

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: 19th 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 18.09.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-Sep-2023

A. Fower Supply Fosition at An India and Regional						1
	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at	64843	55671	42310	25805	3076	191705
20:00 hrs; from RLDCs)	04043	330/1	42310	25605	3070	191703
Peak Shortage (MW)	0	0	0	350	13	363
Energy Met (MU)	1329	1264	1122	588	64	4366
Hydro Gen (MU)	328	92	51	97	29	598
Wind Gen (MU)	32	150	138	-	-	319
Solar Gen (MU)*	72.71	35.16	116.78	2.60	0.72	228
Energy Shortage (MU)	0.00	0.00	0.00	2.10	0.11	2.21
Maximum Demand Met During the Day (MW)	65961	58592	55169	27544	3097	195709
(From NLDC SCADA)	05901	56592	55168	2/544	3097	195/09
Time Of Maximum Demand Met	19:26	19:09	11:04	00:01	19:23	19:26

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	0.039	0.00	0.08	2.22	2.30	73.89	23.81

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
		day (MW)	Demand (MW)	(MU)	(MU)	(MU)	(MW)	
	Punjab	9594	0	190.5	112.6	-0.7	205	0.00
	Haryana	9366	0	190.9	149.3	-0.5	251	0.00
	Rajasthan	10799	0	239.1	78.1	-3.5	236	0.00
	Delhi	5495	0	114.8	103.9	-1.3	116	0.00
NR	UP	24420	0	460.9	208.3	0.4	1043	0.00
	Uttarakhand	2209	0	45.2	21.3	0.5	113	0.00
	HP	1488	0	30.3	-0.3	-0.5	64	0.00
	J&K(UT) & Ladakh(UT)	2399	0	48.0	23.8	1.0	170	0.00
	Chandigarh	301	0	6.0	6.4	-0.4	35	0.00
	Railways_NR ISTS	176	0	3.4	3.5	-0.1	16	0.00
	Chhattisgarh	4526	0	101.2	48.8	-1.3	357	0.00
	Gujarat	15839	0	339.6	151.2	-0.4	1028	0.00
	MP	10869	0	219.8	91.9	-2.4	334	0.00
WR	Maharashtra	24975	0	530.2	208.1	-3.2	653	0.00
	Goa	625	0	13.0	13.2	-0.7	29	0.00
	DNHDDPDCL	1268	0	28.8	29.0	-0.2	43	0.00
	AMNSIL	820	0	18.5	9.1	0.1	71	0.00
	BALCO	520	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	11309	0	226.9	84.4	0.0	651	0.00
	Telangana	14118	0	276.7	143.6	2.1	721	0.00
\mathbf{SR}	Karnataka	12940	0	226.6	69.5	-3.8	656	0.00
	Kerala	3857	0	76.9	64.2	1.4	253	0.00
	Tamil Nadu	14384	0	306.5	145.9	0.1	1171	0.00
	Puducherry	382	0	8.4	8.0	-0.3	53	0.00
	Bihar	7144	0	152.2	145.2	1.1	391	0.19
	DVC	3491	0	76.0	-26.3	1.8	685	0.00
	Jharkhand	1681	165	36.4	30.9	0.4	225	1.91
ER	Odisha	5919	0	129.1	56.4	-1.1	478	0.00
	West Bengal	9768	0	192.7	75.0	-3.3	61	0.00
	Sikkim	84	0	1.2	1.3	-0.2	12	0.00
	Railways ER ISTS	22	0	0.2	0.2	-0.1	3	0.00
	Arunachal Pradesh	156	0	3.0	3.1	-0.4	35	0.00
	Assam	2127	0	42.8	33.6	1.8	222	0.00
	Manipur	190	0	2.5	2.8	-0.3	27	0.00
NER	Meghalaya	338	8	5.8	1.9	-0.1	31	0.11
	Mizoram	105	0	1.7	1.5	-0.4	5	0.00
	Nagaland	169	0	2.7	2.5	-0.2	18	0.00
	Tripura	290	0	5.1	5.2	0.0	62	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	21.0	5.4	-25.5	-32.2
Day Peak (MW)	1204.5	358.0	-1121.0	-1471.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	265.9	-310.9	136.8	-90.5	-1.2	0.0
Actual(MU)	245.8	-327.3	152.6	-83.4	1.9	-10.4
O/D/U/D(MU)	-20.1	-16.4	15.9	7.1	3.1	-10.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4389	8080	5508	1370	355	19701	36
State Sector	9340	14432	6322	4470	157	34721	64
Total	13729	22512	11830	5840	512	54422	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (WO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	638	1331	593	635	12	3209	68
Lignite	31	11	34	0	0	76	2
Hydro	328	92	51	97	29	598	13
Nuclear	30	54	76	0	0	159	3
Gas, Naptha & Diesel	16	28	6	0	28	78	2
RES (Wind, Solar, Biomass & Others)	110	187	283	4	1	584	12
Total	1153	1703	1043	736	69	4704	100
Share of RES in total generation (%)	9.55	10.96	27.10	0.54	1.04	12.42	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.61	19.53	39.29	13.74	42.77	28.51	

H.	All	India	Demand	Diversity	Factor
D.		D	134	D	.1

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.074
Based on State Max Demands	1.094

I. All India Peak	Demand an	d shortage at Sol	ar and Non-Solar H	Iour
	,		TT)	

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	195357	11:15	165
Non-Solar hr	195709	19:26	275

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: 19-Sep-2023

							Date of Reporting:	19-Sep-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
_	Export of ER (V						27.0	
2	HVDC HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	1001 147	0.0	25.0 3.7	-25.0 -3.7
3	765 kV	GAYA-VARANASI	2	945	4	7.7	0.0	7.7
5	765 kV 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1	323	137 645	0.5	0.0 9.4	0.5 -9.4
6		PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	146 92	0.0	2.8 1.0	-2.8 -1.0
8	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR	2	237	506	0.0	2.9	-1.0 -2.9
9	400 kV	PATNA-BALIA	2	0	410	0.0	5.7	-5.7
10 11	400 kV 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	41 266	421 135	0.0 1.3	5.8 0.0	-5.8 1.3
12	400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 2	136	280	0.0	2.7	-2.7
13 14	400 kV 220 kV	SAHUPURI-KARAMNASA	1	395 42	19 102	3.4 0.0	1.2	3.4 -1.2
15 16	132 kV 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.0	0.0	0.0
17	132 kV 132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0 13.2	0.0 60.1	0.0 -46.9
Import	Export of ER (V	With WR)			EK-IVK	13,2	00.1	-40.9
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1008	562	8.8	0.0	8.8
3	765 kV 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2 2	1520 0	35 301	26.4 0.0	0.0 3.8	26.4 -3.8
4	400 kV	JHARSUGUDA-RAIGARH	4	245	266	0.0	0.3	-0.3
6	400 kV 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	1	390	36 104	5.2	0.0 1.2	5.2 -1.2
7	220 kV	BUDHIPADAR-KORBA	2	115	0	1.9	0.0	1.9
Import	/Export of ER (V	With SR)			ER-WR	42.3	5.3	37.0
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	10.6	-10.6
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1641 2650	0.0	37.5 42.3	-37.5 -42.3
4	400 kV	TALCHER-I/C	2	87	764	0.0	4.9	-4.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0	0.0 90.3	0.0 -90.3
Import	/Export of ER (V	With NER)			EK-SK	0.0	90.5	-90.3
1	400 kV	BINAGURI-BONGAIGAON	2	0	506	0.0	8.5 7.5	-8.5 -7.5
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	0	509 121	0.0	1.9	-7.5 -1.9
					ER-NER	0.0	17.9	-17.9
Import/	/Export of NER HVDC	(With NR) BISWANATH CHARIALI-AGRA	2	1 0	703	0.0	17.0	-17.0
	HVDC	DIGWANATH CHARIALPAGRA			703 NER-NR	0.0	17.0	-17.0
_	Export of WR (_				
2	HVDC HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	0 441	5034	0.0 5.8	62.2 0.0	-62.2 5.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1446	0.0	25.4	-25.4
5	765 kV 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	0 478	2195 1234	0.0	29.4 13.5	-29.4 -12.6
6	765 kV	JABALPUR-ORAI	2	0	914	0.0	23.7	-23.7
8	765 kV 765 kV	GWALIOR-ORAI SATNA-ORAI	1	760	0 829	12.0 0.0	0.0 15.6	12.0 -15.6
9	765 kV	BANASKANTHA-CHITORGARH	2	359	821	0.0	1.5	-1.5
10 11	765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	1	0 177	3465 105	0.0 1.3	60.7 0.3	-60.7 1.0
		ZERDA -BHINMAL	- :					
12	400 kV		1	429	159	3.1	0.0	3.1
12 13 14	400 kV 400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 1 2	944 216	159 0 488	21.8 0.0	0.0 0.0 2.8	3.1 21.8 -2.8
13 14 15	400 kV 400 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	•	944 216 0	0 488 81	21.8 0.0 0.0	0.0 2.8 1.3	21.8 -2.8 -1.3
13 14 15 16 17	400 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	•	944 216 0 0 107	0 488 81 30 0	21.8 0.0	0.0 2.8 1.3 1.6 0.0	21.8 -2.8
13 14 15 16 17 18	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	2 1 1 1 1 1	944 216 0 0 107 76	0 488 81 30 0 5	21.8 0.0 0.0 0.0 1.1 0.6	0.0 2.8 1.3 1.6 0.0	21.8 -2.8 -1.3 -1.6 1.1 0.6
13 14 15 16 17	400 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	2 1 1 1	944 216 0 0 107	0 488 81 30 0 5 0	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0	0.0 2.8 1.3 1.6 0.0 0.0 0.0	21.8 -2.8 -1.3 -1.6 1.1 0.6 0.0 0.0
13 14 15 16 17 18 19 20	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 1 1	944 216 0 0 107 76	0 488 81 30 0 5	21.8 0.0 0.0 0.0 1.1 0.6 0.0	0.0 2.8 1.3 1.6 0.0 0.0	21.8 -2.8 -1.3 -1.6 1.1 0.6 0.0
13 14 15 16 17 18 19 20	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2 1 1 1 1 1	944 216 0 0 107 76	0 488 81 30 0 5 0	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0	0.0 2.8 1.3 1.6 0.0 0.0 0.0	21.8 -2.8 -1.3 -1.6 1.1 0.6 0.0 0.0
13 14 15 16 17 18 19 20 Import/ 1 2	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV /Export of WR (HVDC HVDC	VINDHYACHAL -RIHAND 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 1 2	944 216 0 0 107 76 0 0	0 488 81 30 0 5 0 WR-NR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0	21.8 -2.8 -1.3 -1.6 1.1 0.6 0.0 0.0 -191.5
13	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 765 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA MEHGAON-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	944 216 0 0 107 76 0 0	0 488 81 30 0 5 0 0 WR-NR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5
13 14 15 16 17 18 19 20 Import/ 1 2 3 3 4 5	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV /Export of WR (HVDC HVDC 765 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 1 1 1 1 1 1 2 2	944 216 0 0 107 76 0 0 0	0 488 81 30 0 5 0 WR-NR 1008 5512 1661 3137 0	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2
13 14 15 16 17 18 19 20	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC HVDC bVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 1 1 1 1 1 1 2 2	944 216 0 0 0 107 76 0 0 299 0 1214 0 1471 0 0	0 488 81 30 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0
13 14 15 16 17 18 19 20 Import/	400 kV 400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV /Export of WR (HVDC HVDC 765 kV 765 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 2	944 216 0 0 107 76 0 0 0 299 0 1214 0 1471	0 488 81 30 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 1111	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0	21.8 -2.8 -1.3 -1.6 1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 0.0
13 14 15 16 17 18 19 20	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC HVDC bVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA 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 2 2 1 1	944 216 0 0 107 76 0 0 299 0 1214 0 1471 0 0	0 488 81 30 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 0.0 135.6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANIA MEHGAON-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	944 216 0 0 107 76 0 0 1299 0 1214 0 1471 0 0 0 CHANGES	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 WR-SR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6	21.8 -2.8 -1.3 -1.6 1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 0.0
13 14 15 16 17 18 19 20	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC HVDC bVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA 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 2 2 2 1 1	944 216 0 0 107 76 0 0 299 0 1214 0 1471 0 0	0 488 81 30 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 1111	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 0.0 135.6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve)
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANIA MEHGAON-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 2 2 2 2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIP!	944 216 0 0 107 76 0 0 1214 0 1471 0 0 CHANGES Name	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 WR-SR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 EXTERNATIONAL EXTERNAT	944 216 0 0 107 76 0 0 127 99 0 1214 0 1471 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW)	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU)
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 1 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIPHEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR	944 216 0 0 107 76 0 0 107 76 0 109 1214 0 1471 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU 11,2,4 (& 400kV I) i.e. BINAGURI	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW)	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU)
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIP/ HEP 4*180MW) 400kV TALA-BINAGUR	944 216 0 0 0 107 76 0 0 0 127 76 0 0 1214 0 1471 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EP 6*170MW)	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW)	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC HVDC 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXCLUDE ALIPURDUAR RECEIPT (From TALA BINAGUR MALBASE - BINAGUR MALBASE - BIRPARA) MALBASE - BIRPARA)	944 216 0 0 107 76 0 0 107 76 0 0 1214 0 1214 0 1471 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR	21.8 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW)	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI 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 MALBASE - BINAGUR RECEIPT (from TALA # 220kV CHUKHA-BIRPA 220kV CHUKHA-BIRPA	944 216 0 0 107 76 0 0 107 76 0 0 1214 0 1214 0 1471 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW)	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI IN Region ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXCLUDE ALIPURDUAR RECEIPT (From TALA BINAGUR MALBASE - BINAGUR MALBASE - BIRPARA) MALBASE - BIRPARA)	944 216 0 0 0 107 76 0 0 0 127 76 0 0 1214 0 11214 0 0 1471 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW)	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW)	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 ER ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 0 127 6 0 0 1214 0 1471 0 0 0 1471 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 14	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI 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	944 216 0 0 0 107 76 0 0 0 127 6 0 0 1214 0 1471 0 0 0 1471 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 14	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 ER ER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 0 127 6 0 0 1214 0 1471 0 0 0 1471 0 1471 1471 1 0 1 1472 1 0 1 1474 1 0 1 1474 1 0 1 1474 1 0 1 1474 1 0 1 1474 1 0 1 1474 1 0 1 1474 1 0 1 1474 1 1 1474 1 1 1474 1 1474 1 1474 1 1474 1 1474 1 1474 1 1474 1 1474 1 1474 1 1 1 1	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594 64	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 ER ER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 0 127 6 0 0 1214 0 1471 0 0 0 1471 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 1 1471 14	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV Export of WR (HVDC HVDC HVDC 200 kV 200 kV 200 kV 565 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA 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 ER NER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	944 216 0 0 107 76 0 0 1077 76 0 0 1299 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594 64 19 57	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV HVDC HVDC HVDC 765 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 ER ER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	944 216 0 0 107 76 0 0 1077 76 0 0 1299 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA	0 488 81 30 0 5 0 0 5 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594 64	21.8 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV Export of WR (HVDC HVDC HVDC 200 kV 200 kV 200 kV 565 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-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	944 216 0 0 0 107 76 0 0 107 76 0 0 1299 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGECHU I 1,2,4 & 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC)	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594 64 19 57	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19 5	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32 1.34
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV Export of WR (HVDC HVDC HVDC 200 kV 200 kV 200 kV 565 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA 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 ER NER NER	2 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 107 76 0 0 1299 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGECHU I 1,2,4 & 400kV I) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC)	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594 64 19 57	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV Export of WR (HVDC HVDC HVDC 200 kV 200 kV 200 kV 565 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-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	944 216 0 0 0 107 76 0 0 0 1077 76 0 0 0 1214 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU II,2,4 & 400kV I) i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) M BIHAR) UZAFFARPUR 1&2	0 488 81 30 0 5 0 0 WR-NR 1008 5512 1661 3137 0 0 0 111 WR-SR Max (MW) 509 594 64 19 57	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19 5	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32 1.34
13 14 15 16 17 18 19 20 Import/ 1 2 3 4 5 6 7 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV Export of WR (HVDC HVDC HVDC 200 kV 200 kV 200 kV 565 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI XELDEM-AMBEWADI XELDEM-AMBEWADI XEL BER ER ER NER NER ER ER ER	2 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 0 1077 76 0 0 0 1214 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU II,2,4 & 400kV I) i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) M BIHAR) UZAFFARPUR 1&2	0 488 81 30 0 0 5 5 0 0 0 0 WR-NR 1008 5512 1661 3137 0 0 0 1111 WR-SR Max (MW) 509 594 64 19 57 0 0 0 358	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 -1.91.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32 1.34 0.00 4.01
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 132 kV Export of WR (HVDC HVDC HVDC 200 kV 200 kV 200 kV 565 kV 400 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 ER ER ER NER NER ER ER ER	2 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 0 127 76 0 0 1214 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU II,2,4 & 400kV I) i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) M BIHAR) UZAFFARPUR 1&2	0 488 81 30 0 0 5 5 0 0 0 0 WR-NR 1008 5512 1661 3137 0 0 0 1111 WR-SR Max (MW) 509 594 64 19 57 0 0 0 358	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 46.5 1.9 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW)	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32 1.34 0.00 4.01
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 136 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI 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 1 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIP! HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BIRPARA) (from CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA 132kV MOTANGA-RANG 132kV MOTANGA-RANG NEPAL IMPORT (FROM	944 216 0 0 0 107 76 0 0 0 127 76 0 0 1214 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU II,2,4 & 400kV I) i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) M BIHAR) UZAFFARPUR 1&2	0 488 81 30 0 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19 5 9 0 0 32 -800	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55 0 0 167	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 24.2 0.0 0.0 2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32 1.34 0.00 4.01 -21.91
13 14 15 16 17 18 19 20	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 136 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-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 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 1 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIP! HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR MALBASE - BIRPARA) (from CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA 132kV MOTANGA-RANG 132kV MOTANGA-RANG NEPAL IMPORT (FROM	944 216 0 0 0 107 76 0 0 0 127 76 0 0 1214 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU II,2,4 & 400kV II i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) ### BIHAR UZAFFARPUR 1&2 CC (B'DESH) HANPUR (B'DESH) D/C	0 488 81 30 0 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19 5 9 0 0 32 -800	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55 0 0 167	21.8 -2.8 -1.3 -1.6 -1.1 0.6 0.0 0.0 0.0 -191.5 -8.6 -74.6 0.1 -41.5 -24.2 0.0 0.0 -2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) 5.98 12.10 1.42 0.15 1.32 1.34 0.00 4.01 -21.91
13 14 15 15 16 17 18 19 20 Import 1 2 3 4 5 5 8	400 kV 400 kV 400 kV 220 kV 220 kV 220 kV 132 kV 132 kV 132 kV 135 kV 136 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANIANA MEHGAON-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 XELDEM-AMBEWADI ER ER NER NER NER ER ER LER ER LER L	2 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	944 216 0 0 0 107 76 0 0 0 127 76 0 0 1214 0 1214 0 1471 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU II,2,4 & 400kV II i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA GAR-TANAKPUR(NHPC) ### BIHAR UZAFFARPUR 1&2 CC (B'DESH) HANPUR (B'DESH) D/C	0 488 81 30 0 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 1.1 0.6 0.0 0.0 0.0 46.5 1.9 0.0 9.1 0.0 24.2 0.0 0.0 2.2 37.3 Min (MW) 0 482 -19 5 9 0 0 32 -800	0.0 2.8 1.3 1.6 0.0 0.0 0.0 0.0 0.0 0.0 238.0 10.4 74.6 9.0 41.5 0.0 0.0 0.0 135.6 Import(Avg (MW) 249 504 59 6 55 0 0 167 -913	21.8 -2.8 -1.3 -1.6 -1.1 -0.6 -0.0 -0.0 -0.0 -191.5 -8.6 -74.6 -0.1 -41.5 -24.2 -0.0 -0.0 -2.2 -98.3 +ve)/Export(-ve) Energy Exchange (MU) -5.98 12.10 1.42 -0.15 -1.32 -1.34 -0.00 -2.1.91 -21.91 -32.19

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-Sep-2023

Export From India (in MU)

Export From 1	(11 1/10)	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	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Bangladesh	21.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.73

Import by India(in MU)

			STOA						
	(ISGS/LTA/MTOA)		COLLECTIVE						
Country PPA		BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	21.80	1.57	0.00	0.00	0.00	0.00	0.00	0.00	23.37
Nepal	0.00	2.63	4.66	0.00	0.00	0.00	0.00	0.00	7.29
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	21.80	4.20	4.66	0.00	0.00	0.00	0.00	0.00	30.66

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

Tict II om India	(111 1110)						,,,,	Export / IVC . II	nport
			STOA						
	(ISGS/LTA/MTOA)				COLLE		7		
Country	PPA	BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	21.80	1.57	0.00	0.00	0.00	0.00	0.00	0.00	23.37
Nepal	-0.07	2.63	4.66	0.00	0.00	0.00	0.00	0.00	7.22
Bangladesh	-21.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	0.07	4.20	4.66	0.00	0.00	0.00	0.00	0.00	8.93