

### 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: 05<sup>th</sup> Mar 2020

To,

- 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 04.03.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04<sup>th</sup> Mar 2020, is available at the NLDC website.

धन्यवाद,

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

Report for previous day 5-Mar-20

## 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)	40876	49707	45593	16024	2395	154595
Peak Shortage (MW)	561	0	0	0	55	616
Energy Met (MU)	880	1208	1125	338	39	3591
Hydro Gen (MU)	141	33	110	28	6	317
Vind Gen (MU)	16	66	33	0	0	115
Solar Gen (MU)*	38.90	29.20	88.10	1.50	0.04	158
Energy Shortage (MU)	9.0	0.0	0.0	0.0	1.0	10.0
Maximum Demand Met during the day (MW) & time	45268	56260	52108	17124	2424	168894
from NLDC SCADA)	09:22	11:25	09:26	18:40	18:07	09:25

**B.** Frequency Profile (%)

Diffequency 1 forme	70)						
Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.036	0.00	0.00	4.73	4.73	72.35	22.92

C. Power Supply Position in States

		Max. Demand	Shortage during		Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum Demand	<b>Energy Met (MU)</b>				Energy
-		day (MW)	(MW)		Schedule (MU)	(MU)	(MW)	Shortage (MU
	Punjab	5426	0	114.0	72.0	-1.7	40	0.0
	Haryana	5853	0	114.0	84.2	-0.8	282	0.0
	Rajasthan	13381	0	225.9	62.6	-2.6	259	0.0
	Delhi	3457	0	63.9	48.4	0.4	173	0.1
NR	UP	12770	0	250.0	122.1	-0.9	480	0.0
	Uttarakhand	1860	0	35.1	15.7	0.6	152	0.0
	HP	1639	0	28.2	21.0	-0.1	159	0.0
	J&K(UT) and Ladakh(UT)	2407	602	45.4	38.2	-0.4	537	8.9
	Chandigarh	212	0	3.4	3.3	0.1	22	0.0
	Chhattisgarh	3758	0	84.3	38.6	-0.8	166	0.0
	Gujarat	15860	0	356.5	103.8	4.4	501	0.0
	MP	12111	0	232.1	111.8	-2.7	322	0.0
WR	Maharashtra	23251	0	490.1	155.2	-2.1	579	0.0
VVK	Goa	524	0	11.0	10.8	-0.3	33	0.0
	DD	339	0	7.7	7.4	0.3	33	0.0
	DNH	819	0	19.2	19.2	0.0	37	0.0
	Essar steel	772	0	7.5	6.9	0.6	280	0.0
	Andhra Pradesh	10005	0	201.2	75.6	0.3	600	0.0
	Telangana	12658	0	254.1	134.8	0.2	893	0.0
SR	Karnataka	12230	0	244.5	70.6	-0.1	604	0.0
3N	Kerala	3860	0	80.0	60.4	1.8	202	0.0
	Tamil Nadu	15502	0	337.3	190.4	1.8	605	0.0
	Pondy	395	0	8.1	8.3	-0.1	38	0.0
	Bihar	4018	0	73.5	68.4	0.3	330	0.0
	DVC	2955	0	59.7	-35.0	0.4	315	0.0
ER	Jharkhand	1120	0	21.7	14.5	-1.9	125	0.0
LIX	Odisha	3518	0	69.9	-1.0	-0.4	320	0.0
	West Bengal	6283	0	111.4	27.6	-0.6	255	0.0
	Sikkim	154	0	1.7	1.8	-0.1	33	0.0
	Arunachal Pradesh	119	1	2.1	2.4	-0.3	27	0.0
	Assam	1348	33	21.3	17.6	0.0	80	0.9
	Manipur	200	1	2.8	2.6	0.1	25	0.0
NER	Meghalaya	359	0	5.5	3.5	0.3	55	0.1
	Mizoram	101	1	1.7	1.5	0.0	22	0.0
	Nagaland	124	3	2.2	1.9	0.2	20	0.0
	Tripura	231	0	3.5	1.9	-0.1	93	0.0

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

Rhutan

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.2	-10.3	-16.0
Day peak (MW)	389.0	-523.3	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.4	-270.9	182.1	-108.3	10.6	-0.1
Actual(MU)	179.9	-274.7	201.9	-120.7	12.8	-0.8
O/D/U/D(MU)	-6.5	-3.8	19.8	-12.4	2.2	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5949	11580	6472	800	1090	25891
State Sector	15955	13331	7945	5332	11	42574
Total	21904	24910	14417	6132	1101	68464

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	426	1221	559	464	10	2679
Lignite	19	16	44	0	0	79
Hydro	141	33	110	28	6	317
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	33	70	17	0	15	136
RES (Wind, Solar, Biomass & Others)	81	110	159	2	0	351
Total	723	1486	933	493	31	3667
	<u> </u>			•		

Share of RES in total generation (%)	11.20	7.39	17.03	0.30	0.13	9.58
Share of Non-fossil fuel (Hydro, Nuclear and RES) in	33.95	12.05	22.57	6.02	18.00	21.08
total generation (%)	33.95	12.05	33.37	0.02	10.00	21.00

H. All India Demand Diversity Factor	H.	All	India	Demand	<b>Diversity</b>	Factor
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11. All mala Demana Diversity 1 actor	
Based on Regional Max Demands	1.025
Based on State Max Demands	1.064

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

<sup>\*</sup>Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

### **INTER-REGIONAL EXCHANGES**

Circuit

Max Import (MW) Max Export (MW)

SI No Voltage Level

Line Details

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 05-Mar-2020

NET (MU)

Export (MU)

Import (MU)

	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	ort/Export of ER	` ,						
1		ALIPURDUAR-AGRA	-	0	500	0.0	0.0	0.0
2		PUSAULI B/B	S/C	0	249	0.0	6.2	-6.2
3		GAYA-VARANASI	D/C	10	689	0.0	6.6	-6.6
4		SASARAM-FATEHPUR	S/C	113	271	0.0	1.6	-1.6
5 6		GAYA-BALIA PUSAULI-VARANASI	S/C S/C	0	357 250	0.0	5.6 4.7	-5.6 -4.7
7		PUSAULI -ALLAHABAD	S/C	0	104	0.0	1.3	-4.7
8		MUZAFFARPUR-GORAKHPUR	D/C	217	451	0.0	1.0	-1.0
9		PATNA-BALIA	Q/C	0	810	0.0	8.0	-8.0
10		BIHARSHARIFF-BALIA	D/C	66	296	0.0	2.2	-2.2
11		MOTIHARI-GORAKHPUR	D/C	0	552	0.0	9.5	-9.5
12		BIHARSHARIFF-VARANASI	D/C	198	242	0.5	0.0	0.5
13		PUSAULI-SAHUPURI	S/C	0	159	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	-	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	0.9	49.6	-48.7
Impo	ort/Export of ER	(With WR)						
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1549	0	29.5	0.0	29.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	524	165	5.9	0.0	5.9
							-	-
3	765 kV	JHARSUGUDA-DURG	D/C	138	167	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	98	287	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	D/C	204	72	1.8	0.0	1.8
6		BUDHIPADAR-RAIGARH	S/C	17	104	0.0	1.3	-1.3
							-	
7	220 kV	BUDHIPADAR-KORBA	D/C	121	0	1.9	0.0	1.9
lm-	nt/Evnant - 1 ==	(Mith SD)			ER-WR	39.1	4.3	34.8
	ort/Export of ER		5/6		20.4	2.2	44.5	445
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	694	0.0	14.2	-14.2
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2475	0.0	51.6	-51.6
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3266	0.0	65.5	-65.5
4	400 kV	TALCHER-I/C	D/C	0	983	0.0	8.5	-8.5
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
		ONE LAND			ER-SR	0.0	131.3	-131.3
. 1	ort/Export of ER		I 5/0	_				
1		BINAGURI-BONGAIGAON	D/C	0	601	0.0	8.8	-8.8
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	778	0.0	13.8	-13.8
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	142	0.0	2.3	-2.3
Imm	wt/Evmont of NEI	D (ME41- NID)			ER-NER	0.0	24.9	-24.9
	ort/Export of NEI		1		500		14.0	1 44.0
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	11.2	-11.2
lm n a	ort/Export of WR	(MG4L ND)			NER-NR	0.0	11.2	-11.2
_			D/0		CEO		7.4	7.4
1		CHAMPA-KURUKSHETRA V'CHAL B/B	D/C	0	650	0.0	7.1	-7.1
2	HVDC		D/C	451	0	12.1	0.0	12.1
3	HVDC	APL -MHG	D/C	0	1551	0.0	33.7	-33.7
4	765 kV	GWALIOR-AGRA	D/C	0	2282	0.0	42.0	-42.0
5	765 kV	PHAGI-GWALIOR	D/C	0	1415	0.0	20.3	-20.3
6	765 kV	JABALPUR-ORAI	D/C	0	811	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	S/C	554	0	11.7	0.0	11.7
	765 kV	SATNA-ORAI	S/C	0	1379	0.0	29.8	-29.8
8	-0-11/	CHITORGARH-BANASKANTHA	D/C	187	701	0.0	6.7	-6.7
9				154	89			
9	400 kV	ZERDA-KANKROLI	S/C			0.8	0.0	0.8
9 10 11	400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	S/C	141	221	0.0	0.8	-0.8
9 10 11 12	400 kV 400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND	S/C S/C	969	0	0.0 22.4	0.8 0.0	-0.8 22.4
9 10 11 12 13	400 kV 400 kV 400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	S/C S/C D/C	969 184	0 208	0.0 22.4 0.0	0.8 0.0 0.6	-0.8 22.4 -0.6
9 10 11 12 13 14	400 kV 400 kV 400 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	S/C S/C D/C S/C	969 184 12	0 208 91	0.0 22.4 0.0 0.2	0.8 0.0 0.6 0.7	-0.8 22.4 -0.6 -0.5
9 10 11 12 13 14 15	400 kV 400 kV 400 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	S/C S/C D/C S/C S/C	969 184 12 0	0 208 91 134	0.0 22.4 0.0 0.2 0.0	0.8 0.0 0.6 0.7 1.6	-0.8 22.4 -0.6 -0.5 -1.6
9 10 11 12 13 14 15 16	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	S/C S/C D/C S/C S/C S/C	969 184 12 0	0 208 91 134	0.0 22.4 0.0 0.2 0.0 0.7	0.8 0.0 0.6 0.7 1.6	-0.8 22.4 -0.6 -0.5 -1.6 0.7
9 10 11 12 13 14 15 16 17	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	S/C S/C D/C S/C S/C S/C S/C	969 184 12 0 84 46	0 208 91 134 13 22	0.0 22.4 0.0 0.2 0.0 0.7 0.7	0.8 0.0 0.6 0.7 1.6 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7
9 10 11 12 13 14 15 16	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	S/C S/C D/C S/C S/C S/C	969 184 12 0	0 208 91 134 13 22	0.0 22.4 0.0 0.2 0.0 0.7 0.1	0.8 0.0 0.6 0.7 1.6 0.0 0.1	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0
9 10 11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	S/C S/C D/C S/C S/C S/C S/C	969 184 12 0 84 46	0 208 91 134 13 22	0.0 22.4 0.0 0.2 0.0 0.7 0.7	0.8 0.0 0.6 0.7 1.6 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7
9 10 11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  (With SR)	S/C S/C D/C S/C S/C S/C S/C S/C	969 184 12 0 84 46	0 208 91 134 13 22 0 WR-NR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1
9 10 11 12 13 14 15 16 17 18	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR (With SR)	S/C S/C D/C S/C S/C S/C S/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1
9 10 11 12 13 14 15 16 17 18 Impo	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 210 kV 210 kV 210 kV 210 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  (With SR) BHADRAWATI B/B BARSUR-L.SILERU	S/C S/C D/C S/C S/C S/C S/C S/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1 -12.5
9 10 11 12 13 14 15 16 17 18 Impoo	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR HVDC HVDC 765 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	S/C S/C D/C S/C S/C S/C S/C S/C S/C D/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR 552 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1 12.5 0.0 47.7	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1 -12.5 0.0 -47.7
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV Part/Export of WR HVDC HVDC 765 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C D/C D/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1 12.5 0.0 47.7 67.3	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1 -12.5 0.0 -47.7 -67.3
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV PART OF WR HVDC HVDC 765 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1 12.5 0.0 47.7 67.3 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 2765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1 12.5 0.0 47.7 67.3 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C S/C	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1 12.5 0.0 47.7 67.3 0.0 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 2765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C	969 184 12 0 84 46 0	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0 1	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1 12.5 0.0 47.7 67.3 0.0 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0 1	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW)	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU)
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW)	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU)
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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  Region  ER  ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHANNAME	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  IGES Max (MW) 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1 Min (MW) 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 Region ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN Name 3) BIRPARA RECEIPT × 180) CEIPT	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1 Min (MW)	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW)	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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  Region  ER  ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHANNAME	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  IGES Max (MW) 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1 Min (MW) 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 Region ER ER ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHANNAME 3) BIRPARA RECEIPT x 180) CEIPT	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR IGES Max (MW) 0 0 181 102	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0  0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 Region ER ER ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHANNAME 3) BIRPARA RECEIPT x 180) CEIPT	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  IGES  Max (MW) 0 0 181	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0  0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 Region ER ER ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHANName 3 BIRPARA RECEIPT x 180) CEIPT INAGURI RECEIPT - GELEPHU	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR IGES Max (MW) 0 0 181 102	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0  0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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  Region ER ER ER ER ER NER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN Name 3 BIRPARA RECEIPT × 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  GGES  Max (MW) 0 0 181 102 16 20	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90 21 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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	S/C	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN Name 3) BIRPARA RECEIPT × 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) -	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR IGES Max (MW) 0 0 181 102 16	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 90 21	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 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 220 kV	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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  Region ER ER ER ER ER NER	S/C	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 0 NATIONAL EXCHAN Name 3) BIRPARA RECEIPT × 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) -	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  GGES  Max (MW) 0 0 181 102 16 20	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90 21 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV  State	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 NER NER NER	S/C	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN Name 3) BIRPARA RECEIPT - x 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) - PG	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR IGES Max (MW) 0 0 181 102 16 20 0 -204	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90 21 0 0 0 -38	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5 -11 0 -121	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3 -1.2
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV  State	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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  Region ER ER ER ER NER NER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN Name 3) BIRPARA RECEIPT - x 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) - PG	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  IGES Max (MW) 0 0 181 102 16 20 0	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 11.7 14.1  Min (MW) 0 0 90 21 0 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5 -11	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3 -1.2
9 10 11 12 13 14 15 16 17 18 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV  State	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 NER NER NER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 0 NATIONAL EXCHAN Name 3 SIRPARA RECEIPT - X 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) - GG) EPAL RPUR -	0 208 91 134 13 22 0 WR-NR 552 0 2634 3500 0 0 79 92 WR-SR IGES Max (MW) 0 0 181 102 16 20 0 -204	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90 21 0 0 0 -38	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5 -11 0 -121	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3 -1.2
9 10 11 12 13 14 15 16 17 18 Simpoon 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV  State   BHUTAN	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 XELDEM-AMBEWADI  Region ER ER ER NER NER NER NER NER ER ER ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 838 0 1 0 NATIONAL EXCHAN Name 3) BIRPARA RECEIPT x 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) - GG) EPAL RPUR -	0 208 91 134 13 22 0 WR-NR  552 0 WR-NR  5552 0 2634 3500 0 0 79 92 WR-SR  IGES Max (MW) 0 0 181 102 16 20 0 -204 282 -898	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90 21 0 0 0 -38 200 -200	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5 -11 0 -121 -259 -569	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3 -1.2 -2.9 -6.2 -13.7
9 10 11 12 13 14 15 16 17 18 Simpoon 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV  State	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 XELDEM-AMBEWADI RER ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969  184  12  0  84  46  0  0  0  0  0  0  0  838  0  1  0  NATIONAL EXCHAN Name  3)  BIRPARA RECEIPT  x 180) CEIPT INAGURI RECEIPT  - GELEPHU DEOTHANG NH) - 'G' EPAL RPUR -  (Bangladesh) NI NAGAR - ADESH)-1	0 208 91 134 13 22 0 WR-NR  552 0 2634 3500 0 0 79 92 WR-SR  GGES  Max (MW) 0 0 181 102 16 20 0 -204 282	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0  0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5 -11 0 -121	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3 -1.2 -2.9 -6.2
9 10 11 12 13 14 15 16 17 18 Simpoon 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV  Ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV 220 kV  State   BHUTAN	ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND 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 XELDEM-AMBEWADI  Region ER ER ER NER NER NER NER NER ER ER ER	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	969 184 12 0 84 46 0 0 0 0 0 0 0 0 838 0 1 0 1 0 NATIONAL EXCHAN Name 3 SIRPARA RECEIPT - x 180) CEIPT INAGURI RECEIPT - GELEPHU DEOTHANG NH) - PG EPAL RPUR - (Bangladesh) NI NAGAR - ADESH)-1 NI NAGAR -	0 208 91 134 13 22 0 WR-NR  552 0 WR-NR  5552 0 2634 3500 0 0 79 92 WR-SR  IGES Max (MW) 0 0 181 102 16 20 0 -204 282 -898	0.0 22.4 0.0 0.2 0.0 0.7 0.1 0.0 48.0 0.0 0.0 0.0 0.0 12.4 0.0 0.0 1.7 14.1  Min (MW) 0 0 90 21 0 0 0 -38 200 -200	0.8 0.0 0.6 0.7 1.6 0.0 0.1 0.0 171.1  12.5 0.0 47.7 67.3 0.0 0.0 1.4 0.0 128.9  Avg (MW) 0 -41 91 56 -5 -11 0 -121 -259 -569	-0.8 22.4 -0.6 -0.5 -1.6 0.7 0.0 0.0 -123.1  -12.5 0.0 -47.7 -67.3 12.4 0.0 -1.4 1.7 -114.8  Energy Exchange (MU) 0.0 -1.0 2.2 1.4 -0.1 -0.3 -1.2 -2.9 -6.2 -13.7