

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd 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 22.01.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22- 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 22nd 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:	23-Jan-2023
A. Power Supply Position at All India and Regional level		

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)	50720	55575	39584	20251	2629	168759
Peak Shortage (MW)	83	0	0	255	0	338
Energy Met (MU)	1128	1383	1024	423	47	4005
Hydro Gen (MU)	107	47	67	27	9	255
Wind Gen (MU)	31	79	62		-	172
Solar Gen (MU)*	86.95	53.27	114.37	2.32	0.79	258
Energy Shortage (MU)	0.41	0.00	0.00	2.05	0.00	2.46
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59017	67578	54499	20919	2707	201944
Fime Of Maximum Demand Met (From NLDC SCADA)	10:13	10:49	09:53	18:24	17:48	10:13
B. Frequency Profile (%)						
	. 40.7	40.7 40.0	40.0 40.0	. 40.0	40.0 50.05	. 50.05

B. Frequency P	rofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.075	0.00	0.84	6.20	7.05	64.89	28.06

		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)	(MU)	(MU)	(MU)	(MW)	(MU)
	Puniab	7610	0	148.4	44.4	-1.5	82	0,00
	Harvana	6599	0	129.0	69,9	-0.9	172	0.00
	Rajasthan	17070	0	307.3	109.8	-1.3	202	0.00
	Delhi	4541	0	73.0	65.8	-2.0	242	0.00
NR	UP	17560	0	328.9	84.1	-0.1	311	0.00
	Uttarakhand	2235	0	40.5	29.7	-0.4	96	0.21
	HP	1880	0	33.0	26.8	-0.1	107	0.00
	J&K(UT) & Ladakh(UT)	2974	0	63.9	62.8	-2.9	142	0,20
	Chandigarh	245	0	3.9	4.1	-0.2	36	0.00
	Chhattisgarh	4911	0	106.7	53,9	0.2	202	0.00
	Guiarat	17984	0	368.3	186.2	-5.8	471	0.00
	MP	16234	0	308.3	186.9	0.0	396	0.00
WR	Maharashtra	26356	0	530.1	167.7	-4.3	670	0.00
	Goa	575	0	12.6	11.1	1.1	40	0.00
	DNHDDPDCL	1153	0	27.0	27.1	-0.1	47	0.00
	AMNSIL	752	0	17.2	9,9	0.3	247	0.00
	BALCO	516	0	12.3	12.4	-0.1	8	0.00
	Andhra Pradesh	11158	0	200.4	73.9	-1.3	333	0.00
	Telangana	13019	0	228.9	113.5	-0.4	383	0.00
SR	Karnataka	13361	0	228.8	77.9	-2.1	731	0.00
	Kerala	3460	0	68.2	55.9	0.0	200	0.00
	Tamil Nadu	14558	0	290.3	154.9	0.1	807	0.00
	Puducherry	344	0	7.8	7.8	-0.7	13	0.00
	Bihar	5208	0	93.4	83.1	-1.7	165	0.39
	DVC	3628	0	74.3	-38.4	-0.2	264	0.00
	Jharkhand	1571	56	28.5	21.9	-2.2	43	1.66
ER	Odisha	4955	0	97.3	34.9	-1.5	119	0.00
	West Bengal	6675	0	127.5	-0.8	-2.7	221	0.00
	Sikkim	109	0	1.7	1.9	-0.2	2	0.00
	Arunachal Pradesh	158	0	2.4	2.7	-0.4	34	0.00
	Assam	1499	0	26.1	18.9	0.7	125	0.00
	Manipur	237	0	3.4	3.4	0.0	44	0.00
NER	Meghalaya	373	0	7.1	6.4	-0.1	26	0.00
	Mizoram	129	0	2.2	1.7	-0.1	12	0.00
	Nagaland	151	0	2.2	2.1	-0.1	23	0.00
	Tripura	227	0	3.8	2.4	-0.1	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.0	-10.4	-23.6
Day Peak (MW)	-288.5	-538.8	-1042.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	147.5	-112.4	120.1	-154.5	-0.7	0.0
Actual(MU)	142.1	-103.7	119.0	-163.9	-0.2	-6.7
O/D/U/D(MU)	-5.4	8.7	-1.0	-9.4	0.5	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6628	14051	7348	1595	519	30140	51
State Sector	7235	12903	7068	1790	119	29115	49
Total	13863	26954	14416	3385	638	59255	100
-							

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	754	1354	575	649	13	3345	77
Lignite	28	14	50	0	0	92	2
Hydro	107	47	67	27	9	255	6
Nuclear	26	37	77	0	0	140	3
Gas, Naptha & Diesel	12	6	5	0	31	54	1
RES (Wind, Solar, Biomass & Others)	145	135	199	2	1	482	11
Total	1070	1592	972	678	53	4366	100
Share of RES in total generation (%)	13.50	8.46	20.50	0.34	1.49	11.03	i

Share of RES in total generation (%)	13.50	8.46	20.50	0.34	1.49	11.03
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	25.90	13.72	35.21	4.32	17.51	20.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.040

Dased United Plant Definants

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.

**Note: All generation MU figures are gross

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 23-Jan-2023

Sl No Voltage Level Import/Export of ER						Date of Reporting:	23-Jan-2023
	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Limport/Export of ER		No. of Circuit	max import (MW)	max export (MW)	import (MU)	Export (MU)	NEI (MU)
					0.0	0.0	
1 HVDC 2 HVDC	ALIPURDUAR-AGRA PUSAULI B/B	<u> </u>	0	0 296	0.0	0.0 7.3	0.0 -7.3
3 765 kV	GAYA-VARANASI	2	0	644	0.0	10.5	-/.3
4 765 kV	SASARAM-FATEHPUR	i	0	440	0.0	8.3	-8.3
5 765 kV	GAYA-BALIA	1	0	655	0.0	10.5	-10.5
6 400 kV	PUSAULI-VARANASI	 	0	201	0.0	4.1	-4.1
7 400 kV 8 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	2	0	173 633	0.0	3.1 8.4	-3.1 -8.4
9 400 kV	PATNA-BALIA	2	Ö	624	0.0	12.4	-12.4
10 400 kV	NAUBATPUR-BALIA	2	0	673	0.0	13.4	-13.4
11 400 kV	BIHARSHARIFF-BALIA	2	0	391	0.0	6.5 7.9	-6.5
12 400 kV 13 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2	0	471 308	0.0	4.7	-7.9 -4.7
14 220 kV	SAHUPURI-KARAMNASA	1	0	117	0.0	1.3	-1.3
15 132 kV	NAGAR UNTARI-RIHAND	i	0	0	0.0	0.0	0.0
16 132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17 132 kV	KARMANASA-SAHUPURI	1	3	0	0.0	0.0	0.0
18 132 kV	KARMANASA-CHANDAULI	· · · · · · · · · · · · · · · · · · ·		ER-NR	0.4	98.3	-97.9
Import/Export of ER	(With WR)			ER-M)	V. 1	70.3	-9/.9
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4	633	496	0.6	0.0	0.6
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	450	788	0.0	4.6	-4.6
3 765 kV	JHARSUGUDA-DURG	2	0	458	0.0	9.0	-9.0
4 400 kV	JHARSUGUDA-RAIGARH	4	0	616	0.0	10.4	-10.4
						2.2	
5 400 kV	RANCHI-SIPAT	2	88	266	0.0		-2.2
6 220 kV	BUDHIPADAR-RAIGARH	1	0	187	0.0	3.1	-3.1
7 220 kV	BUDHIPADAR-KORBA	2	40	121	0.0	1.1	-1.1
· ·	•			ER-WR	0.6	30.4	-29.8
Import/Export of ER	(With SR)			24x 11 K	V.V		-27.0
1 HVDC	JEYPORE-GAZUWAKA B/B	2	0	651	0.0	15.0	-15.0
2 HVDC	TALCHER-KOLAR BIPOLE	2.	0	1983	0.0	37.4	-37.4
3 765 kV	ANGUL-SRIKAKULAM	2.	0	2620	0.0	46.2	-46.2
4 400 kV	TALCHER-I/C	2	651	266	6.5	0.0	6.5
5 220 kV	BALIMELA-UPPER-SILERRU	ī	0.51	0	0.0	0.0	0.0
				ER-SR	0.0	98.6	-98.6
Import/Export of ER	(With NER)			011	0.0		, 3.0
1 400 kV	BINAGURI-BONGAIGAON	2	214	17	1.9	0.0	1.9
2 400 kV	ALIPURDUAR-BONGAIGAON	2	761	0	8.0	0.0	8.0
3 220 kV	ALIPURDUAR-SALAKATI	2	68	Ŏ	0.8	0.0	0.8
	The Carbon Committee	•		ER-NER	10.8	0.0	10.8
Import/Export of NE	R (With NR)				10.0		10.0
1 HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.2	0.0	11.2
				NER-NR	11.2	0.0	11.2
Import/Export of WI	(With NR)				****		****
1 HVDC	CHAMPA-KURUKSHETRA	2	0	1009	0.0	23.2	-23.2
2 HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3 HVDC	MUNDRA-MOHINDERGARH	2	0	Ö	0.0	0.0	0.0
4 765 kV	GWALIOR-AGRA	2	48	1911	0.0	19.8	-19.8
5 765 kV	GWALIOR-PHAGI	2	0	1878	0.0	31.9	-31.9
6 765 kV	JABALPUR-ORAI	2	Ŏ	830	0.0	23.0	-23.0
7 765 kV	GWALIOR-ORAI	1	963	0	17.4	0.0	17.4
8 765 kV	SATNA-ORAI	î	0	911	0.0	17.9	-17.9
9 765 kV	BANASKANTHA-CHITORGARH	2	1846	0	22.0	0.0	22.0
10 765 kV	VINDHYACHAL-VARANASI	7	0	2124	0.0	32.1	-32.1
11 400 kV	ZERDA-KANKROLI	1	296	0	2.7	0.0	2.7
12 400 kV	ZERDA-BHINMAL	+	386	26	3.2	0.0	3.2
13 400 kV	VINDHYACHAL -RIHAND	+	960	0	21.8	0.0	21.8
	VINDITACIAL -KIRAND			U	21.0	1.8	-0.7
	DADD CHILLAT DUD	2		271	11		
14 400 kV	RAPP-SHUJALPUR	2	267	371	1.1		0.0
15 220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
15 220 kV 16 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	2 1 1	0	0 30	0.0	0.0 1.6	-1.6
15 220 kV 16 220 kV 17 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 1 1	0 0 118	0 30 0	0.0 0.0 1.1	0.0 1.6 0.0	-1.6 1.1
15 220 kV 16 220 kV 17 220 kV 18 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	2 1 1 1 1	0 0 118 87	0 30 0 0	0.0 0.0 1.1 1.6	0.0 1.6 0.0 0.0	-1.6 1.1 1.6
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1 1 1 1 1 1	0 0 118 87 0	0 30 0 0	0.0 0.0 1.1 1.6 0.0	0.0 1.6 0.0 0.0 0.0	-1.6 1.1 1.6 0.0
15 220 kV 16 220 kV 17 220 kV 18 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 1	0 0 118 87	0 30 0 0 0	0.0 0.0 1.1 1.6 0.0	0.0 1.6 0.0 0.0 0.0 0.0	-1.6 1.1 1.6 0.0
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 1 1 1	0 0 118 87 0	0 30 0 0	0.0 0.0 1.1 1.6 0.0	0.0 1.6 0.0 0.0 0.0	-1.6 1.1 1.6 0.0
15	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR)	1 1 1 1 1 1	0 0 118 87 0	0 30 0 0 0 0 WR-NR	0.0 0.0 1.1 1.6 0.0 0.0 83.1	0.0 1.6 0.0 0.0 0.0 0.0 151.3	-1.6 1.1 1.6 0.0 0.0 -68.2
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV Import/Export of WE 1 HVDC HVDC HVDC 1 HVDC 16 16 16 17 17 17 17 17	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	0 0 118 87 0 0	0 30 0 0 0 0 WR-NR	0.0 0.0 1.1 1.6 0.0 0.0 83.1	0.0 1.6 0.0 0.0 0.0 0.0 151.3	-1.6 1.1 1.6 0.0 0.0 -68.2
15	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADBAWATI B/B RAIGARI-PUGALUR	1 1 1 1 1 1 2	0 0 1118 87 0 0	0 30 0 0 0 0 WR-NR	0.0 0.0 1.1 1.6 0.0 0.0 83.1	0.0 1.6 0.0 0.0 0.0 0.0 151.3	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3
15	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAJGARI-PUGALUR SOLAPUR-RAJCHUR	1 1 1 1 1 1 2	0 0 118 87 0 0	0 30 0 0 0 0 WR-NR 1012 3503 1293	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1
15	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAJGARI-PUGALUR SOLAPUR-RAJCHUR WARDHA-NIZAMABAD	1 1 1 1 1 1 2	0 0 1118 87 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV	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-RUDGI	1 1 1 1 1 1 2 2 2 2 2 2	0 0 118 87 0 0 0 1202 0 1399	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-RUGGI KOLHAPUR-RUGGI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	0 0 118 87 0 0 0 1202 0 1399 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 22.9 0.0
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMBAD 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	0 0 118 87 0 0 0 1202 0 1399	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 0.0 0.0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 22.9 0.0
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-RUGGI KOLHAPUR-RUGGI	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	0 0 118 87 0 0 0 304 0 1202 0 1399 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 1.5	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 0.0 1.5
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUKOGI KOLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1	0 0 118 87 0 0 0 0 1202 0 1399 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -31.8 22.9 0.0 0.0 1.5 -65.3
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUKOGI KOLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	0 0 118 87 0 0 0 1202 0 1399 0 0 0 CHANGES	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 0.0 0.0 0.0 0.0 0.0 150.5 Import	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 0.0 1.5 -65.3 +ve)/Export(-ve)
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUKOGI KOLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 118 187 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 1.5	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 0.0 1.5 -65.3 +ve)/Export(-ve)
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUKOGI KOLHAPUR-KUKODI PONDA-AMBEWADI IN Region	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1118 87 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 4xg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 31.8 22.9 0.0 1.5 -45.3 +ve//Export(-ve) Energy Exchange
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALASPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDH-ANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI IN	1	0 0 1118 87 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 0.0 0.0 0.0 0.0 0.0 150.5 Import	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 0.0 -65.3 +ve//Export(-ve)
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUKOGI KOLHAPUR-KUKODI PONDA-AMBEWADI IN Region	1	0 0 118 87 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 4xg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 31.8 22.9 0.0 1.5 -45.3 +ve//Export(-ve) Energy Exchange
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUKOGI KOLHAPUR-KUKODI PONDA-AMBEWADI IN Region	1	0 0 118 188 87 0 0 304 0 1202 0 1309 0 13399 0 0 CHANGES Name PURDUAR 1,28 3 Le. mm AMGGECHU HEP 4 (& 400XY MALEASE-	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 4xg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 31.8 22.9 0.0 1.5 -45.3 +ve//Export(-ve) Energy Exchange
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RIJGHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION REGION	1	0 0 118 87 0 0 304 0 1202 0 1309 0 1309 0 0 0 CHANGES Name PURDIAR I,283 Le. Bin MANGECTIU HEP 47.6 4600 WM MLDSE: EECEIPT (from TALA HEP	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 150.0 150.0 150.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 22.9 0.0 0.0 1.5 -65.3 +ve/Export(-ve) Energy Exchange
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 1 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZ-AMABAD KOIL-HAPUR-RUIGGI KOI-HAPUR-RUIGGI KOI-HAPUR-RUI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 118 87 0 0 304 0 0 1202 0 1399 0 0 CHANGES Name PURDIAR 1,283 i.e. mMANGDEGHU HEP 4 (& 400K MALBASE- ECERT (from TALA HEP)	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 0.0 1.5 22.9 0.0 0.0 1.5 22.9 Min (MW)	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 955.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 0.0 1.5 -65.3 -+ve)/Export(-ve) Energy Exchange MID -2.10
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RIJGHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION REGION	1	0 0 118 87 0 0 304 0 0 1202 0 1399 0 0 CHANGES Name PURDIAR 1,283 i.e. mMANGDEGHU HEP 4 (& 400K MALBASE- ECERT (from TALA HEP)	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 150.0 150.0 150.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 22.9 0.0 0.0 1.5 -65.3 +ve/Export(-ve) Energy Exchange
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMBAD KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI ROJEM-AMBEWADI IN Region ER ER	TERNATIONAL EX Line BORY MANGECHER OF THE STREET OF THE	0 0 118 87 0 0 304 0 1202 0 1202 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 WR-SR Max (MW) 0	0.0 0.0 1.1 1.6 0.0 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 1.5 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 31.8 -22.9 0.0 0.0 1.5 -65.3 -ve)/Export(-ve) Energy Exchange MID -2.10 0.56
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZ-AMABAD KOIL-HAPUR-RUIGGI KOI-HAPUR-RUIGGI KOI-HAPUR-RUI	1	0 0 118 87 0 0 304 0 1202 0 1202 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 0.0 1.5 22.9 0.0 0.0 1.5 22.9 Min (MW)	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 955.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange (MII) -2.10
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMBAD KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI ROJEM-AMBEWADI IN Region ER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC 2 1 1 TERNATIONAL EXC BOOKY MANGDECHHU-ALI ALIPURDUAR RECEBT (IN BOOKY MANGDECHHU-ALI BINAGURI 12, BINAGURI 12, BINAGURI 14, BIRPARA RE 152KV GELEPHU-SALAKAI	0 0 118 87 0 0 304 0 1202 0 1202 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 WR-SR Max (MW) 0	0.0 0.0 1.1 1.6 0.0 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 1.5 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 31.8 -22.9 0.0 0.0 1.5 -65.3 -ve)/Export(-ve) Energy Exchange MID -2.10 0.56
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMBAD KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI ROJEM-AMBEWADI IN Region ER ER	TERNATIONAL EX Line BORY MANGECHER OF THE STREET OF THE	0 0 118 87 0 0 304 0 1202 0 1202 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 WR-SR Max (MW) 0	0.0 0.0 1.1 1.6 0.0 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 1.5 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 31.8 -22.9 0.0 0.0 1.5 -65.3 -ve)/Export(-ve) Energy Exchange MID -2.10 0.56
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-RUDGI KOLHAPUR-RUDGI ROHAPUR-RUDGI ROHAPUR-RUDGI ROHAPUR-RUDGI FONDA-AMBEWADI IN Region ER ER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC 2 1 1 TERNATIONAL EXC BOOKY MANGDECHHU-ALI ALIPURDUAR RECEBT (IN BOOKY MANGDECHHU-ALI BINAGURI 12, BINAGURI 12, BINAGURI 14, BIRPARA RE 152KV GELEPHU-SALAKAI	0 0 118 87 0 0 304 0 1202 0 1202 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 WR-SR WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 222.9 0.0 0.0 1.5 29.9 Min (MW) 0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -31.8 -22.9 0.0 0.0 -65.3 +ve/Export(-ve) Energy Exchange (MID) -2.10 0.56 -1.99
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI ROHA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER	1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	0 0 118 87 0 0 1304 0 0 1202 0 1399 0 0 0 CHANGES Name PURDUAR 1,283 14- 0 0 0 CHANGES Name FURDUAR 1,284 14- FURDUAR 1,284 14- FURDUAR 1,284 14- FURDUAR 1,285 14- FURDUAR 1,	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 2.5 5.5 0.0 0.0 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 55.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 22.9 0.0 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange (MI) -2.10 0.56 -1.99
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-RUDGI KOLHAPUR-RUDGI ROHAPUR-RUDGI ROHAPUR-RUDGI ROHAPUR-RUDGI FONDA-AMBEWADI IN Region ER ER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC 2 1 1 TERNATIONAL EXC BOOKY MANGDECHHU-ALI ALIPURDUAR RECEBT (IN BOOKY MANGDECHHU-ALI BINAGURI 12, BINAGURI 12, BINAGURI 14, BIRPARA RE 152KV GELEPHU-SALAKAI	0 0 118 87 0 0 1304 0 0 1202 0 1399 0 0 0 CHANGES Name PURDUAR 1,283 14- 0 0 0 CHANGES Name FURDUAR 1,284 14- FURDUAR 1,284 14- FURDUAR 1,284 14- FURDUAR 1,285 14- FURDUAR 1,	0 30 0 0 0 WR-NR 1012 3503 1293 2685 0 0 WR-SR WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 5.5 0.0 222.9 0.0 0.0 1.5 29.9 Min (MW) 0	0.0 1.6 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -31.8 -22.9 0.0 0.0 -68.3 +ve/Export(-ve) Energy Exchange (MID) -2.10 0.56 -1.99
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 20 132 kV 20 152 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV State	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-RICHUR KOLHAPUR-RIDGI KOLHAPUR-RIDGI KOLHAPUR-RIDGI KOLHAPUR-RIDGI ROJEA-AMBEWADI IN Region ER ER ER NER NER	TERNATIONAL EX 2 2 2 2 2 2 2 2 2 1 1 IIIIIIIIIIIIIII	0 0 118 87 0 0 304 0 1202 0 1399 0 0 0 CHANGES Name PURDIAR 1283 1c. mMANGDECHU HEP 4 (8 400K) MALBASE- CEIPT (from LTUKHA HEP) 182 (8 220K) MALBASE-	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 82 WR-SR Max (MW) 0 175 0	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 0.0 1.5 22.9 0.0 0.0 1.5 29.9 Min (MW)	0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange (MI) -2.10 0.56 -1.99 -42 -6.68
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV Import/Export of WF 1 HVDC 2 HVDC 2 HVDC 3 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI ROHA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER	1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2	0 0 118 87 0 0 304 0 1202 0 1399 0 0 0 CHANGES Name PURDIAR 1283 1c. mMANGDECHU HEP 4 (8 400K) MALBASE- CEIPT (from LTUKHA HEP) 182 (8 220K) MALBASE-	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 2.5 5.5 0.0 0.0 22.9 0.0 0.0 1.5 29.9	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 55.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 22.9 0.0 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange (MI) -2.10 0.56 -1.99
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15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 20 132 kV 20 152 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV State	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-RICHUR KOLHAPUR-RIDGI KOLHAPUR-RIDGI KOLHAPUR-RIDGI KOLHAPUR-RIDGI ROJEA-AMBEWADI IN Region ER ER ER NER NER	TERNATIONAL EX 2 2 2 2 2 2 2 2 2 1 1 IIIIIIIIIIIIIII	0 0 118 87 0 0 118 87 0 0 0 1202 0 1202 0 0 0 0 0 CHANGES Name 0 0 0 CHANGES Name 1404 0 0 0 0 CHANGES Name 1404 0 0 0 0 CHANGES Name 1404 0 0 0 0 CHANGES 1404 0 0 0 0 0 0 0 CHANGES 1404 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 82 WR-SR Max (MW) 0 175 0 22	0.0 0.0 1.1 1.6 0.0 0.0 83.1 0.0 0.0 5.5 0.0 0.0 1.5 22.9 0.0 0.0 1.5 29.9 Min (MW)	0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange (MI) -2.10 0.56 -1.99 -42 -6.68
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 20 132 kV 20 152 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV State	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADBAWATI B/B RNIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI ROLHAPUR-RUIGGI ROLHAPUR-RUIG	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC Line 800K MANGDECHHUALI ALIPURDIAR RECEBT (IN 600KY MANGDECHHUALI BINAGUER IS 600KY MANGDECHHUALI BINAGUER IS 600KY MANGDECHHUALI BINAGUER IS 600KY MANGDECHHUALI 10 11 11 11 11 11 11 11 11 11 11 11 11	0 0 118 87 0 0 118 87 0 0 0 1202 0 1202 0 0 0 0 0 CHANGES Name 0 0 0 CHANGES Name 1404 0 0 0 0 CHANGES Name 1404 0 0 0 0 CHANGES Name 1404 0 0 0 0 CHANGES 1404 0 0 0 0 0 0 0 CHANGES 1404 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR Max (MW) 0 175 0 22 4	0.0 0.0 1.1 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.5 0.0 0.0	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange All 1 -2.10 0.56 -1.99 0.42 0.08 -1.55 -1.81
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 20 132 kV 20 152 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV State	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI IN Region ER ER ER ER ER ER ER ER	TI II II II II II II II II II	0 0 118 87 0 0 304 0 0 1202 0 1399 0 0 1399 0 0 0 CHANGES Name PURDUAR 128 3 Le. mm MANGBECHU HEP 4 (& 400KV MALBASE- ECERTI (from TALA HEP) 13 (2 329KV MALBASE- TANAKPUR(NHPC) HAR)	0 30 0 0 0 0 WR-NR 1012 3503 1293 1293 2685 0 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 0.0 5.5 0.0 0.0 22.9 0.0 0.0 1.5 29.9 Min (MW)	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 -1.1 -1.6 -1.0 -1.0 -0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 -0.0 -1.5 -65.3 -+ve/Export(-ve) -2.10 -2.10 -2.10 -3.5 -3.5 -3.1.8 -3
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 20 132 kV 20 152 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV State	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADBAWATI B/B RNIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI KOLHAPUR-RUIGGI ROLHAPUR-RUIGGI ROLHAPUR-RUIG	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC Line 800K MANGDECHHUALI ALIPURDIAR RECEBT (IN 600KY MANGDECHHUALI BINAGUER IS 600KY MANGDECHHUALI BINAGUER IS 600KY MANGDECHHUALI BINAGUER IS 600KY MANGDECHHUALI 10 11 11 11 11 11 11 11 11 11 11 11 11	0 0 118 87 0 0 304 0 0 1202 0 1399 0 0 1399 0 0 0 CHANGES Name PURDUAR 128 3 Le. mm MANGBECHU HEP 4 (& 400KV MALBASE- ECERTI (from TALA HEP) 13 (2 329KV MALBASE- TANAKPUR(NHPC) HAR)	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 0 WR-SR Max (MW) 0 175 22 4 -73	0.0 0.0 1.1 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.5 0.0 0.0	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 1.5 -65.3 +ve)/Export(-ve) Energy Exchange All 1 -2.10 0.56 -1.99 0.42 0.08 -1.55 -1.81
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 14 4 765 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV 8 220 kV 8 220 kV 8 8 240 kV 8 2	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJCHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZ-AMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI IN Region ER ER ER ER ER ER	TERNATIONAL EX 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EX Line 400KV MANODECHHU-ALI 400KV MANODECHHU-ALI BINAGURI 152kV MANODECHHU-BINAGURI 152kV MAHENDRANAGAR 152kV MAHENDRANAGAR NEPAL IMPORT (FROM BIN 400KV DHALKEBAR-MUZA BHERAMARA BB HVDC (B	0 0 118 87 0 118 87 0 0 1304 0 1202 0 1399 0 0 0 CHANGES Name PURDIAR 1,283 i.e. mMANGDEGHU HEP 4 (& 400K MALBASE- ECEIPT (from TALA HEP) 13 (\$ 230K MALBASE- CEIPT (from CHUKHA HEP) 11 11 11 11 11 11 11 11 11 11 11 11 11	0 30 0 0 0 0 WR-NR 1012 3503 1293 2685 0 0 82 WR-SR Max (MW) 0 175 0 22 4 -73 -95 -371	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 0.0 5.5 0.0 0.0 0.0 1.5 22.9 0.0 0.0 1.5 22.9 0.0 1.5 22.9 0.0 1.5 22.9 22.9 22.9 22.9 22.9 22.9 22.9 22	0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 1.1 1.6 0.0 0.0 -68.2 -10.5 -44.3 -3.1 -31.8 -22.9 0.0 1.5 -65.3 -+ve)/Export(-ve) Energy Exchange MI -2.10 0.56 -1.99 0.42 0.08 -1.55 -1.81 -7.63
15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 20 132 kV 20 152 kV 4 765 kV 4 765 kV 5 400 kV 6 220 kV 7 220 kV State	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI IN Region ER ER ER ER ER ER ER ER	TI II II II II II II II II II	0 0 118 87 0 118 87 0 0 1304 0 1202 0 1399 0 0 0 CHANGES Name PURDIAR 1,283 i.e. mMANGDEGHU HEP 4 (& 400K MALBASE- ECEIPT (from TALA HEP) 13 (\$ 230K MALBASE- CEIPT (from CHUKHA HEP) 11 11 11 11 11 11 11 11 11 11 11 11 11	0 30 0 0 0 0 WR-NR 1012 3503 1293 1293 2685 0 0 0 82 WR-SR	0.0 0.0 1.1 1.6 0.0 0.0 0.0 83.1 0.0 0.0 0.0 5.5 0.0 0.0 22.9 0.0 0.0 1.5 29.9 Min (MW)	0.0 1.6 0.0 0.0 0.0 0.0 0.0 151.3 10.5 44.3 8.6 31.8 0.0 0.0 0.0 95.2 Import(Avg (MW)	-1.6 -1.1 -1.6 -1.0 -1.0 -0.0 -68.2 -10.5 -44.3 -3.1 -3.1.8 -22.9 -0.0 -0.0 -1.5 -65.3 -+ve/Export(-ve) -2.10 -2.10 -2.10 -3.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4.5 -4