

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 14th Mar 2020

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
- 2. 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 13.03.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-मार्च-2020 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 13th Mar 2020, is available at the NLDC website.

धन्यवाद,

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

Report for previous day Date of Reporting 14-Mar-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	37332	47331	44814	17470	2431	149378
Peak Shortage (MW)	576	0	0	0	44	620
Energy Met (MU)	772	1136	1125	359	42	3434
Hydro Gen (MU)	143	51	88	33	7	321
Wind Gen (MU)	8	38	33	-	-	78
Solar Gen (MU)*	34.32	31.50	94.50	1.29	0.04	162
Energy Shortage (MU)	9.0	0.0	0.0	0.0	0.7	10
Maximum Demand Met during the day (MW) & time	39282	53728	52705	18648	2510	160136
(from NLDC SCADA)	19:21	11:06	09:38	18:34	18:27	09:36

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.029	0.00	0.00	3.24	3.24	78.28	18.48

C. Power Supply Position in States

Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU
	Punjab	4630	0	92.5	64.1	-0.5	179	0.0
	Haryana	5383	0	100.7	93.1	0.6	206	0.0
	Rajasthan	11435	483	206.4	66.6	-1.3	451	0.0
	Delhi	3493	0	61.1	49.5	-0.7	157	0.0
NR	UP	11000	415	207.0	100.4	0.1	657	0.0
	Uttarakhand	1643	0	33.2	15.5	1.1	222	0.0
	HP	1373	0	23.8	18.1	-1.7	33	0.3
	J&K(UT) and Ladakh(UT)	2304	576	44.4	38.6	-1.8	257	8.7
	Chandigarh	213	0	3.3	3.5	-0.2	28	0.0
	Chhattisgarh	3517	0	77.5	25.8	-0.8	298	0.0
	Gujarat	15431	0	331.2	91.2	3.2	571	0.0
	MP	10611	0	203.6	104.3	-1.7	388	0.0
WR	Maharashtra	23217	0	482.7	143.7	-1.4	471	0.0
WK	Goa	467	0	10.3	10.1	-0.3	54	0.0
	DD	328	0	7.4	7.0	0.4	38	0.0
	DNH	798	0	18.6	18.6	0.0	42	0.0
	Essar steel	754	0	4.8	4.9	-0.1	296	0.0
	Andhra Pradesh	9589	0	200.0	86.2	1.1	522	0.0
	Telangana	11719	0	233.4	139.3	-0.4	1142	0.0
SR	Karnataka	13030	0	259.2	84.7	1.4	536	0.0
3N	Kerala	3975	0	82.5	63.7	1.3	261	0.0
	Tamil Nadu	15392	0	341.5	179.9	-0.9	459	0.0
	Puducherry	396	0	8.3	8.5	-0.2	33	0.0
	Bihar	3625	0	66.9	60.7	-0.6	200	0.0
	DVC	2853	0	59.2	-36.6	0.5	300	0.0
ER	Jharkhand	1214	0	23.3	16.2	0.2	100	0.0
EK	Odisha	4041	0	76.4	0.5	0.1	274	0.0
	West Bengal	7336	0	132.2	37.0	1.4	360	0.0
	Sikkim	116	0	1.4	1.8	-0.4	20	0.0
	Arunachal Pradesh	125	2	2.1	2.8	-0.8	5	0.0
	Assam	1421	18	23.6	20.4	-0.2	104	0.5
	Manipur	178	3	2.7	2.5	0.2	25	0.0
NER	Meghalaya	381	0	5.4	5.0	-0.4	56	0.1
	Mizoram	93	1	1.7	1.6	-0.1	18	0.0
	Nagaland	124	2	2.2	2.1	0.0	2	0.0
	Tripura	247	0	4.0	2.9	-0.3	19	0.0

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

	,		
	Bhutan	Nepal	Bangladesh
Actual(MU)	2.2	-9.7	-9.1
Day peak (MW)	323.5	-533.0	-765.0

 $E.\ Import/export\ By\ Regions (in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)$

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	177.2	-247.5	195.3	-133.6	8.1	-0.5
Actual(MU)	166.0	-248.5	211.3	-141.4	6.1	-6.6
O/D/U/D(MU)	-11.3	-1.0	16.0	-7.8	-2.1	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5376	15668	4802	1060	727	27632
State Sector	21475	16552	8735	5302	11	52075
Total	26851	32219	13537	6362	738	79707

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	342	1154	550	491	11	2547
Lignite	22	13	52	0	0	87
Hydro	143	51	88	33	7	321
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	25	62	17	0	22	127
RES (Wind, Solar, Biomass & Others)	69	76	166	1	0	312
Total	624	1392	918	525	41	3500

Share of RES in total generation (%)	10.99	5.45	18.10	0.25	0.10	8.91
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	37.66	11.74	32.59	6.46	17.60	21.11

H. All India Demand Diversity Factor

11 III India Demand Diversity Tuctor	
Based on Regional Max Demands	1.042
Based on State Max Demands	1.077

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

 $[\]textbf{*Source} : \textbf{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: 14-Mar-2020 |
| Circuit | Max Import (MWV) | Max Export (MWV) | Import (MUV) | Export (MUV) | NET (MU) |

_							Date of Reporting:	14-Mar-2020
Impo	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	ort/Export of ER	(With NR)		1			I.	
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
2		PUSAULI B/B	S/C	0	251	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	D/C	0	887	0.0	10.6	-10.6
4	765 kV	SASARAM-FATEHPUR	S/C	0	524	0.0	6.4	-6.4
5	765 kV	GAYA-BALIA	S/C	0	361	0.0	6.0	-6.0
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	129	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	4	596	0.0	7.1	-7.1
9	400 kV	PATNA-BALIA	Q/C	0	984	0.0	15.5	-15.5
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	341	0.0	4.4	-4.4
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	323	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	D/C	95	342	0.0	2.2	-2.2
13	220 kV	PUSAULI-SAHUPURI	S/C	0	133	0.0	2.6	-2.6
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.2	0.0	0.2
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	0.2	72.2	-72.0
Impo	ort/Export of ER	(With WR)	1	1			1	
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1310	0	22.8	0.0	22.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	242	614	0.0	5.0	-5.0
3	765 kV	JHARSUGUDA-DURG	D/C	0	232	0.0	3.4	-3.4
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	197	331	0.0	1.8	-1.8
5	400 kV	RANCHI-SIPAT	D/C	138	196	0.0	1.1	-1.1
6	220 kV	BUDHIPADAR-RAIGARH	S/C	15	65	0.0	0.2	-0.2
7		BUDHIPADAR-KORBA	D/C	82	1	0.8	0.0	0.8
-	-20*		1 2,3	1	ER-WR	23.6	11.4	12.2
lmna	ort/Export of ER	(With SR)			EN-WK	23.0	11.4	14.4
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	690	0.0	15.9	-15.9
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	D/C D/C	0	2470 3269	0.0	46.9 69.3	-46.9 -69.3
4		TALCHER-I/C	D/C	257	1039	0.0	7.9	-7.9
5		BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
J	220 RV	D. LIMILLA-OI-FER-OILERRU	310	<u>'</u>	ER-SR	0.0	132.1	-132.1
lmna	ort/Export of ER	(With NER)			EN-3R	0.0	132.1	-132.1
1		BINAGURI-BONGAIGAON	D/C	190	129	1.7	0.0	1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	278	143	2.6	0.0	2.6
3	220 kV	ALIPURDUAR-SALAKATI	D/C	56	43	0.5	0.0	0.5
	220 RV	ALII ONDOAN-OALANATI	D/O	30	ER-NER	4.8	0.0	4.8
lmnc	ort/Export of NER	(With NR)			EI II II	4.0	0.0	4.0
1		BISWANATH CHARIALI-AGRA	-	470	0	11.6	0.0	11.6
<u> </u>	HVDC	BISWANATH CHARIALPAGRA		470	NER-NR	11.6	0.0	11.6
lmnc	ort/Export of WR	(With NR)				11.0	0.0	11.0
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	640	0.0	27.2	-27.2
2	HVDC	V'CHAL B/B	D/C	448	0	10.7	0.0	10.7
3	HVDC	APL -MHG	D/C	0	1080	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	D/C	0	1714	0.0	31.2	-31.2
5	765 kV	PHAGI-GWALIOR	D/C	0	1658	0.0	23.3	-23.3
6	765 kV	JABALPUR-ORAI	D/C	0	649	0.0	22.1	-22.1
7	765 kV	GWALIOR-ORAI	S/C	672	0	10.8	0.0	10.8
8		SATNA-ORAI	S/C	0	1147	0.0	24.4	-24.4
9	765 kV	CHITORGARH-BANASKANTHA	D/C	283	465	0.0	1.3	-1.3
10		ZERDA-KANKROLI	S/C	131	81	1.2	0.0	1.2
11		ZERDA -BHINMAL	S/C	217	243	0.9	0.0	0.9
			S/C	972				
12	400 kV	V'CHAL -RIHAND				22.5	0.0	
12		V'CHAL -RIHAND RAPP-SHUJALPUR			0 345	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	D/C	116	345	0.0	1.1	22.5 -1.1
								22.5
13 14 15	400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	D/C S/C S/C	116 12 0	345 91 155	0.0 0.0 0.0	1.1 1.1 1.8	22.5 -1.1 -1.1 -1.8
13 14 15 16	400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	D/C S/C S/C S/C	116 12 0 117	345 91 155 0	0.0 0.0 0.0 1.5	1.1 1.1 1.8 0.0	22.5 -1.1 -1.1 -1.8 1.5
13 14 15	400 kV 220 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C S/C S/C	116 12 0	345 91 155	0.0 0.0 0.0 1.5 0.8	1.1 1.1 1.8 0.0	22.5 -1.1 -1.1 -1.8 1.5 0.8
13 14 15 16 17	400 kV 220 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	D/C S/C S/C S/C S/C	116 12 0 117 78	345 91 155 0	0.0 0.0 0.0 1.5 0.8	1.1 1.1 1.8 0.0 0.0	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0
13 14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C S/C S/C S/C S/C	116 12 0 117 78	345 91 155 0 0	0.0 0.0 0.0 1.5 0.8	1.1 1.1 1.8 0.0	22.5 -1.1 -1.1 -1.8 1.5 0.8
13 14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C S/C S/C S/C S/C	116 12 0 117 78	345 91 155 0 0	0.0 0.0 0.0 1.5 0.8	1.1 1.1 1.8 0.0 0.0	22.5 -1.1 -1.1 -1.8 1.5 0.8
13 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 MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR)	DIC SIC SIC SIC SIC SIC SIC	116 12 0 117 78 0	345 91 155 0 0 0 WR-NR	0.0 0.0 0.0 1.5 0.8 0.0 48.3	1.1 1.1 1.8 0.0 0.0 0.0 0.0 160.2	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9
13 14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV https://export of WR HVDC HVDC	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B	DIC SIC SIC SIC SIC SIC SIC	116 12 0 117 78 0	345 91 155 0 0 WR-NR	0.0 0.0 0.0 1.5 0.8 0.0 48.3	1.1 1.1 1.8 0.0 0.0 0.0 160.2	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9
13 14 15 16 17 18 Impo	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 240 kV 140 kV 1	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAMPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0	345 91 155 0 0 WR-NR	0.0 0.0 0.0 1.5 0.8 0.0 48.3	1.1 1.1 1.8 0.0 0.0 0.0 160.2	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9
13 14 15 16 17 18 Impo	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 240 kV 140 kV 1	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	DIC SIC SIC SIC SIC SIC SIC SIC DIC	116 12 0 117 78 0	345 91 155 0 0 0 WR-NR 1016 0	0.0 0.0 0.0 1.5 0.8 0.0 48.3	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0	22.5 -1.1 -1.1 -1.8 -1.5 -0.8 -0.0 -111.9 -24.5 -0.0 -44.0
13 14 15 16 17 18 Impo 1 2 3 4	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV PM/Export of WR HVDC HVDC 765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	DIC SIC SIC SIC SIC SIC SIC SIC DIC DIC	116 12 0 117 78 0	345 91 155 0 0 WR-NR 1016 0 2479 3385	0.0 0.0 0.0 1.5 0.8 0.0 48.3	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0	22.5 -1.1 -1.1 -1.8 -1.5 -0.8 -0.0 -111.9 -24.5 -0.0 -44.0 -64.0
13 14 15 16 17 18 Impo 1 2 3 4 5	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI	DIC SIC SIC SIC SIC SIC SIC SIC DIC DIC DIC	116 12 0 117 78 0	345 91 155 0 0 0 WR-NR 1016 0 2479 3385	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1
13 14 15 16 17 18 1 2 3 4 5	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV TVEXPORT OF WR HVDC 765 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAMPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	DIC SIC SIC SIC SIC SIC SIC DIC DIC DIC DIC	116 12 0 117 78 0 0 0 0 0 0 0 754	345 91 155 0 0 WR-NR 1016 0 2479 3385 0	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 200/EXport of WR HVDC 765 kV 765 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	DIC SIC SIC SIC SIC SIC DIC DIC DIC DIC SIC	116 12 0 117 78 0 0 0 0 0 0 754	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 0	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1	1.1 1.1 1.8 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -0.0 -44.0 -64.0 10.1 0.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 200/EXport of WR HVDC 765 kV 765 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	DIC SIC SIC SIC SIC SIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 0.0 11.8
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 200/EXport of WR HVDC 765 kV 765 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	DIC SIC SIC SIC SIC SIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 754	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1	1.1 1.1 1.8 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0	22.5 -1.1 -1.1 -1.8 -1.5 -0.8 -0.0 -111.9 -24.5 -0.0 -44.0 -64.0 -10.1 -1.3 -1.8 -1.22.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 200/EXport of WR HVDC 765 kV 765 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	DIC SIC SIC SIC SIC SIC DIC DIC DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0	22.5 -1.1 -1.8 -1.5 -0.8 -0.0 -111.9 -24.5 -0.0 -44.0 -64.0 -10.1 -1.3 -1.8 -1.22.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHAM	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 1.1 1.1 0.0 0.0 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 0.0 1.3 0.0 133.9	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 0 754 0 0 0 RNATIONAL EXCHANGE Name	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 11.8 11.9	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 0.0 1.3	22.5 -1.1 -1.1 -1.8 -1.5 -0.8 -0.0 -111.9 -24.5 -0.0 -44.0 -64.0 -10.1 -1.3 -1.8 -1.22.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHAM	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 1.1 1.1 0.0 0.0 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 0.0 1.3 0.0 133.9	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SLERU SOL APUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AMBEWADI XELDEM-AMBEWADI Region ER ER	D/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C D/C D/C D/C D/C D	116 12 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHAME NAME SIRPARA RECEIPT 4 x 180)	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.9 Min (MW) 0	1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9	22.5 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	DIC SIC SIC SIC SIC SIC SIC SIC SIC DIC DIC DIC DIC DIC CIC SIC SIC INTEI CHUKA (4 * 84) MANGBECHHU (ALIPURDUAR RE	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHANGE STATE STA	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 1.5 1.1 0.0 0.0 0.0 0.0 0.0 1.8 11.9	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 0.0 44.0 0.0 0.0 1.3 0.0 133.9	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -24.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SLERU SOL APUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AMBEWADI XELDEM-AMBEWADI Region ER ER	DIC SIC SIC SIC SIC SIC SIC SIC SIC DIC DIC DIC DIC DIC CIC SIC SIC INTEI CHUKA (4 * 84) MANGBECHHU (ALIPURDUAR RE	116 12 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHAME NAME SIRPARA RECEIPT 4 x 180)	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.9 Min (MW) 0	1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9	22.5 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER ER	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0 0 0 0 0 8NATIONAL EXCHANGE Name 3 3) BIRPARA RECEIPT 4 x 180) CCEIPT SINAGURI RECEIPT	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.1 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9 Avg (MW) 0 -40	22.5 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 -1.0 -1.0 -1.0 -1.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	DIC SIC SIC SIC SIC SIC SIC SIC SIC DIC DIC DIC DIC DIC CIC SIC SIC INTEI CHUKA (4 * 84) MANGBECHHU (ALIPURDUAR RE	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0 0 0 0 0 8NATIONAL EXCHANGE Name 3 3) BIRPARA RECEIPT 4 x 180) CCEIPT SINAGURI RECEIPT	345 91 155 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.1 0.0 0.0	1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9 Avg (MW) 0	22.5 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -0.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER ER	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHAME NAME NAME SINAGURI RECEIPT SINAGURI RECEIPT	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.1 0.0 0.0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9 Avg (MW) 0 -40	22.5 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 -1.0 -1.0 -1.0
13 14 15 16 17 18 1mpc 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI REGION ER ER ER ER ER ER NER NER	DIC SIC SIC SIC SIC SIC SIC SIC DIC DIC DIC DIC SIC SIC SIC DIC DIC DIC DIC DIC DIC AIPURDUAR RETALA (6 * 170) E 132KV-SALAKAT	116 12 0 117 78 0 0 0 0 0 0 0 0 0 754 0 0 0 0 0 RNATIONAL EXCHAME Name 3 3) BIRPARA RECEIPT 4 x 180) ECEIPT SINAGURI RECEIPT TI - GELEPHU DEOTHANG	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR GES Max (MW) 0 0 120 95	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 133.9 Avg (MW) 0 -40 110 51 -15	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0 -2.6 1.2 -0.4 -0.3
13 14 15 16 17 18 1mpc 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGION ER ER ER ER ER ER	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 117 78 0 0 0 0 0 0 754 0 0 0 0 RNATIONAL EXCHAN 9 Name 3) BIRPARA RECEIPT 4 x 180) ECEIPT II- GELEPHU DEOTHANG (NH)-	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 133.9 Avg (MW) 0 -40 110	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 0.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0 -2.6 1.2 -0.4
13 14 15 16 17 18 1mpc 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ont/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI REGION ER ER ER ER ER ER NER NER	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	345 91 155 0 0 0 WR-NR 1016 0 2479 3385 0 0 72 95 WR-SR GES Max (MW) 0 0 120 95	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 133.9 Avg (MW) 0 -40 110 51 -15	22.5 -1.1 -1.1 -1.8 -1.5 -0.8 -0.0 -111.9 -24.5 -0.0 -44.0 -64.0 -10.1 -1.3 -1.8 -122.0 Energy Exchange (MU) -0.0 -1.0 -1.0 -0.4 -0.4 -0.4
13 14 15 16 17 18 1mpc 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 0rt/Export of WR HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA (WALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER ER ER ER NER NER NER	D/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	116 12 0 117 78 0 0 0 0 0 0 0 0 754 0 0 0 0 0 RNATIONAL EXCHAP Name 33) BIRPARA RECEIPT 4 x 180) CEIPT BINAGURI RECEIPT 1- GELEPHU DEOTHANG (NH)- PO)	345 91 155 0 0 0 WR-NR 1016 0 0 2479 3385 0 0 72 95 WR-SR IGES Max (MW) 0 120 95 22 25 0 -196	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0 0 0 1-5	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 133.9 Avg (MW) 0 -40 110 51 -15 -14	22.5 -1.1 -1.1 -1.8 1.5 0.8 1.5 0.0 -111.9 -24.5 -24.0 -44.0 -64.0 10.1 0.1 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0 -2.6 1.2 -0.4 -0.3 -1.2 -2.6
13 14 15 16 17 18 1mpc 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 0rt/Export of WR HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI REGION ER ER ER ER ER ER ER NER NER	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C S/C S/C S/C INTEL Linu DAGACHU (2 * 6 CHUKA (4 * 84) MANGDECHHU (ALIPURDUAR RE TALA (6 * 170) E 132KV-SALAKAT 132KV-RANGIA- 132KV-RANGIA- 132KV-BHAR - N	116 12 0 117 78 0 117 78 0 0 0 0 0 0 754 0 0 0 0 754 0 0 0 8NATIONAL EXCHANG Name 3 3) BIRPARA RECEIPT 1- GELEPHU DEOTHANG (NH)-PO)	345 91 155 0 0 0 WR-NR 1016 0 102479 3385 0 0 72 95 WR-SR GES Max (MW) 0 120 95 22 25 0	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0 0	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 133.9 Avg (MW) 0 -40 110 51 -15	22.5 -1.1 -1.1 -1.8 1.5 0.8 1.5 0.0 -111.9 -24.5 -64.0 10.1 -64.0 10.1 1.8 -122.0 Energy Exchange (MU) 2.6 1.2 -0.4 -0.3 -1.2
13 14 15 16 17 18 Impo 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 0rt/Export of WR HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA (WALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER ER ER ER NER NER NER	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 0 RNATIONAL EXCHAN 9 Name 3) BIRPARA RECEIPT 14 x 180) ECEIPT II- GELEPHU DEOTHANG (NH)-PO) IEPAL IRPUR -	345 91 155 0 0 0 WR-NR 1016 0 0 2479 3385 0 0 72 95 WR-SR IGES Max (MW) 0 120 95 22 25 0 -196	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0 0 0 1-5	1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 133.9 Avg (MW) 0 -40 110 51 -15 -14	22.5 -1.1 -1.1 -1.8 -1.5 -0.8 -1.1 -1.9 -1.1
13 14 15 16 17 18 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV rot/Export of WR HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV State BHUTAN	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI Region ER ER ER RR RR RR RR RR RR R	DIC SIC SIC SIC SIC SIC SIC SIC SIC SIC S	116 12 0 117 78 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 0 754 0 0 0 8NATIONAL EXCHAN 0 Name 3 3) BIRPARA RECEIPT 4 x 180) ECEIPT TI - GELEPHU DEOTHANG (NH) - PG) LEPAL ARPUR - ECBangladesh)	345 91 155 0 0 0 WR-NR 1016 0 1016 0 72 95 WR-SR 406 0 120 95 22 25 0 -196 -274	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0 0 0 118 0 0 118 0 119 118 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.1 1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9 Avg (MW) 0 -40 110 51 -15 -14 0 -110 -246	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -24.0 -44.0 -64.0 10.1 0.0 -1.3 1.8 -122.0 Energy Exchange (MU) 0.0 -1.0 -2.6 1.2 -0.4 -0.3 -1.2 -2.6 -5.9 -6.5
13 14 15 16 17 18 Impo 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 0rt/Export of WR HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI Region ER ER ER ER ER ER ER NER NER NER NER NE	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	116 12 0 117 78 0 117 78 0 0 0 0 0 0 0 754 0 0 0 0 0 RNATIONAL EXCHAN D Name 3) Same 1	345 91 155 0 0 0 WR-NR 1016 0 0 2479 3385 0 0 72 95 WR-SR IGES Max (MW) 0 120 95 22 25 0 -196	0.0 0.0 0.0 1.5 0.8 0.0 48.3 0.0 0.0 0.0 0.0 10.1 0.0 0.0 11.8 11.9 Min (MW) 0 0 118 0 0 0 1-5 -208	1.1 1.1 1.1 1.8 0.0 0.0 0.0 160.2 24.5 0.0 44.0 64.0 0.0 1.3 0.0 133.9 Avg (MW) 0 -40 110 -51 -14 0 -110 -246	22.5 -1.1 -1.1 -1.8 1.5 0.8 0.0 -111.9 -24.5 -64.0 10.1 -1.3 1.8 -122.0 Energy Exchange (MU) 2.6 1.2 -0.4 -0.3 -1.2 -2.6 -5.9