

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंट्रोलर 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: 16th September 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
- 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 15.09.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-सितम्बर-2023 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 15th September 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 16-Sep-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	69841	58116	47429	26297	3340	205023
Peak Shortage (MW)	295	0	0	447	319	1061
Energy Met (MU)	1566	1380	1192	585	72	4795
Hydro Gen (MU)	345	61	59	112	32	609
Wind Gen (MU)	9	89	179	-	-	278
Solar Gen (MU)*	105.48	37.43	111.08	4.95	1.32	260
Energy Shortage (MU)	1.79	0.00	0.00	4.51	1.94	8.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72742	63931	58307	27327	3670	210789
Time Of Maximum Demand Met	00:00	10:00	11:57	20:42	18:22	11:51

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	0.033	0.00	0.86	4 98	5.83	75 96	18 20

C. Power Supply Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day (MW)	maximum Demand (MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	13042	0	276.5	173.6	-4.5	272	0.00
	Haryana	11434	155	236.5	183.0	-2.0	245	1.57
	Rajasthan	14371	0	307.7	120.4	-3.6	344	0.00
	Delhi	6404	0	131.3	115.9	-2.3	241	0.00
NR	UP	24425	0	476.3	202.0	-0.7	550	0.00
	Uttarakhand	2238	0	45.8	23.0	-0.6	144	0.00
	HP	1736	0	35.0	6.8	-0.9	78	0.01
	J&K(UT) & Ladakh(UT)	2486	0	47.2	24.2	-0.5	231	0.21
	Chandigarh	299	0	6.6	7.0	-0.4	20	0.00
	Railways_NR ISTS	176	0	3.6	3.5	0.1	22	0.00
	Chhattisgarh	4370	0	92.8	39.3	-2.5	226	0.00
	Gujarat	22153	0	461.8	219.5	-4.1	687	0.00
	MP	10844	0	223.1	100.1	-3.6	815	0.00
WR	Maharashtra	24771	0	527.2	196.2	-1.9	639	0.00
	Goa	689	0	14.5	14.4	-0.1	43	0.00
	DNHDDPDCL	1301	0	29.9	29.9	0.0	62	0.00
	AMNSIL	798	0	18.0	8.1	0.3	374	0.00
	BALCO	522	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	11447	0	230.9	84.6	-2.0	1024	0.00
	Telangana	13025	0	245.0	127.2	-0.6	526	0.00
SR	Karnataka	14317	0	262.1	94.6	-1.4	642	0.00
	Kerala	3858	0	78.8	64.6	0.7	241	0.00
	Tamil Nadu	16998	0	365.2	157.0	-3.3	437	0.00
	Puducherry	456	0	10.1	9.6	-0.1	42	0.00
	Bihar	7264	0	147.9	147.4	-0.1	419	3.29
	DVC	3591	0	77.4	-44.8	-0.5	188	0.00
	Jharkhand	1713	0	39.1	26.6	4.0	226	1.22
$\mathbf{E}\mathbf{R}$	Odisha	5324	0	116.2	41.9	-0.7	304	0.00
	West Bengal	9237	0	203.3	78.9	-3.0	139	0.00
	Sikkim	95	0	1.4	1.4	0.0	8	0.00
	Railways_ER ISTS	23	0	0.2	0.2	0.0	0	0.00
	Arunachal Pradesh	170	0	3.0	2.9	-0.2	37	0.00
	Assam	2394	0	50.0	39.2	2.7	308	1.37
	Manipur	198	0	2.8	2.7	0.1	29	0.00
NER	Meghalaya	328	31	5.6	0.5	-0.3	67	0.57
	Mizoram	124	0	1.7	1.2	-0.3	28	0.00
	Nagaland	170	0	2.5	2.7	-0.6	29	0.00
	Tripura	335	0	6.1	5.9	0.2	63	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	27.9	9.7	-25.4	-31.5
Day Peak (MW)	1559.0	385.0	-1107.0	-1465.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	335.4	-285.7	96.5	-146.2	0.0	0.0
Actual(MU)	310.6	-259.9	107.4	-154.6	2.6	6.1
O/D/U/D(MU)	-24.8	25.8	10.9	-8.5	2.7	6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3679	9971	3998	500	355	18502	42
State Sector	6390	10305	6112	2967	157	25931	58
Total	10069	20275	10110	3467	512	44433	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	797	1494	663	689	16	3660	71
Lignite	32	14	40	0	0	86	2
Hydro	345	61	59	112	32	609	12
Nuclear	24	54	76	0	0	153	3
Gas, Naptha & Diesel	22	40	6	0	28	96	2
RES (Wind, Solar, Biomass & Others)	122	130	319	6	1	578	11
Total	1341	1792	1164	807	77	5182	100
						_	•
Share of RES in total generation (%)	9.06	7.23	27.41	0.77	1.70	11.15	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.55	13.61	39.00	14.69	42.64	25.85	

H. All India Demand Diversity Factor
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H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.072
Based on State Max Demands	1.105

I. All India Peak	Demand a	and s	shortage at Solar and I	Non-Solar Hour
	,	7	1 3 5 4 (3 5TT)	

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210789	11:51	0
Non-Solar hr	209147	19:20	1116

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

^{**}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

 $[*]Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 16-Sep-2023

$\overline{}$							Date of Reporting:	16-Sep-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	t/Export of ER (V	With NR)						
1	HVDC	ALIPURDUAR-AGRA	2	0	1002	0.0	25.5	-25.5
2	HVDC	PUSAULI B/B		0	146	0.0	3.5	-3.5
4	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	1	283	271 308	0.0	1.5 4.4	-1.5 -4.4
5	765 kV	GAYA-BALIA	1	0	725	0.0	11.9	-11.9
6		PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	114	0.0	1.0	-1.0
8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	158 533	0.0	2.5 8.4	-2.5 -8.4
9	400 kV	PATNA-BALIA	2	0	428	0.0	8.5	-8.5
10	400 kV	NAUBATPUR-BALIA	2	0	443	0.0	8.4	-8.4
11 12	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	107 0	184 295	0.0	1.8 4.8	-1.8 -4.8
13	400 kV	BIHARSHARIFF-VARANASI	2	170	118	0.0	0.3	-0.3
14	220 kV	SAHUPURI-KARAMNASA	1	2	89	0.0	0.4	-0.4
15 16	132 kV 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.0	0.0	0.0
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18		KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
-	./E	Y'A YYD			ER-NR	0.6	82.8	-82.3
Import 1	t/Export of ER (\) 765 kV	With WR) JHARSUGUDA-DHARAMJAIGARH	4	441	1301	0.0	5.9	-5.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1200	301	15.0	0.0	-5.9 15.0
3	765 kV	JHARSUGUDA-DURG	2	0	476	0.0	7.1	-7.1
4	400 kV	JHARSUGUDA-RAIGARH	4	4	339	0.0	3.2	-3.2
6	400 kV 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	2	235 13	163 99	2.0	0.0	2.0 -0.9
7		BUDHIPADAR-KORBA	2	112	0	1.4	0.0	1.4
					ER-WR	18.4	17.1	1.3
Impor	t/Export of ER (V							
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	134	0.0	2.7	-2.7
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1998 2458	0.0	43.7 44.5	-43.7 -44.5
4	400 kV	TALCHER-I/C	2	184	649	0.0	10.4	-10.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ED CD	0.0	0.0	0.0
T	4/E	1/:4L NIED)			ER-SR	0.0	90.9	-90.9
impor	t/Export of ER (V	,	2		522	0.0	8.6	0 4
2	400 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0	522 557	0.0	7.4	-8.6 -7.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	137	0.0	2.1	-2.1
					ER-NER	0.0	18.2	-18.2
_	t/Export of NER							
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0
Inn	t/Evnout of 11/D	With ND			NER-NR	0.0	17.0	-17.0
1mpor	t/Export of WR (HVDC	WIII NK) CHAMPA-KURUKSHETRA	2	0	5551	0.0	75.9	-75.9
2	HVDC	VINDHYACHAL B/B		93	101	2.2	0.3	1.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	32.3	-32.3
5	765 kV 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	226 0	1744 1651	0.1	24.4 28.9	-24.3 -28.9
6	765 kV	JABALPUR-ORAI	2	0	978	0.0	29.5	-28.9 -29.5
7	765 kV	GWALIOR-ORAI	1	705	0	14.2	0.0	14.2
9	765 kV 765 kV	SATNA-ORAI	1 2	0 1986	1018 305	0.0 18.0	21.1	-21.1 18.0
10	765 kV 765 kV	BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2 2	1986	305 3369	18.0 0.0	60.2	18.0 -60.2
11	400 kV	ZERDA-KANKROLI	1	374	30	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	517	151	3.9	0.0	3.9
	400 1 77		-					
13	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	958 14	0 661	22.1 0.0	0.0 7.4	22.1 -7.4
13 14 15	400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR	2	958 14 0	0 661 166	22.1 0.0 0.0	0.0 7.4 2.7	22.1 -7.4 -2.7
13 14 15 16	400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	2 1 1	958 14 0	0 661 166 30	22.1 0.0 0.0 0.0	0.0 7.4 2.7 0.6	22.1 -7.4 -2.7 -0.6
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	958 14 0 0 116	0 661 166 30 0	22.1 0.0 0.0 0.0 1.4	0.0 7.4 2.7	22.1 -7.4 -2.7 -0.6 1.4
13 14 15 16 17 18 19	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	2 1 1 1 1 1	958 14 0 0 116 84 0	0 661 166 30 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0	0.0 7.4 2.7 0.6 0.0 0.0	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0
13 14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	2 1 1 1 1	958 14 0 0 116 84	0 661 166 30 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0	22.1 -7.4 -2.7 -0.6 1.4 0.8 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	958 14 0 0 116 84 0	0 661 166 30 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0	0.0 7.4 2.7 0.6 0.0 0.0	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0
13 14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR)	2 1 1 1 1 1	958 14 0 0 0 116 84 0	0 661 166 30 0 0 0 WR-NR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8
13 14 15 16 17 18 19 20 Import	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR (HVDC HVDC	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR	2 1 1 1 1 1	958 14 0 0 116 84 0 0	0 661 166 30 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0
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 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	958 14 0 0 0 116 84 0 0 0 310 0 1386	0 661 166 30 0 0 0 0 WR-NR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8
13 14 15 16 17 18 19 20 Import	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 17Export of WR (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	2 1 1 1 1 1 1 2 2	958 14 0 0 0 116 84 0 0 310 0 1386 0	0 661 166 30 0 0 0 WR-NR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4
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 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	958 14 0 0 0 116 84 0 0 0 310 0 1386	0 661 166 30 0 0 0 0 WR-NR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8
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 t/Export of WR (HVDC HVDC HVDC 765 kV 400 kV 420 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 KOLHAPUR-KUIDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 1 1 1 1 1 1 2 2	958 14 0 0 0 116 84 0 0 310 0 1386 0 1654 0	0 661 166 30 0 0 0 WR-NR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 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 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 0 310 0 1386 0 1654	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0
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 t/Export of WR (HVDC HVDC HVDC 765 kV 400 kV 420 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1	958 14 0 0 0 116 84 0 0 0 1310 0 1386 0 1654 0 0	0 661 166 30 0 0 0 WR-NR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0
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 t/Export of WR (HVDC HVDC HVDC 765 kV 400 kV 420 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2	958 14 0 0 0 116 84 0 0 0 1310 0 1386 0 1654 0 0	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6
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 t/Export of WR (HVDC HVDC HVDC 765 kV 400 kV 420 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EX	958 14 0 0 0 116 84 0 0 0 1310 0 1386 0 1654 0 0	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange
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 132 kV 135 kV 155 kV 400 kV 220 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2	958 14 0 0 0 116 84 0 0 0 1310 0 1386 0 1654 0 0 0 CHANGES	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 0.0 91.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6
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 132 kV 135 kV 155 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 1 1 1 1 1 1 2 2 2	958 14 0 0 116 84 0 0 0 1310 0 1386 0 1654 0 0 0 CHANGES	0 661 166 30 0 0 0 0 WR-NR 0 4009 1144 2354 0 0 0	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 0.0 91.3	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 155 kV 400 kV 220 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 1 1 1 1 1 1 2	958 14 0 0 14 16 84 0 0 0 1310 0 1386 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 0.0 91.3 Import(Avg (MW)	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU)
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 155 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP HEP 4*180MW) 400kV TALA-BINAGUR	958 14 0 0 14 16 84 0 0 0 18 310 0 1386 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW)	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 155 kV 400 kV 220 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIPHEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR	958 14 0 0 14 0 16 84 0 0 0 18 310 0 1386 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 0.0 91.3 Import(Avg (MW)	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU)
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-KUDGI 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 EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR RECEIPT (from TALA F 220kV CHUKHA-BIRPA 220kV CHUKHA-BIRPA	958 14 0 0 0 116 84 0 0 0 116 84 0 0 0 1386 0 1386 0 1654 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	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 155 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 KOLHAPUR-KUDGI 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 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP HEP 4*180MW 400kV TALA-BINAGUR MALBASE - BINAGUR RECEIPT (IYON TALA E RECEIPT (IYON TALA E RECEIPT (IYON TALA E MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BIRARA)	958 14 0 0 14 0 15 16 84 0 0 0 1884 0 0 1886 0 1886 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW)	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-KUDGI 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 EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR RECEIPT (from TALA F 220kV CHUKHA-BIRPA 220kV CHUKHA-BIRPA	958 14 0 0 14 0 15 16 84 0 0 0 1884 0 0 1886 0 1886 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW)	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-KUDGI 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 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP HEP 4*180MW 400kV TALA-BINAGUR MALBASE - BINAGUR RECEIPT (IYON TALA E RECEIPT (IYON TALA E RECEIPT (IYON TALA E MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BIRARA)	958 14 0 0 14 0 0 116 84 0 0 0 1310 0 1386 0 1386 0 0 1654 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 84MW)	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW)	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR	958 14 0 0 14 0 0 116 84 0 0 0 1310 0 1386 0 1386 0 0 1654 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 84MW)	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW) 345	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 400 C 400 kV 220 kV 220 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 KOLHAPUR-CHIKODI PONDA-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 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BIRAGUR MALBASE - BIRPARA) (from CHUKHA HEP 4*1	958 14 0 0 14 0 0 116 84 0 0 0 1310 0 1386 0 1386 0 0 1654 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 84MW) KATI	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR Max (MW) 499 765	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW) 345 413	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR	958 14 0 0 14 0 0 116 84 0 0 0 1310 0 1386 0 1386 0 0 1654 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 84MW) KATI	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR	22.1 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW) 345	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85
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 132 kV 132 kV 132 kV 400 C 400 kV 220 kV 220 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 KOLHAPUR-CHIKODI PONDA-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 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BIRAGUR MALBASE - BIRPARA) (from CHUKHA HEP 4*1	958 14 0 0 14 0 0 116 84 0 0 0 1310 0 1386 0 1386 0 0 1654 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 84MW) KATI	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR Max (MW) 499 765	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW) 345 413	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41
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 132 kV 132 kV 132 kV 400 C 400 kV 220 kV 220 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 KOLHAPUR-CHIKODI PONDA-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 1 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEF 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BIRAGUR M	958 14 0 0 14 0 0 116 84 0 0 0 1310 0 1386 0 1386 0 0 1654 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 84MW) KATI	0 661 166 30 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 118 WR-SR Max (MW) 499 765	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 2.4 48.8 Min (MW) 345 413	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41
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 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEF 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BIRAGUR M	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 1386 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGECHU 11,2,4 (& 400kV I) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	0 661 166 30 0 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 18 WR-SR Max (MW) 499 765	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10
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 132 kV 132 kV 132 kV 400 C 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER	2 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEF 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BINAGUR MALBASE - BIRAGUR M	958 14 0 0 14 0 0 116 84 0 0 1310 0 1386 0 1654 0 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGECHU I1,2,4 (& 400kV I) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA	0 661 166 30 0 0 0 0 WR-NR 0 4009 1144 2354 0 0 0 18 WR-SR Max (MW) 499 765	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10
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 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	958 14 0 0 14 0 0 116 84 0 0 1310 0 1386 0 1654 0 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGECHU I1,2,4 (& 400kV I) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA	0 661 166 30 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20
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 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-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 ER NER NER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 13886 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGECHU I1,2,4 (& 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	0 661 166 30 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 13886 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGECHU I1,2,4 (& 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	0 661 166 30 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-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	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 1386 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV 1) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 384MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67 -42	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-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 ER NER NER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 1386 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV 1) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 384MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	0 661 166 30 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37
13 14 15 16 17 18 19 20 Import 1 2 3 4 5 6 7	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADBAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 1386 0 1654 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV 1) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 384MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67 -42	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37
13 14 15 16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 17 Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADBRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER NER NER NER ER ER ER ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 1386 0 1654 0 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU I1,2,4 (& 400kV I1,2,4 (& 400kV IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 1118 WR-SR Max (MW) 499 765 334 10 67 -42 0 427	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39 0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37 0.00 9.30 -21.83
13 14 15 16 17 18 19 20 Impor 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 135 kV 140DC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADBAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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	958 14 0 0 0 116 84 0 0 0 116 84 0 0 1386 0 1386 0 1654 0 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU I1,2,4 (& 400kV I1,2,4 (& 400kV IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67 -42	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15 0 388	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37
13 14 15 16 17 18 19 20 Impor 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 135 kV 140DC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI IN Region ER ER NER NER NER ER ER ER ER	2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 116 84 0 0 1386 0 13886 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU I1,2,4 (& 400kV I1,2,4 (& 400kV IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH) HANPUR (B'DESH) D/C	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67 -42 0 427 -941	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 284 -818	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15 0 388 -909	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37 0.00 9.30 -21.83 -31.52
13 14 15 16 17 18 19 20 Impor 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 155 kV 400 kV 220 kV 220 kV 220 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADBRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER NER NER NER ER ER ER ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 116 84 0 0 1386 0 13886 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU I1,2,4 (& 400kV I1,2,4 (& 400kV IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH) HANPUR (B'DESH) D/C	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 1118 WR-SR Max (MW) 499 765 334 10 67 -42 0 427	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 39 0	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15 0 388	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37 0.00 9.30 -21.83
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 155 kV 400 kV 220 kV 220 kV 220 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI IN Region ER ER NER NER NER ER ER ER ER	2 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2	958 14 0 0 0 116 84 0 0 116 84 0 0 1386 0 13886 0 0 1654 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU I1,2,4 (& 400kV I1,2,4 (& 400kV IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 34MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH) HANPUR (B'DESH) D/C	0 661 166 30 0 0 0 0 0 WR-NR 0 4009 11144 2354 0 0 0 118 WR-SR Max (MW) 499 765 334 10 67 -42 0 427 -941	22.1 0.0 0.0 0.0 0.0 1.4 0.8 0.0 0.0 0.0 66.5 7.2 0.0 8.9 0.0 30.3 0.0 0.0 2.4 48.8 Min (MW) 345 413 -11 0 284 -818	0.0 7.4 2.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 283.3 0.0 74.4 2.5 14.4 0.0 0.0 0.0 91.3 Import(Avg (MW) 410 638 59 4 50 15 0 388 -909	22.1 -7.4 -2.7 -0.6 1.4 0.8 0.0 0.0 0.0 -216.8 7.2 -74.4 6.4 -14.4 30.3 0.0 0.0 2.4 -42.6 +ve)/Export(-ve) Energy Exchange (MU) 9.85 15.32 1.41 0.10 1.20 0.37 0.00 9.30 -21.83 -31.52

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 16-Sep-2023

Export From India (in MU)

Export From 1					CITICO A				1
		STOA							
	(ISGS/LTA/MTOA)		COLLECTIVE						
Country	PPA	BILATERAL	IDAM			RTM			TOTAL
		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	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
Bangladesh	21.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.91
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.21

Import by India(in MU)

		STOA							
	(ISGS/LTA/MTOA)		COLLECTIVE						
Country PPA		BILATERAL	IDAM			RTM			TOTAL
1		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	23.67	1.77	0.00	0.00	0.00	0.00	0.00	0.00	25.44
Nepal	0.00	2.63	6.99	0.00	0.00	0.00	0.00	0.00	9.62
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	23.67	4.40	6.99	0.00	0.00	0.00	0.00	0.00	35.06

Net from India(in MU) -ve : Export / +ve : Import

Net II om India	(111 1410)						- 10 .	Export / +ve . II	nport	
			STOA							
	(ISGS/LTA/MTOA)	COLLECTIVE							7	
Country	PPA	BILATERAL	IDAM			RTM			TOTAL	
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	23.67	1.77	0.00	0.00	0.00	0.00	0.00	0.00	25.44	
Nepal	-0.30	2.63	6.99	0.00	0.00	0.00	0.00	0.00	9.32	
Bangladesh	-21.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.91	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Net	1.46	4.40	6.99	0.00	0.00	0.00	0.00	0.00	12.85	