 21.6 21.6 2.4 0.0 0.0 1.8 1.0 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.7 0.0 1.6 0.0 1.7 0.0 0.0 1.7 0.0 0.0 1.7 0.0 0.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
12 13 14 15 16 17 18 19 20 1 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 142 kV 155 kV 765 kV 220 kV 250 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 TERNATIONAL EXC 406W MANGECHHI-ALI 406W MANGECHHI-ALI 406W MANGECHHI-ALI 406W MANGECHHI-ALI 100W THA BERFARA BERFARA 406W THA BERFARA BERFARA 126W GELEPHU-SALAKAT 126W GELEPHU-SALAKAT 126W MAHENDRANAGAR NEPAL MIPORT (FROM BIL 406W DHALKEBAR-MUZA	448 956 264 0 136 1101 0 0 136 101 0 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name PURDUAR 1,283 16. mANOECHU HEP 14 (& 200K MALBASE - EEPT (from TALA HEP 182 (& 220K MALBASE - EEPT (from CHUKHA HEP 1 TANAKPUR(NHPC) HAR) FFARPUR 1&2 ANGLADESH)	282 0 0 645 0 0 30 0 17 0 WR-NR 1009 4513 2101 3189 0 0 0 WR-SR Max (MW) 0 200 0 -24 12 -76 94 -348	1.6 21.6 1.0 0.0 0.0 0.0 1.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 20.3 0.0 0.0 21.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 1.8 0.0 0.0 1.8 1.8 0.0 0.0 0.0 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	1.6 21.6 21.6 21.6 2.4 4.0 0.0 1.8 1.0 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.7 0.0 1.6 0.0 1.7 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
12 13 14 15 16 17 18 19 20 1 12 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 155 kV 15	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA MALANPURA-URAHYA BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER NER NER NER NER ER	TERNATIONAL EX 2 2 2 2 2 2 2 2 1 1 TERNATIONAL EX Line 400A MANGDECHHU-ALI AUFURDURA RECEPT (In- 47-180MV) BRNAGURE INAGURE I BRNAGURE INAGURE I 2- 2- 2- 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- 2- 2- 2-	448 956 264 0 136 1101 0 0 136 101 0 0 0 630 0 1266 0 0 1266 0 1 1 CHANGES Name PURDUAR 1,283 16. mANOECHU HEP 14 (& 200K MALBASE - EEPT (from TALA HEP 182 (& 220K MALBASE - EEPT (from CHUKHA HEP 1 TANAKPUR(NHPC) HAR) FFARPUR 1&2 ANGLADESH)	282 0 0 645 0 0 17 0 0 WR-NR 1009 4513 2101 3189 0 0 76 WR-SR Max (MW) 0 200 0 -24 12 -76 94 -348	1.6 21.6 1.0 0.0 0.0 1.0 1.0 0.0 1.6 0.0 0.0 62.5 0.0 0.0 1.4 0.0 0.0 1.4 0.0 0.7 22.3 Min (MW)	0.0 0.0 3.4 0.0 1.8 0.0 0.0 0.0 0.0 0.0 188.5 14.6 72.0 12.8 40.8 0.0 0.0 0.0 140.1 Import Avg (MW) 0	1.6 21.6 21.6 2.4 0.0 0.0 1.8 1.0 1.6 0.0 0.0 126.0 -126.0 -126.0 -114.6 -72.0 -11.4 -40.8 20.3 0.0 0.7 -117.8 -+ve)/Export(-ve) Energy Exchange (MI) -1.60 -60 -632 -6.52