

## **National Load Despatch Centre** राष्ट्रीय भार प्रेषण केंद्र **GRID CONTROLLER OF INDIA LIMITED** ग्रिड कंटोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24<sup>th</sup> October 2023

To,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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., एफ ३-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –४०००९३ 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 23.10.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक २३-अक्टूबर-२०२३ 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 23<sup>th</sup> October 2023, is available at the NLDC website.

धन्यवाद.

## ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



A. Power Supply Position at All India and Regional level

Report for previous day Date of Reporting: 24-Oct-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	51659	61443	45259	20003	2536	180900
Peak Shortage (MW)	50	0	0	0	0	50
Energy Met (MU)	1126	1514	1132	444	48	4264
Hydro Gen (MU)	164	40	50	46	21	320
Wind Gen (MU)	10	43	35	-	-	88
Solar Gen (MU)*	123.40	64.17	120.27	2.63	0.96	311
Energy Shortage (MU)	0.21	0.00	0.00	0.00	0.00	0.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55113	71514	55511	20622	2746	199617
Time Of Maximum Demand Met	18:28	11:02	10:50	18:17	17:32	10:50

B. Frequency Profile	(%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.032	0.00	0.00	2.42	2.42	76.02	21.56

C. Power Supply Position in States

Region	States	Max.Demand Met during the	Shortage during maximum	Energy Met	Drawal Schedule	OD(+)/UD(-)	Max OD	Energy Shortage (MU)
Kegion	States	day (MW)	Demand (MW)	(MU)	(MU)	(MU)	(MW)	Snortage (MU)
	Punjab	7178	0	142.5	48.8	-0.8	181	0.00
	Haryana	7329	0	150.9	96.9	-1.4	199	0.00
	Rajasthan	14235	0	285.5	87.6	-3.0	157	0.00
	Delhi	3979	0	76.9	65.4	-0.5	261	0.00
NR	UP	18040	0	342.2	123.0	1.2	975	0.00
	Uttarakhand	1935	0	37.9	26.0	0.0	186	0.00
	HP	1768	0	32.6	21.4	-0.2	44	0.01
	J&K(UT) & Ladakh(UT)	2431	0	50.4	37.4	4.8	358	0.20
	Chandigarh	196	0	3.5	3.7	-0.2	4	0.00
	Railways_NR ISTS	174	0	3.4	3.7	-0.3	5	0.00
	Chhattisgarh	4912	0	108.3	47.7	-1.5	128	0.00
	Gujarat	21355	0	426.4	191.2	-0.3	474	0.00
	MP	14272	0	298.9	184.8	-4.4	445	0.00
WR	Maharashtra	28094	0	607.6	284.2	-5.1	896	0.00
	Goa	675	0	13.9	13.0	0.8	45	0.00
	DNHDDPDCL	1213	0	28.3	28.4	-0.1	23	0.00
	AMNSIL	803	0	18.1	9.3	0.1	199	0.00
	BALCO	525	0	12.5	12.5	0.0	10	0.00
	Andhra Pradesh	11986	0	229.8	92.0	-0.2	604	0.00
	Telangana	12661	0	264.5	138.6	-2.5	462	0.00
SR	Karnataka	14383	0	253.4	93.4	-2.7	671	0.00
	Kerala	3566	0	75.4	62.7	0.7	178	0.00
	Tamil Nadu	14051	0	300.4	178.7	-1.0	358	0.00
	Puducherry	359	0	8.3	8.0	-0.4	23	0.00
	Bihar	4965	0	100.4	92.3	-1.3	140	0.00
	DVC	3019	0	66.8	-38.0	1.0	380	0.00
	Jharkhand	1594	0	29.8	24.7	-3.2	197	0.00
ER	Odisha	4623	0	102.1	31.8	-2.2	312	0.00
	West Bengal	6752	0	143.6	12.7	-1.8	447	0.00
	Sikkim	60	0	0.8	0.8	0.0	23	0.00
	Railways_ER ISTS	21	0	0.2	0.1	0.0	16	0.00
	Arunachal Pradesh	145	0	2.3	2.3	-0.2	20	0.00
	Assam	1564	0	28.1	20.0	0.3	111	0.00
	Manipur	190	0	2.5	2.6	-0.2	33	0.00
NER	Meghalaya	317	0	5.9	4.3	-0.2	35	0.00
	Mizoram	125	0	1.8	1.5	-0.2	15	0.00
	Nagaland	145	0	2.4	2.4	-0.2	13	0.00
	Tripura	291	0	5.3	4.7	-0.1	44	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	9.3	17.1	-25.0	-25.2
Day Peak (MW)	422.5	861.0	-1080.0	-1251.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.9	-130.0	137.8	-154.2	-9.1	-5.5
Actual(MU)	147.4	-90.6	144.4	-196.8	-7.2	-2.8
O/D/U/D(MU)	-2.5	39.3	6.7	-42.6	1.9	2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4984	9142	3508	3966	235	21834	50
State Sector	5861	10205	4491	1880	121	22557	50
Total	10845	19346	7999	5846	356	44391	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	692	1511	696	655	12	3566	77
Lignite	24	19	57	0	0	100	2
Hydro	164	40	50	46	21	320	7
Nuclear	21	54	71	0	0	146	3
Gas, Naptha & Diesel	14	22	6	0	28	69	1
RES (Wind, Solar, Biomass & Others)	137	109	183	4	1	434	9
Total	1052	1754	1064	704	62	4636	100
							1
Share of RES in total generation (%)	13.06	6.20	17.22	0.53	1.55	9.36	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.66	11.51	28.55	7.06	35.17	19.41	

H. All India Demand Diversity Factor	
D1 D1-M D1-	

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.029
Based on State Max Demands	1.051

I. All India Peak	Demand ar	nd shortage	at Solar and l	Non-Solar Hour
	ì	D 117	A CR STEEL	

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199617	10:50	0
Non-Solar hr	189514	18:31	50

 $Diversity\ factor = Sum\ of\ regional\ or\ state\ maximum\ demands\ /\ All\ India\ maximum\ demand$ 

<sup>\*\*</sup>Note: All generation MU figures are gross
\*\*\*Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

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

## INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 24-Oct-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
_	t/Export of ER (							
2	HVDC HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	701 49	0.0	17.8 0.0	-17.8 0.0
3	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	0	834 535	0.0	12.1 9.0	-12.1 -9.0
5	765 kV 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0 27	522 34	0.0	9.5 0.0	-9.5 0.0
7	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	76 552	0.0	1.0 9.1	-1.0 -9.1
9	400 kV	PATNA-BALIA	2	0	453	0.0	7.9	-7.9
10 11	400 kV 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0 109	485 205	0.0	8.1 2.4	-8.1 -2.4
12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 2	0 31	336 301	0.0	5.4 4.0	-5.4 -4.0
14 15	220 kV 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	10	97 0	0.0	1.6 0.0	-1.6 0.0
16 17	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	30	0	0.5	0.0 0.0	0.5 0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0	0.0 87.8	0.0 -87.3
Impor	t/Export of ER (							
2	765 kV 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	295 160	412 746	0.0	1.9 5.0	-1.9 -5.0
3	765 kV 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	0	751 734	0.0	14.6 12.5	-14.6 -12.5
5	400 kV 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	2	0	321 147	0.0	3.9 2.6	-3.9 -2.6
7	220 kV	BUDHIPADAR-KORBA	2	116	66	0.3	0.0	0.3
Impor	t/Export of ER (	With SR)			ER-WR	0.3	40.6	-40.3
1 2	HVDC HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	555 1643	0.0	12.6 37.4	-12.6 -37.4
3	765 kV 400 kV	ANGUL-SRIKAKULAM	2 2	0 407	2536 0	0.0 7.3	54.2 0.0	-54.2 7.3
5	220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
Impor	t/Export of ER (	With NER)			ER-SR	0.0	104.2	-104.2
1 2	400 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0 244	402 279	0.0	6.2 2.1	-6.2 -2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	22	72	0.0	0.9	-0.9
Impor	t/Export of NER	(With NR)			ER-NER	0.0	9.1	-9.1
1		BISWANATH CHARIALI-AGRA	2	0	706 NER-NR	0.0	16.8 16.8	-16.8 -16.8
	t/Export of WR (							
2	HVDC HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	5	0 54	0.0	0.0 1.2	0.0 -1.2
3	HVDC 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0 178	1170 931	0.0	28.0 10.3	-28.0 -10.1
5	765 kV 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2	0	1659 595	0.0	24.9 16.5	-24.9 -16.5
7 8	765 kV 765 kV	GWALIOR-ORAI SATNA-ORAI	1	916 0	0 943	15.7 0.0	0.0 18.4	15.7 -18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2377	0	35.6	0.0	35.6
10 11	765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	0 354	1842 0	0.0 5.7	32.5 0.0	-32.5 5.7
12	400 kV	ZERDA -BHINMAL	1	708	0	8.1	0.0	8.1
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.7	0.0	21.7
13 14	400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	1 2 1	957 535 0	0 233 146	21.7 3.6 0.0	0.0 0.9 2.6	21.7 2.7 -2.6
13 14 15 16	400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK		535 0 0	233 146 30	3.6 0.0 0.0	0.9 2.6 2.0	2.7 -2.6 -2.0
13 14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	2	535 0 0 120 89	233 146 30 0	3.6 0.0 0.0 1.8 1.3	0.9 2.6 2.0 0.0 0.0	2.7 -2.6 -2.0 1.8 1.3
13 14 15 16 17	400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	2 1 1 1	535 0 0 120	233 146 30 0 0 0	3.6 0.0 0.0 1.8 1.3 0.0	0.9 2.6 2.0 0.0 0.0 0.0	2.7 -2.6 -2.0 1.8 1.3 0.0
13 14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 1 1	535 0 0 120 89	233 146 30 0 0	3.6 0.0 0.0 1.8 1.3 0.0	0.9 2.6 2.0 0.0 0.0 0.0	2.7 -2.6 -2.0 1.8 1.3 0.0
13 14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	2 1 1 1 1 1	535 0 0 120 89	233 146 30 0 0 0 WR-NR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6	0.9 2.6 2.0 0.0 0.0 0.0	2.7 -2.6 -2.0 1.8 1.3 0.0 -43.7
13 14 15 16 17 18 19 20 Import 1 2 3	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR ( HVDC HVDC 765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 1 1 1 1 1 1 2 2	535 0 0 120 89 0 0 0	233 146 30 0 0 0 WR-NR 505 3006 76	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1	0.9 2.6 2.0 0.0 0.0 0.0 137.3	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7 -9.6 -59.0 13.1
13 14 15 16 17 18 19 20 Import 1 2 3 4	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 17/Export of WR ( HVDC HVDC 765 kV 765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIORS-SWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW)	2 1 1 1 1 1 1 2 2	535 0 0 120 89 0 0 0 1394 0 0	233 146 30 0 0 0 WR-NR 505 3006 76 1712 0	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1 0.0	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 17/Export of WR ( HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 1394 0 0 1506	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1 0.0 0.0 13.1 0.0 0.0	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7 -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0
13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR ( HVDC 765 kV 765 kV 400 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 1394 0 0 1506	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0	0.9 2.6 2.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 0.0	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1	535 0 0 120 89 0 0 0 1394 0 0 1506 0	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 0	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1 0.0 0.0 13.1 0.0 0.0	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 0.0 130.8	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 40 kV 40 kV 400 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC	535 0 0 120 89 0 0 0 1394 0 0 1506 0 0	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC	535 0 0 120 89 0 0 0 1394 0 0 1506 0	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 130.8  Import( Avg (MW)	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve)
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 40 kV 40 kV 400 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC	535 0 0 120 89 0 0 0 0 0 1394 0 0 1506 0 0 0 CHANGES Name	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 40 kV 40 kV 400 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region  ER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1  TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIP/ HEP 4*180MW) 400kV TALA-BINAGURI	535 0 0 120 89 0 0 0 0 0 0 1394 0 0 1506 0 0 0 1506 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  Energy Exchange (MU) 2.80
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 40 kV 40 kV 400 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 1394 0 0 1506 0 0 0 1506 0 0 17,24 (& 400kV I) i.e. BINAGURI	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6 0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 28.3 43.8	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 130.8  Import( Avg (MW)	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  Energy Exchange (MU)
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 40 kV 40 kV 400 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region  ER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 1394 0 0 1506 0 0 0 1506 0 0 1506 1506 0 1506 1506	233 146 30 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  Energy Exchange (MU) 2.80
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 152 kV 152 kV 152 kV 155 kV 15	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 WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region  ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 1394 0 0 1394 0 0 0 1506 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6=170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW)	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 152 kV 152 kV 152 kV 155 kV 15	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 WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region  ER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 1394 0 0 1394 0 0 0 1506 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6=170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW)	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 152 kV 152 kV 152 kV 155 kV 15	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  IN  Region  ER  ER  ER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 0 1394 0 0 1506 0 0 0 0 1506 0 1506 0 1506 0 1506 0 1506 0 0 1506 0 0 1506 0 0 1506 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80 8.11 -2.31
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 152 kV 152 kV 152 kV 155 kV 15	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIORS-SWAI MADHOPUR RAJGHAT-LALITPUR  With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 0 1394 0 0 1506 0 0 0 0 1506 0 1506 0 1506 0 1506 0 1506 0 0 1506 0 0 1506 0 0 1506 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  Energy Exchange (MU) 2.80  8.11
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 152 kV 152 kV 152 kV 155 kV 15	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  IN  Region  ER  ER  ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 0 1394 0 0 1506 0 0 0 0 1506 0 1506 0 1506 0 1506 0 1506 0 0 1506 0 0 1506 0 0 1506 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11  -2.31
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI  IN  Region  ER  ER  NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 0 1394 0 0 1596 0 0 0 1506 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGECHU 11,2,4 (& 400kV I) i.e. BINAGURI EP 6*179MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 152 kV 152 kV 152 kV 155 kV 15	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI  IN  Region  ER  ER  NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 1394 0 0 1394 0 0 0 1506 0 0 0 1506 0 0 1506 1506 0 1506 0 0 11,2,4 (& 400kV I) 1,e, BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e, BIRPARA RECEIPT 34MW) KATI GIA	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266	0.9 2.6 2.0 0.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI  ER  ER  NER  NER  NER	2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	535   0   0   120   89   0   0   0   0   0   0   0   0   0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266 -81 -12	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05 0.61 1.63
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI  IN  Region  ER  ER  NER  NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535   0   0   120   89   0   0   0   0   0   0   0   0   0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266 -81	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  Energy Exchange (MU) 2.80  8.11 -2.31 0.05
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	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 WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI  ER  ER  NER  NER  NER	2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	535 0 0 120 89 0 0 0 0 0 0 0 1394 0 0 1506 0 0 1506 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) 4 BIHAR)	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266 -81 -12	0.9 2.6 2.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05 0.61 1.63
13 14 15 16 17 18 19 20 Impor  1 2 3 4 5 6 7 8 9	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	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 WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  IN  Region  ER  ER  NER  NER  NER  ER  ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535   0   0   120   89   0   0   0   0   0   0   0   0   0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35 0 0 861	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266  -81 -12 0 0 0 465	0.9 2.6 2.0 0.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96  2  25  0  0  643	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05 0.61 1.63 0.00 15.44 -22.04
13 14 15 16 17 18 19 20 Impor  1 2 3 4 5 6 7 8 9	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI  ER  ER  NER  NER  NER  ER  ER	2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	535   0   0   120   89   0   0   0   0   0   0   0   0   0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35	3.6 0.0 0.0 1.8 1.3 0.0 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266 -81 -12 0	0.9 2.6 2.0 0.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96  2  25  0  0  643	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05 0.61 1.63 0.00
13 14 15 16 17 18 19 20 Impor  1 2 3 4 5 6 7 8 9	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI  ER  ER  ER  NER  NER  LER  ER  ER  ER  ER  ER  LER  ER  LER  ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535   0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35 0 0 861 -919	3.6 0.0 0.0 1.8 1.3 0.0 0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266 -81 -12 0 0 0 465	0.9 2.6 2.0 0.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96  2  25  0  0  643  -918	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05 0.61 1.63 0.00 15.44 -22.04
13 14 15 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7 8 9	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR ( HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WAROHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER  ER  NER  NER  ER  ER  ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	535   0	233 146 30 0 0 0 0 WR-NR  505 3006 76 1712 0 0 0 114 WR-SR  Max (MW)  164 305 -122 4 35 0 0 861	3.6 0.0 0.0 1.8 1.3 0.0 0.0 93.6  0.0 0.0 93.6  0.0 0.0 13.1 0.0 0.0 28.3 0.0 0.0 2.3 43.8  Min (MW)  73 266  -81 -12 0 0 0 465	0.9 2.6 2.0 0.0 0.0 0.0 0.0 0.0 137.3  9.6 59.0 0.0 29.0 33.2 0.0 0.0 0.0 130.8  Import( Avg (MW)  117  305  -96  2  25  0  0  643	2.7 -2.6 -2.0 1.8 1.3 0.0 0.0 0.0 -43.7  -9.6 -59.0 13.1 -29.0 -33.2 28.3 0.0 0.0 2.3 -87.0  +ve)/Export(-ve) Energy Exchange (MU) 2.80  8.11 -2.31 0.05 0.61 1.63 0.00 15.44 -22.04

## CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 24-Oct-2023

Export From India (in MU)

		T-GNA							
Country	GNA (ISGS/PPA)	COLLECTIVE							
		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.03
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.03

Import by India(in MU)

	T-GNA								
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	8.40	0.00	1.15	0.00	0.00	0.00	0.00	0.00	9.55
Nepal	2.63	0.00	12.51	0.00	0.00	0.00	0.00	0.00	15.14
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	11.03	0.00	13.66	0.00	0.00	0.00	0.00	0.00	24.69

Net from India(in MU) -ve : Export / +ve : Import T-GNA COLLECTIVE **GNA** (ISGS/PPA) IDAM TOTAL BILATERAL RTM Country TOTAL IEX PXIL HPX IEX PXIL HPX 8.40 0.00 1.15 0.00 0.000.00 9.55 Bhutan 0.000.002.63 0.00 12.51 0.00 0.00 0.000.00 0.0015.14 Nepal -22.03 0.00Bangladesh 0.000.000.000.000.000.00-22.03 0.00 0.000.00 0.000.000.000.00 0.000.00 Myanmar **Total Net** -11.00 0.0013.66 0.00 0.000.00 0.002.66 0.00