

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: 02nd July 2022

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016
 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi 110016
- 3. कार्यकारी निदेशक, प क्षे भा प्रे के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 01.07.2022.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक ०१-जुलाई-२०२२ की अखिल भारतीय प्रणाली की

दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 01st July 2022, 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: 02-Jul-2022

A. Power Supply	Position at All India and Regional level						
		NR	WR	SR	ER	NER	TOTAL
Demand Met duri	ing Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	60730	51702	42850	23382	3044	181708
Peak Shortage (M	IW)	0	0	0	0	46	46
Energy Met (MU)		1324	1237	1004	525	57	4147
Hydro Gen (MU)		340	20	47	118	34	559
Wind Gen (MU)		35	158	222	-		414
Solar Gen (MU)*		62.09	38.47	98.62	5.51	0.60	205
Energy Shortage	(MU)	3.02	0.00	0.00	0.66	0.65	4.33
Maximum Deman	d Met During the Day (MW) (From NLDC SCADA)	64418	53314	47021	24828	3075	183054
Time Of Maximum Demand Met (From NLDC SCADA)		22:23	11:09	11:42	00:00	19:37	19:52
B. Frequency Pr	ofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.061	0.00	3.30	7.27	10.57	69.73	19.71

C. Power Supply Position in States Max.Demand Shortage during Energy Met Drawal OD(+)/UD(-) Max OD Energy Region States Met during the Schedule Shortage maximum (MU) (MU) dav(MW) Demand(MW) (MU) (MU) Punjab 231.3 Haryana 8937 184.9 122.8 0.7 477 0.00 10741 5289 22398 2143 102.5 -1.5 3.1 0.9 154 773 194 Delhi 112.8 0.00 UP Uttarakhand 419.3 44.8 201.4 25.1 NR 2.28 0.74 1564 1997 279 32.4 47.2 -0.3 -7.2 HP 0 -1.0 119 0.00 J&K(UT) & Ladakh(UT) 29.4 0.00 0 58 Chandigarh Chhattisgarh 5.8 107.8 -0.4 0.00 4532 0.0 176 0.00 Gujarat 17428 383.0 180.4 967 0.00 9287 212.8 WR Maharashtra 21216 476.5 161.4 0.0 867 0.00 0.0 Goa DNHDDPDCI 1146 26.9 11.5 44.2 26.7 -0.2 0.00 AMNSIL 18.1 0.3 Andhra Pradesh -2.8 9080 192.7 487 0.00 Telangana Karnataka 9339 10855 72.4 53.5 51.2 547 971 181.3 0.4 0.00 202.9 -2.4 0.00 Kerala Tamil Nadu 210 0.00 16834 349.9 150.7 922 -6.0 0.00 Puducherry 441 9.8 10.1 -0.4 0.00 Bihar 5857 115.0 106.9 DVC 3377 -26.8 0.0 294 0.00 Jharkhand ER 120.4 Odisha 5815 65.4 -1.9 433 0.00 8829 94 West Bengal 182.1 65.5 410 0.00 Sikkim 1.6 1.1 0.5 45 0.00 Arunachal Pradesh 138 2021 0.1 2.6 36.7 2.1 28.4 0.00 119 Assam 0 0.00 Manipur 183 279 2.6 5.4 0.0 0.00 NER 0.65 Meghalaya Mizoram Nagaland -0.1 0.00 302 0.1 0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	41.8	7.2	-24.1
Day Peak (MW)	1950.0	334.4	-1050.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD	(+)/UD(-)					
	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.7	-148.0	15.3	-106.2	-8.7	0.0
Actual(MU)	227.1	-124.5	5.2	-95.4	-7.5	4.9
O/D/U/D(MII)	-20.5	23.5	-10.1	10.0	1.2	40

F. Generation Outage(MW)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3612	13186	6198	2305	822	26122	43
State Sector	8180	17031	7040	2712	295	35257	57
Total	11702	20216	12220	5017	1117	61390	100

11/92	30210	13430	3017	1117	01300	100
NR	WR	SR	ER	NER	All India	% Share
627	1131	491	541	13	2802	65
28	12	65	0	0	105	2
343	20	47	118	34	561	13
30	33	67	0	0	130	3
15	6	9	0	22	53	1
113	196	363	6	1	679	16
1155	1399	1042	664	70	4329	100
9.81	14.02	34.86	0.83	0.86	15.68	i
42.04	17.82	45.82	18.55	49.38	31.64	Ì
	NR 627 28 343 30 15 113 1155	NR WR 627 1131 28 12 343 20 330 33 15 6 113 196 1155 1399 9.81 14.02	NR WR SR 627 1131 491 28 12 65 343 20 47 30 33 67 15 6 9 113 196 363 1155 1399 1042 9.81 14.02 34.86	NR WR SR ER 627 1131 491 541 28 12 65 0 343 20 47 118 30 33 67 0 15 6 9 0 113 196 363 6 1155 1399 1042 664 9.81 14.02 34.86 0.83	NR WR SR ER NER 627 1131 491 541 13 28 12 65 0 0 343 20 47 118 34 30 33 67 0 0 0 15 6 9 0 22 113 196 363 6 1 1155 1399 1042 664 70 9.81 14.02 34.86 0.83 0.86	627 1131 491 541 13 2802 28 12 65 0 0 105 343 20 47 118 34 561 30 33 67 0 0 130 15 6 9 0 22 53 113 196 363 6 1 679 1155 1399 1042 664 70 4329 9.81 14.02 34.86 0.83 0.86 15.68

Based on State Max Demands

1.085

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: 02-Jul-2022

Sl No Impo								
No Impo	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	May Export (MW)	Import (MU)	Date of Reporting: Export (MU)	02-Jul-2022 NET (MU)
шро			No. of Circuit	wax import (wi w)	Max Export (MW)	Import (NIC)	Export (MC)	NEI (MC)
1	ort/Export of ER (\) HVDC	ALIPURDUAR-AGRA	2	0	1002	0.0	24.0	-24.0
2		PUSAULI B/B	÷	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	493	163	4.9	0.0	4.9
5	765 kV	SASARAM-FATEHPUR	1 1	10	339	0.0	4.3 9.5	-4.3
6		GAYA-BALIA PUSAULI-VARANASI	1	0	614 62	0.0	0.7	-9.5 -0.7
7		PUSAULI -ALLAHABAD	i	4	53	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	13.6	-13.6
9		PATNA-BALIA	2	0	597	0.0	10.4	-10.4
10		NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2	0	640 524	0.0	10.9 7.6	-10.9
12		MOTIHARI-GORAKHPUR	2	0	524 473	0.0	7.2	-7.6 -7.2
13		BIHARSHARIFF-VARANASI	2	161	203	0.0	0.1	-0.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	169	0.0	3.0	-3.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16 17	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	25 0	0 41	0.2 0.0	0.0	0.2 0.0
18	132 kV	KARMANASA-CHANDAULI	i	Ŏ	0	0.0	0.0	0.0
					ER-NR	5.2	92.9	-87.7
	ort/Export of ER (With WR)			_			
1		JHARSUGUDA-DHARAMJAIGARH	4	629	0	26.3	0.0	26.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1417	0	23.1	0.0	23.1
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	0.7	-0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.9	-6.9
5	400 kV	RANCHI-SIPAT	2	256	140	2.9	0.0	2.9
6	220 kV	BUDHIPADAR-RAIGARH	1	15	96	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	155	11 ED WD	1.7	0.0	1.7
Impo	ort/Export of ER (With SR)			ER-WR	53.9	9.5	44.4
1	HVDC	JEYPORE-GAZUWAKA B/B	2	335	0	8.0	0.0	8.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2977	0.0	52.2	-52.2
5	400 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	2	578 2	117	8.5 0.0	0.0	8.5 0.0
-3-	220 kV	DALEMELA-UFFER-SILEKKU	1 1	<u> </u>	0 ER-SR	8.0	88.4	-80.4
Impo	ort/Export of ER (
1	400 kV	BINAGURI-BONGAIGAON	2	0	487	0.0	7.0	-7.0
2		ALIPURDUAR-BONGAIGAON	2	39	542	0.0	7.0	-7.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	141 ER-NER	0.0	2.2 16.3	-2.2 -16.3
Impo	ort/Export of NER	(With NR)			EK-11EK	U.U		-10.3
1		BISWANATH CHARIALI-AGRA	2	0	1005	0.0	24.4	-24.4
		avia sm			NER-NR	0.0	24.4	-24.4
1mpo	ort/Export of WR (HVDC			0	1528	0.0	19.8	-19.8
2	HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B		442	0	7.6	0.0	7.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	721	0.0	7.9	-7.9
4	765 kV	GWALIOR-AGRA	2	392	1728	0.4	26.1	-25.7
5		GWALIOR-PHAGI	2	0	1226	0.0	19.9	-19.9
7		JABALPUR-ORAI GWALIOR-ORAI	2	15 651	699 0	0.0 12.6	20.7 0.0	-20.7 12.6
8	765 kV	SATNA-ORAI	1	0	913	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1399	403	5.4	0.0	5.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3103	0.0	61.0	-61.0
11	400 kV	ZERDA-KANKROLI	1	320	53	2.2	0.0	2.2
12	400 kV	ZERDA -BHINMAL	1 1	465	53 97	2.2 4.5	0.0	4.5
12 13	400 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1 1 1 2	465 961	53 97 0	2.2 4.5 21.8		4.5 21.8
12 13 14 15	400 kV 400 kV 400 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	1 1 1 2	465 961 0	53 97 0 0	2.2 4.5 21.8 0.0 0.0	0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0
12 13 14 15 16	400 kV 400 kV 400 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	1 1 1 2 1 1	465 961 0 0	53 97 0 0 0 30	2.2 4.5 21.8 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 2.2	4.5 21.8 0.0 0.0 -2.2
12 13 14 15 16 17	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RAPPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 1 2 1 1 1	465 961 0 0 0 117	53 97 0 0 0 30	2.2 4.5 21.8 0.0 0.0 0.0 0.6	0.0 0.0 0.0 0.0 2.2 0.0	4.5 21.8 0.0 0.0 -2.2 0.6
12 13 14 15 16 17	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1 2 1 1 1 1 1	465 961 0 0 117 86	53 97 0 0 0 0 30 5	2.2 4.5 21.8 0.0 0.0 0.0 0.0 0.6 1.1	0.0 0.0 0.0 0.0 2.2 0.0 0.0	4.5 21.8 0.0 0.0 -2.2 0.6 1.1
12 13 14 15 16 17	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RAPPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 1 1 2 1 1 1 1 1 2	465 961 0 0 0 117	53 97 0 0 0 30 0 5 5	2.2 4.5 21.8 0.0 0.0 0.0 0.6	0.0 0.0 0.0 0.0 2.2 0.0 0.0 0.0	4.5 21.8 0.0 0.0 -2.2 0.6
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 1 1	465 961 0 0 0 117 86	53 97 0 0 0 30 0 5	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1	0.0 0.0 0.0 0.0 2.2 0.0 0.0	4.5 21.8 0.0 0.0 -2.2 0.6 1.1 0.0
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR)	1 1 1 1 1	465 961 0 0 0 117 86 0	53 97 0 0 0 0 30 0 5 0 WR-NR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3	0.0 0.0 0.0 0.0 0.0 2.2 0.0 0.0	4.5 21.8 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 144 kV 145 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 1 1 1	465 961 0 0 0 117 86 0	53 97 0 0 0 30 0 5 5	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 175.2	4,5 21.8 0,0 0.0 0.0 -2.2 0,6 1.1 0.0 13.1 -106.0
12 13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (HVDC HVDC 765 kV	ZERDA -BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAJGHAT-LALITPUR WITH SRIP BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR	1 1 1 1 1 1 2	465 961 0 0 0 117 86 0	53 97 0 0 0 30 5 0 WR-NR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3	0.0 0.0 0.0 0.0 0.0 2.2 0.0 0.0 0.0 175.2 7.2 0.0 7.3	4.5 21.8 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0
12 13 14 15 16 17 18 19 20 Impo 1 2 3	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 152 kV 154 kV 155 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA WILIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WITH SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 1 1 1 1 2 2	465 961 0 0 0 117 86 0 0 0 0 2879 1240 0	53 97 0 0 0 30 0 5 0 WR-NR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4	400 kV 400 kV 200 kV 220 kV 220 kV 220 kV 132 kV 132 kV 135 kV 140 kV 155 kV 165 kV 165 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WARAN BHANPURA-WARAN MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUAGLUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	1 1 1 1 1 1 2 2 2 2 2 2	465 961 0 0 0 117 86 0 0 0 0 2879 1240 0 1529	53 97 0 0 0 30 0 5 0 0 WR-NR 312 0 1567 2611 0	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 175.2 7.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.5 21.8 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 152 kV 152 kV 153 kV 154 kV 155 kV 165 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAIMADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGABH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	1 1 1 1 1 1 2 2	465 961 0 0 0 117 86 0 0 2879 1240 0 1529 0	53 97 0 0 0 30 0 5 0 WR-NR 312 0 1567 2611 0	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0	0.0 0.0 0.0 0.0 0.0 2.2 0.0 0.0 0.0 175.2 7.2 0.0 7.3 33.3 0.0	4.5 21.8 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 33.3 24.4 0.0
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA -BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WARAN BHANPURA-WARAN MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUAGLUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	1 1 1 1 1 1 2 2 2 2 2 2	465 961 0 0 0 117 86 0 0 0 0 2879 1240 0 1529	53 97 0 0 0 0 30 5 0 WR-NR 312 0 1567 2611 0 0	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 2.2.5 -33.3 24.4 0.0 0.0
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHCAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA WISH SRI BHADRAWATI B/B BHADRAWATI B/B RAIGARI-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	1 1 1 1 1 1 2 2 2 2 2 2	465 961 0 0 0 117 86 0 0 0 12879 1240 0 0 0	53 97 0 0 0 30 0 5 0 WR-NR 312 0 1567 2611 0 0	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 33.3 24.4 0.0 0.0 1.7 2.6,7
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA MALANPUR- AURAIYA MALANPUR- AURAIYA WITH SHORT SHO	1 1 1 1 1 1 2 2 2 2 2 2	465 961 0 0 0 1117 86 0 0 0 0 2879 1240 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 5 0 WR-NR 312 0 1567 2611 0 0	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 1.3.1 -106.0 -7.2 4.3.6 -2.5 -3.3.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve)
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA WISHOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WISH SR BHADRAWATI B/B BHADRAWATI B/B SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 1	465 961 0 0 0 117 86 0 0 0 117 86 0 0 12879 1240 0 1529 0 0 0 CHANGES	53 97 0 0 0 30 0 5 0 0 WR-NR 312 0 1567 2611 0 0 0 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.0 1.7 74.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR HVDC HVDC 765 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA- RANPUR BHANPURA- RANPUR BHANPURA- MORAK MEHGAON-AURAIYA MALANPUR- AURAIYA MALANPUR- AURAIYA MALANPUR- AURAIYA WITH SHORT SHO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	465 961 0 0 10 117 86 0 0 2879 1240 0 1529 0 0 CCHANGES	53 97 0 0 0 0 30 5 0 WR-NR 312 0 1567 2611 0 0	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 1.3.1 -106.0 -7.2 4.3.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve)
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA WISHOR-SAWAI MADHOPUR RAJGHAT-LALITPUR WISH SR BHADRAWATI B/B BHADRAWATI B/B SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-MBEWADI XELDEM-AMBEWADI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 1	465 961 0 0 0 117 86 0 0 117 86 0 0 12879 1240 0 1529 0 0 0 CHANGES Name	53 97 0 0 0 30 0 5 0 0 WR-NR 312 0 1567 2611 0 0 0 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.0 1.7 74.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange
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12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA WITH SHORT	1	465 961 0 0 117 186 0 0 0 2879 1240 0 1529 0 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 0 5 5 0 WR-NR 312 0 1567 2611 0 0 0 8 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.0 1.7 74.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 2.5 -33.3 -24.4 0.0 0.7 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0
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12 13 14 15 16 17 18 19 20 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 of HVDC HVDC T65 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR of HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	465 961 0 0 0 117 86 0 0 117 86 0 0 0 12879 1240 0 1529 0 0 0 0 0 CCHANGES Name HU-ALIPURDUAR AR RECEIPT (from 44180MW) URI 12,4 (& 400kW) URI 12,4 (& 400kW) URI 12,4 (& 400kW) AI HAP (6°170MW) PARA 182 (& 220kW	53 97 0 0 0 0 30 0 5 0 WR-NR 312 0 1567 2611 0 0 0 8 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.0 1.7 74.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0
12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV ort/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 220 kV 400 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA WITH SHORT	1	465 961 0 0 0 117 86 0 0 0 2879 1240 0 1529 0 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 0 5 5 0 WR-NR 312 0 1567 2611 0 0 0 8 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.0 1.7 74.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 2.5 -33.3 -24.4 0.0 0.7 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0
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12 13 14 15 16 17 18 19 20 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 of HVDC HVDC T65 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR of HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	1	465 961 0 0 0 117 86 0 0 0 2879 1240 0 1529 0 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 0 5 0 WR-NR 312 0 1567 2611 0 0 0 8 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.0 1.7 74.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0
12 13 14 15 16 17 18 19 20 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 of HVDC HVDC T65 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV ort/Export of WR of HVDC T65 kV 400 kV 220 kV 220 kV 220 kV	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA WITH SHORT	1	465 961 0 0 0 117 86 0 0 0 2879 1240 0 1529 0 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 0 5 5 0 WR-NR 312 0 1567 2611 0 0 0 98 WR-SR	2.2 4.5 21.8 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 1.7 74.5 Min (MW)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0 25.4 3.8
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12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR of HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPURA-URAHYA MALANPURA-URAHYA MALANPURA-URAHYA BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B RAIGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AUBAWADI XELDEM-AMBEWADI XELDEM-AMBE	TERNATIONAL EX TERNATIONAL EX 1 1 1 2 2 2 2 2 2 2 1 1 TERNATIONAL EX Line 400KV MANGDECHI 1,283 i.e. ALIPURDU MANGDECHU HEP 400KV TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRPAB RECEIPT (from TAL 220KV CHUKHIA-BIR RECEIPT (from TAL 23KV GELEPHU-SA 132KV MAHENDRA TANAKPUR(NHPC) NEPAL IMPORT (FE	465 961 0 0 0 0 117 86 0 0 0 2879 1240 0 129 0 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 0 30 0 5 5 0 WR-NR 312 0 1567 2611 0 0 0 98 WR-SR Max (MW) 604 1107 210 -28 -56 -55	2.2 4.5 21.8 0.0 0.0 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 1.7 74.5 Min (MW) 571 0 -8 -23	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 -2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 226.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0 25.4 3.8 -0.4 -0.9 -0.7
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12 13 14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR of HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	TERNATIONAL EX TERNATIONAL EX 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 2 2 2 2	465 961 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 0 5 0 WR-NR 312 0 1567 2611 0 0 0 WR-SR Max (MW) 604 1107 210 -28 -56 -55	2.2 4.5 21.8 0.0 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.1 774.5 Min (MW) 571 0 -8 -23	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0 25.4 3.8 -0.4 -0.9 -0.7 -0.4 -0.4 -0.8
112 13 14 15 16 16 17 18 19 20 1 1 2 2 3 4 4 4 5 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV rt/Export of WR of HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	ZERDA - BHINMAL VINDHYACHAL - RHIAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAJGARB-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER		465 961 0 0 0 0 0 0 0 0 0	53 97 0 0 0 0 30 0 5 0 WR-NR 312 0 1567 2611 0 0 0 WR-SR Max (MW) 604 1107 210 -28 -56 -55	2.2 4.5 21.8 0.0 0.0 0.0 0.0 0.6 1.1 0.0 13.1 69.3 0.0 43.6 4.8 0.0 24.4 0.0 0.1 774.5 Min (MW) 571 0 -8 -23	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.5 21.8 0.0 0.0 0.0 2.2 0.6 1.1 0.0 13.1 -106.0 -7.2 43.6 -2.5 -33.3 24.4 0.0 0.0 1.7 26.7 +ve)/Export(-ve) Energy Exchange (MU) 14.0 25.4 3.8 -0.4 -0.9 -0.7 -0.4 -0.4 -0.8