

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

दिनांक: 27thJul 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

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 - ७९३००६ Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya

5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,२९ , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 26.07.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-जुलाई-२०२० 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 26th July 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:

A. Power Supply Position at All India and Regional level						
	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	58060	42632	33098	21945	2627	158362
Peak Shortage (MW)	1063	0	0	0	168	1231
Energy Met (MU)	1325	1008	776	461	49	3620
Hydro Gen (MU)	348	23	72	143	27	612
Wind Gen (MU)	8	34	96			138
Solar Gen (MU)*	36.64	24.43	72.71	4.39	0.03	138
Energy Shortage (MU)	10.6	0.0	0.0	0.0	2.0	12.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63307	42607	35349	22269	2624	161787
Time Of Maximum Demand Met (From NLDC SCADA)	22:33	22:51	12:09	21:28	18:59	22:32
B. Frequency Profile (%)						
Pagion EVI	< 40.7	40.7 40.9	40.9 40.0	< 40 O	40.0 50.05	> 50.05

		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)	(IVIC)	(MU)	(MC)	(1111)	(MU)
	Punjab	11558	0	263.5	151.4	0.0	133	0.0
	Haryana	8546	0	185.7	152.2	1.5	262	0.1
	Rajasthan	10565	0	230.2	86.3	0.9	407	0.0
	Delhi	5278	0	99.2	86.6	-0.9	119	0.0
NR	UP	22501	170	436.5	193.3	2.8	461	0.2
	Uttarakhand	1724	0	37.5	18.4	-0.4	108	0.0
	HP	1106	0	23.8	-5.9	-0.7	111	0.0
	J&K(UT) & Ladakh(UT)	2144	536	43.0	17.8	2.2	365	10.3
	Chandigarh	290	0	5.4	5.2	0.2	62	0.0
	Chhattisgarh	4252	0	99.0	31.3	0.5	287	0.0
	Gujarat	13037	0	288.4	88.0	6.0	515	0.0
	MP	9818	0	218.2	129.6	-0.8	573	0.0
WR	Maharashtra	15900	0	357.6	130.5	-3.8	547	0.0
	Goa	401	0	8.3	8.2	-0.1	50	0.0
	DD	215	0	4.8	4.9	0.0	20	0.0
	DNH	610	0	14.0	14.1	-0.1	41	0.0
	AMNSIL	818	0	18.1	8.1	-0.1	267	0.0
	Andhra Pradesh	6932	0	151.2	56.9	-0.3	419	0.0
	Telangana	9375	0	188.4	85.7	-0.9	614	0.0
SR	Karnataka	7085	0	139.3	48.3	-3.5	461	0.0
	Kerala	2954	0	59.2	46.2	0.4	151	0.0
	Tamil Nadu	10257	0	231.3	102.3	-5.8	233	0.0
	Puducherry	331	0	6.9	7.2	-0.3	19	0.0
	Bihar	5683	0	116.4	111.0	1.2	500	0.0
	DVC	2878	0	64.1	-40.6	0.2	190	0.0
	Jharkhand	1555	0	27.3	22.8	-0.9	126	0.0
ER	Odisha	4275	0	87.9	6.1	0.0	250	0.0
	West Bengal	8382	0	164.6	47.5	2.6	486	0.0
	Sikkim	78	0	0.9	1.1	-0.1	20	0.0
	Arunachal Pradesh	94	1	1.8	1.2	0.5	26	0.0
	Assam	1653	150	30.8	26.5	-0.1	124	2.0
	Manipur	184	1	2.8	2.5	0.4	35	0.0
NER	Meghalaya	293	0	5.3	-0.2	-0.2	39	0.0
	Mizoram	91	1	1.6	1.1	0.2	17	0.0
	Nagaland	117	1	2.1	2.3	-0.4	16	0.0
	Tripura	291	2	5.0	6.2	0.6	35	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.4	-1.5	-25.9
Day Peak (MW)	2225.0	-220.6	-1101.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	305.5	-267.5	87.7	-121.6	-4.0	0.0
Actual(MU)	309.0	-263.2	73.6	-115.2	-4.4	-0.2
IO/D/U/D(MU)	3.5	4.3	-14.0	6.4	-0.4	-0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5659	14537	10912	1545	643	33296
State Sector	8744	19818	15350	4942	47	48901
Total	14403	34355	26262	6487	690	82197

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	547	1081	370	476	7	2481
Lignite	17	13	21	0	0	51
Hydro	348	23	72	143	27	612
Nuclear	26	33	23	0	0	82
Gas, Naptha & Diesel	35	67	14	0	24	141
RES (Wind, Solar, Biomass & Others)	64	68	214	4	0	350
Total	1038	1284	714	623	59	3717
O ADTOL						
Share of RES in total generation (%)	6.20	5.28	29.91	0.71	0.05	9.42
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	42.26	9.59	43.27	23.61	46.35	28.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.059

Diversity factor = Sum of regional or state maximum demands / All India maximum demand
*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 27-Jul-2020

		T					Date of Reporting:	27-Jul-2020
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	t/Export of ER (With NR)						
1		ALIPURDUAR-AGRA	D/C	0	1202	0.0	27.8	-27.8
3		PUSAULI B/B GAYA-VARANASI	D/C	0	398 604	0.0	9.8 9.8	-9.8 -9.8
4	765 kV	SASARAM-FATEHPUR	S/C	167	83	1.8	0.0	1.8
5	765 kV	GAYA-BALIA	S/C	0	500	0.0	8.7	-8.7
7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	289 170	0.0	6.4 3.1	-6.4 -3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	Ŏ	699	0.0	12.9	-12.9
9		PATNA-BALIA	O/C	0	780	0.0	14.3	-14.3
10 11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	D/C D/C	0	352 316	0.0	6.0 5.6	-6.0 -5.6
12	400 kV	BIHARSHARIFF-VARANASI	D/C	47	180	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	109	0.0	2.1	-2.1
14 15	132 kV 132 kV	SONE NAGAR-RIHAND GARWAH-RIHAND	S/C S/C	30	0	0.0	0.0	0.0
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.4	0.0	0.4
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
Impor	t/Export of ER (With WD			ER-NR	2.2	107.6	-105.3
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	744	190	9.5	0.0	9.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1206	0	19.8	0.0	19.8
3	765 kV	JHARSUGUDA-DURG	D/C	106	111	0.4	0.0	0.4
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	122	203	0.0	1.1	-1.1
5	400 kV	RANCHI-SIPAT	D/C	418	0	7.0	0.0	7.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	108	0.0	1.0	-1.0
7		BUDHIPADAR-KORBA	D/C	168	0	2.2	0.0	2.2
			_		ER-WR	38.9	2.1	36.9
Impor	t/Export of ER (With SR) JEYPORE-GAZUWAKA B/B	D/C	1 0	522	0.0	12.4	12.4
2	HVDC	TALCHER-KOLAR BIPOLE	D/C D/C	0	533 1851	0.0	12.4 45.9	-12.4 -45.9
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	1987	0.0	34.2	-34.2
4	400 kV	TALCHER-I/C	D/C	272	973	0.0	2.4	-2.4
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0 ER-SR	0.0 0.0	0.0 92.5	0.0 -92.5
Impor	t/Export of ER (With NER)			EK-3K	υ.υ	14.3	-74.3
1	400 kV	BINAGURI-BONGAIGAON	D/C	11	354	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	237	300	0.0	0.3	-0.3
3	220 kV	ALIPURDUAR-SALAKATI	D/C		106 ER-NER	0.0	1.2 5.0	-1.2 -5.0
Impor	t/Export of NER	(With NR)						
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	503	0.0	12.2	-12.2
Impo	t/Export of WR	(With NR)			NER-NR	0.0	12.2	-12.2
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1754	0.0	37.5	-37.5
2	HVDC	VINDHYACHAL B/B		229	152	5.1	0.6	4.5
3	HVDC	MUNDRA-MOHINDERGARH	D/C D/C	0	1915	0.0	32.9	-32.9
5	765 kV 765 kV	GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C	0	2831 1270	0.0	47.7 23.8	-47.7 -23.8
6	765 kV	JABALPUR-ORAI	D/C	0	1158	0.0	39.3	-39.3
7		GWALIOR-ORAI	S/C	437	0	8.5	0.0	8.5
9	765 kV 765 kV	SATNA-ORAI CHITORGARH-BANASKANTHA	S/C D/C	0	1501 1275	0.0	30.6 13.5	-30.6 -13.5
10	400 kV	ZERDA-KANKROLI	S/C	38	199	0.0	1.1	-1.1
11			ala	0		0.0		
		ZERDA -BHINMAL	S/C		319		2.4	-2.4
12	400 kV	VINDHYACHAL -RIHAND	S/C	975	0	22.7	0.0	22.7
13	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	S/C D/C	975 0		22.7 0.0	0.0 6.0	22.7 -6.0
	400 kV	VINDHYACHAL -RIHAND	S/C	975 0 11 0	0 470	22.7 0.0 0.0 0.0	0.0 6.0 1.4 1.7	22.7
13 14 15 16	400 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	S/C D/C S/C S/C S/C	975 0 11 0 84	0 470 0 108 20	22.7 0.0 0.0 0.0 0.0	0.0 6.0 1.4 1.7 0.2	22.7 -6.0 -1.4 -1.7 -0.1
13 14 15 16 17	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	S/C D/C S/C S/C S/C S/C	975 0 11 0 84 50	0 470 0 108 20 48	22.7 0.0 0.0 0.0 0.2 0.7	0.0 6.0 1.4 1.7 0.2 0.0	22.7 -6.0 -1.4 -1.7 -0.1 0.7
13 14 15 16	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	S/C D/C S/C S/C S/C	975 0 11 0 84	0 470 0 108 20	22.7 0.0 0.0 0.0 0.0	0.0 6.0 1.4 1.7 0.2	22.7 -6.0 -1.4 -1.7 -0.1
13 14 15 16 17 18 19	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	S/C D/C S/C S/C S/C S/C S/C	975 0 11 0 84 50	0 470 0 108 20 48 0	22.7 0.0 0.0 0.0 0.2 0.7 0.0	0.0 6.0 1.4 1.7 0.2 0.0 0.0	22.7 -6.0 -1.4 -1.7 -0.1 0.7 0.0
13 14 15 16 17 18 19	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANAW BHANPURA-WARAW MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR)	S/C D/C S/C S/C S/C S/C S/C	975 0 111 0 84 50 0	0 470 0 108 20 48 0 0 WR-NR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6	22.7 -6.0 -1.4 -1.7 -0.1 0.7 0.0 0.0 -201.4
13 14 15 16 17 18 19	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B	S/C D/C S/C S/C S/C S/C S/C	975 0 11 0 84 50	0 470 0 108 20 48 0	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2	0.0 6.0 1.4 1.7 0.2 0.0 0.0	22.7 -6.0 -1.4 -1.7 -0.1 0.7 0.0 0.0
13 14 15 16 17 18 19 Impor 1 2 3	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV	VINDHYACHAL - RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR (WHANDAR - WHANDAR	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C	975 0 11 0 84 50 0 0	0 470 0 108 20 48 0 0 WR-NR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 238.6 9.8 0.0	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4
13 14 15 16 17 18 19 Impor 1 2 3 4	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR HVDC HVDC 765 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAIGHAT-LALITPUR WHIG SR) BHADRAWATI B/B RAIGANH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 238.6	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1
13 14 15 16 17 18 19 Import 1 2 3 4 5	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14Export of WR HVDC HVDC 765 kV 765 kV 400 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANAW BHANPURA-WARAY MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C	975 0 11 0 84 50 0 0 0	0 470 0 108 20 48 0 0 WR-NR 414 0 1379 1704	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 37.2	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -9.8 -25.1 -17.5
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR I HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANDH BHANPURA-WANDH MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 470 0 108 20 48 0 0 WR-NR 414 0 1379 1704 0	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 9.8 0.0 8.4 225.1 0.0 0.0	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1 -17.5 -0.0 -0.0
13 14 15 16 17 18 19 Impor 1 2 3 4 5 6	400 kV 400 kV 220 kV 220 kV 220 kV 122 kV 132 kV 132 kV HVDC HVDC T65 kV 400 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WHIS SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAJCHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C	975 0 0 11 0 84 50 0 0 0 0 0 0 1066 0	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -9.8 -9.8 -9.8 -9.0 -0.0 -0.0 -1.1
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR I HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANDH BHANPURA-WANDH MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	S/C 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 S/C S/C S/C S/C S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 10 0 0 10 0 10 0 10 10 1	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 WR-SR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 9.8 0.0 8.4 225.1 0.0 0.0	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1 -17.5 -0.0 -0.0
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14Export of WR HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANDH BHANPURA-WANDH MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	S/C 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 S/C S/C S/C S/C S/C S/C S/C S/C INTER	975 0 111 0 84 50 0 0 0 0 0 0 0 1066 0 1066 0 0 NATIONAL EXCHA	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 0.0 43.3	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -9.8 -9.8 -8.4 -25.1 -17.5 -0.0 -0.0 -1.1 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR I HVDC HVDC 765 kV 400 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WANDH BHANPURA-WANDH MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	S/C 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 S/C S/C S/C S/C S/C S/C S/C S/C INTER	975 0 11 0 84 50 0 0 0 0 0 0 0 10 0 0 10 0 10 0 10 10 1	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 WR-SR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1 -17.5 -0.0 -0.0 -20.4 -24.8 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14Export of WR HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAJGARI-PUGALUR SOLAPUR-RAJCHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 10 0 10 0 10 0 10 10 1	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 WR-SR	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 37.2 0.0 0.0 0.0 17.5 0.0 0.0 11.1 18.6	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 0.0 43.3	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -2.5.1 -2.5.1 -2.5.4 -2.5
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14Export of WR HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR WHIS SR) BHADRAWATI B/B RAJGAHAP-UGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	S/C 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 S/C S/C S/C S/C S/C S/C S/C S/C INTER	975 0 11 0 84 50 0 0 0 0 0 0 0 0 10 0 10 0 10 0 10 10 1	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 0.0 43.3	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1 -17.5 -0.0 -0.0 -20.4 -24.8 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14Export of WR HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAJGARI-PUGALUR SOLAPUR-RAJCHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	S/C	975 0 0 11 0 84 50 0 0 0 0 0 0 0 10 0 0 1066 0 0 1 NATIONAL EXCHA	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 WR-SR WR-SR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW)	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 0.0 43.3	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -28.4 -25.1 -17.5 -0.0 -0.0 -24.8 -24.8 -24.8 -25.1 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	S/C 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 S/C S/C S/C S/C D/C S/C S/C D/C S/C S/C D/C S/C S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 106 0 0 106 0 0 107 NATIONAL EXCHA Name)	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 WR-SR Max (MW)	22.7 0.0 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1 -17.5 -0.0 -0.0 -1.1 -24.8 Energy Exchange (MU) -0.0 -7.7
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14Export of WR HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION REGION ER	S/C D/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 S/C S/C S/C S/C S/C S/C S/C C S/C S/C C S/C C S/C C S/C C C S/C C C C C C C C C C	975 0 0 111 0 84 50 0 0 0 0 0 0 902 0 1066 0 1 NATIONAL EXCHA Name)	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 WR-SR WR-SR	22.7 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW)	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 0.0 43.3	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -28.4 -25.1 -17.5 -0.0 -0.0 -24.8 -24.8 -24.8 -25.1 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLH	S/C	975 0 0 111 0 84 50 0 0 0 0 0 0 0 1066 0 0 11 NATIONAL EXCHA Name) IRPARA RECEIPT x 180)	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 225.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -1.1 -24.8 -24.8 -24.8 -24.8 -24.8 -2.8 -24.8 -2.8 -24.8 -2.8 -24.8 -25.1 -24.8 -24.8 -24.8 -25.1 -24.8 -24.8 -24.8 -25.1 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER ER	S/C 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 D/C D/C D/C S/C S/C	975 0 0 111 0 84 50 0 0 0 0 0 0 902 0 1066 0 11 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0 360 588	22.7 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 1.1 18.6	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556	22.7 -6.0 -1.4 -1.7 -6.1 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -1.1 -24.8 -24.8 -24.8 -24.8 -24.8 -25.1 -24.8 -24.8 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLH	S/C	975 0 0 111 0 84 50 0 0 0 0 0 0 902 0 1066 0 11 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 225.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -1.1 -24.8 -24.8 -24.8 -24.8 -24.8 -2.8 -24.8 -2.8 -24.8 -2.8 -24.8 -25.1 -24.8 -24.8 -24.8 -25.1 -24.8 -24.8 -24.8 -25.1 -24.8
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAJGHUR WARDHA-NIZAMABAI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER	S/C	975 0 0 111 0 84 50 0 0 0 0 0 0 902 0 1066 0 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT GELEPHU	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0 360 588	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 0.0 11.1 18.6 Min (MW) 0 0 1058	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 225.1 0.0 0.0 0.0 0.0 3322 556 1155	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -1.1 -25.1 -17.5 -0.0 -0.0 -1.1 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -25
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER ER	S/C D/C S/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	975 0 0 111 0 84 50 0 0 0 0 0 0 902 0 1066 0 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0 360 588	22.7 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 1.1 18.6	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556	22.7 -6.0 -1.4 -1.7 -6.1 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -1.1 -24.8 -24.8 -24.8 -24.8 -24.8 -25.1 -24.8 -24.8 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAJGHUR WARDHA-NIZAMABAI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER	S/C D/C S/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	975 0 0 11 0 84 50 0 0 0 0 0 0 902 0 1066 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT X180) EIPT NAGURI RECEIPT GELEPHU DEOTHANG H) -	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0 360 588	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 0.0 11.1 18.6 Min (MW) 0 0 1058	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 225.1 0.0 0.0 0.0 0.0 3322 556 1155	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -1.1 -25.1 -17.5 -0.0 -0.0 -1.1 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -24.8 -25.1 -25
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 155 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURATYA MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAJCHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER NER NER	S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 0 0 1066 0 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 1800 EEIPT NAGURI RECEIPT - GELEPHU DEOTHANG H) -)	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 82 WR-SR Max (MW) 0 360 588 1067 55	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 1.1 18.6	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -2.8 -2.8 -2.8 -2.8 -1.7.5 -0.0 -2.0 -2.0 -2.0 -2.0 -3.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.6 -2.6 -2.6 -2.6 -2.6 -2.6 -2.6 -2.6
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 765 kV 765 kV 220 kV 220 kV 220 kV 240 kV 250 kV 250 kV 250 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA WHIS RI BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WORDHAN-RIAMBADD KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER ER ER ER NER	S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 0 0 0 1066 0 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H))	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR Max (MW) 0 360 588	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 11.1 18.6	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 255.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -0.0 -201.4 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 155 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER NER	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 0 0 0 1066 0 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H))	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 82 WR-SR Max (MW) 0 360 588 1067 55 65 -60	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0 0 1058 0 0 0 75	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57 -26 -25	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.1 -0.7 -0.0 -0.0 -201,4 -2.8 -2.8 -2.5.1 -17.5 -0.0 -0.0 -1.1 -24.8 Energy Exchange (MU) -0.0 -7.7 -13.3 -27.7 -1.2 -0.6 -0.6
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 155 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURATYA MEHGAON-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA MALANPUR-AURATYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARH-PUGALUR SOLAPUR-RAJCHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER ER ER ER ER NER NER	S/C	975 0 11 0 84 50 0 0 0 0 0 0 0 0 0 0 0 0 1066 0 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H))	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 82 WR-SR Max (MW) 0 360 588 1067 55	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 1.1 18.6	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57	22.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -2.8 -2.8 -2.8 -2.8 -1.7.5 -0.0 -2.0 -2.0 -2.0 -2.0 -3.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.1 -2.4.8 -2.6 -2.6 -2.6 -2.6 -2.6 -2.6 -2.6 -2.6
13 14 15 16 17 18 19 Import 1 2 3 4 5 6 7	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 155 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER NER	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	975 0 0 11 11 0 84 50 0 0 0 0 0 0 0 106 0 1066 0 11 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H) -) PAL RPUR -	0 470 0 108 20 48 0 WR-NR 414 0 1379 1704 0 0 82 WR-SR Max (MW) 0 360 588 1067 55 65 -60	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0 0 1058 0 0 0 75	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57 -26 -25	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.1 -0.7 -0.0 -0.0 -201,4 -2.8 -2.8 -2.5.1 -17.5 -0.0 -0.0 -1.1 -24.8 Energy Exchange (MU) -0.0 -7.7 -13.3 -27.7 -1.2 -0.6 -0.6
13 14 15 16 17 18 19 1 1 12 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14VDC HVDC HVDC T65 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA (WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	975 0 0 11 0 84 50 0 0 0 0 0 0 0 0 106 0 106 0 11 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT GELEPHU SEOTHANG H) . PAL RPUR - Bangladesh)	0 470 0 108 20 48 0 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0 360 588 1067 55 65 -60 -91 -70	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0 0 1058 0 0 0 1058	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57 -26 -25 -13	22.7 -6.0 -1.4 -1.7 -6.1 -1.7 -0.1 -0.7 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -2.5.1 -1.5 -0.0 -0.0 -1.1 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -26.0 -1.1 -24.8 -26.0 -1.1 -24.8 -0.6 -0.6 -0.6 -0.6 -0.6
13 14 15 16 17 18 19 1 1 12 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 140 kV 155 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL RHAND RAPPSHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA (GWALIOR-SAWAI MADHOPUR RAIGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI REGION ER ER ER ER ER ER ER ER NER NER NER	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	975 0 0 11 11 0 84 50 0 0 0 0 0 0 0 0 1066 0 1066 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H) -) PPAL RPUR - Bangladesh) RI NAGAR - ADESH)-1	0 470 0 108 108 20 48 0 WR-NR 414 0 1379 1704 0 0 82 WR-SR NGES Max (MW) 0 360 588 1067 55 65 -60 -91	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 37.2 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0 0 1058 0 0 0 75	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57 -26 -25	22.7 -6.0 -1.4 -1.7 -6.1 -0.1 -0.7 -0.0 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -9.8 -9.8 -9.8 -9.8 -9.8 -9.8 -9.8
13 14 15 16 17 18 19 1 1 10 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14VDC HVDC HVDC T65 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI ROLHAPUR-MADBAWADI REGION ER	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	975 0 11 0 84 50 0 0 11 0 84 50 0 0 0 0 0 0 0 106 0 0 106 0 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H) .) PAL ADESH)-1 II NAGAR - ADESH)-1 II NAGAR	0 470 0 108 108 20 48 0 0 WR-NR 414 0 1379 1704 0 0 82 WR-SR NGES Max (MW) 0 360 588 1067 55 65 -60 -91 -70 -945	22.7 0.0 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57 -26 -25 -13 -942 -69	22.7 -6.0 -1.4 -1.7 -6.0 -1.4 -1.7 -0.1 -0.1 -0.7 -0.0 -0.0 -0.0 -201.4 -9.8 -0.0 -8.4 -25.1 -17.5 -0.0 -0.0 -1.1 -24.8 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -25.1 -26.1
13 14 15 16 17 18 19 1 12 2 3 4 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14VDC HVDC HVDC T65 kV 765 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA (WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI REGION ER	S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	975 0 11 0 84 50 0 0 11 0 84 50 0 0 0 0 0 0 0 106 0 0 106 0 0 1 1 NATIONAL EXCHA Name) IRPARA RECEIPT x 180) EIPT NAGURI RECEIPT - GELEPHU DEOTHANG H) .) PAL ADESH)-1 II NAGAR - ADESH)-1 II NAGAR	0 470 0 108 20 48 0 0 WR-NR 414 0 1379 1704 0 0 0 82 WR-SR NGES Max (MW) 0 360 588 1067 55 65 -60 -91 -70	22.7 0.0 0.0 0.0 0.0 0.2 0.7 0.0 0.0 0.0 0.0 37.2 0.0 0.0 0.0 0.0 17.5 0.0 0.0 18.6 Min (MW) 0 0 1058 0 0 0 1058	0.0 6.0 1.4 1.7 0.2 0.0 0.0 0.0 0.0 0.0 238.6 9.8 0.0 8.4 25.1 0.0 0.0 0.0 43.3 Avg (MW) 0 322 556 1155 52 57 -26 -25 -13	22.7 -6.0 -1.4 -1.7 -6.0 -1.4 -1.7 -0.1 -0.7 -0.0 -0.0 -0.0 -201.4 -9.8 -0.0 -201.4 -9.8 -0.0 -2.5.1 -1.5 -0.0 -0.0 -1.1 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -24.8 -25.1 -24.8 -26.6 -0.6 -0.6 -0.6 -0.6 -0.6