

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: 12th 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 11.10.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक ११-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 11th October 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: 12-Oct-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	60305	64674	49324	25839	3150	203292
Peak Shortage (MW)	724	103	1000	1311	236	3374
Energy Met (MU)	1423	1509	1215	570	62	4779
Hydro Gen (MU)	193	92	89	75	35	484
Wind Gen (MU)	8	34	39	-	-	80
Solar Gen (MU)*	131.42	63.16	109.87	3.00	1.04	308
Energy Shortage (MU)	15.19	1.23	4.40	9.44	1.80	32.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66332	69696	60950	26287	3146	220980
Time Of Maximum Demand Met	12:49	15:43	12:21	18:36	17:41	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	0.081	1 24	3 45	13.78	18 47	70.06	11.47				

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU
	Punjab	10542	0	208.6	95.8	-0.1	232	0.00
	Haryana	9155	0	201.8	144.3	-1.3	247	2.76
	Rajasthan	14794	0	304.0	96.1	2.1	654	3.10
	Delhi	5040	0	108.7	84.1	-1.1	100	0.00
NR	UP	21345	0	467.1	192.7	0.5	1298	5.37
	Uttarakhand	2157	0	44.0	29.6	-0.2	168	0.00
	HP	1783	0	32.9	16.9	2.0	248	0.86
	J&K(UT) & Ladakh(UT)	2475	75	47.4	28.5	6.8	659	3.10
	Chandigarh	236	0	4.7	4.5	0.3	59	0.00
	Railways_NR ISTS	163	0	3.4	2.8	0.6	57	0.00
	Chhattisgarh	5232	4	120.0	60.0	1.8	372	1.23
	Gujarat	20620	0	414.2	148.8	-0.4	674	0.00
	MP	13138	0	293.0	166.4	3.7	1194	0.00
WR	Maharashtra	27816	0	610.3	198.8	4.2	1589	0.00
	Goa	721	0	12.7	12.9	-0.5	130	0.00
	DNHDDPDCL	1312	0	30.1	29.9	0.2	41	0.00
	AMNSIL	785	0	16.6	3.3	-0.1	268	0.00
	BALCO	521	0	12.4	12.6	-0.2	6	0.00
	Andhra Pradesh	11795	0	235.1	124.2	0.1	715	0.00
	Telangana	15266	0	272.8	134.9	1.4	719	0.00
SR	Karnataka	14448	0	254.4	97.6	0.1	516	4.40
	Kerala	4086	0	83.6	55.7	1.4	294	0.00
	Tamil Nadu	16587	0	358.4	203.1	2.4	424	0.00
	Puducherry	460	0	10.6	9.5	0.4	75	0.00
	Bihar	6369	600	132.3	123.8	3.2	507	7.60
	DVC	3368	0	74.1	-38.3	2.5	541	0.00
	Jharkhand	1619	305	34.7	25.2	-1.9	166	1.84
ER	Odisha	5606	0	119.7	37.3	-1.6	279	0.00
	West Bengal	9684	0	208.2	91.5	-0.7	167	0.00
	Sikkim	74	0	1.1	1.0	0.1	19	0.00
	Railways_ER ISTS	10	0	0.2	0.1	0.0	4	0.00
	Arunachal Pradesh	157	0	2.8	2.6	-0.1	28	0.00
	Assam	2062	143	40.2	29.7	2.1	266	1.30
	Manipur	198	0	2.9	2.9	0.0	29	0.00
NER	Meghalaya	289	36	5.4	1.3	-0.3	41	0.50
•	Mizoram	121	0	1.9	0.8	-0.2	12	0.00
	Nagaland	167	0	2.7	2.6	-0.1	18	0.00
	Tripura	349	0	5.8	6.0	0.0	58	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	27.3	10.0	-24.5	-12.3
Day Peak (MW)	1371.1	462.0	-1082.0	-530.0

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

E. Import Baport by Regions (in Fig.) - import (+ve)/ Export (+ve)/ OD(+)/ OD(-)											
	NR	WR	SR	ER	NER	TOTAL					
Schedule(MU)	278.3	-344.0	182.5	-109.7	-7.1	0.0					
Actual(MU)	257.9	-333.6	191.4	-108.3	-12.9	-5.4					
O/D/IJ/D(MIJ)	20.3	10.3	8.0	1.4	- 5 Q	-5.4					

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2645	7294	4428	3726	240	18332	44
State Sector	7066	8154	5636	2440	129	23425	56
Total	9711	15448	10064	6166	369	41757	100

G. Sourcewise generation (Gross) (MU)

G. Both cewise generation (G10ss) (WC)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	794	1610	732	664	17	3818	74
Lignite	22	17	34	0	0	73	1
Hydro	193	92	89	75	35	484	9
Nuclear	24	53	70	0	0	147	3
Gas, Naptha & Diesel	65	101	6	0	28	200	4
RES (Wind, Solar, Biomass & Others)	144	98	177	5	1	425	8
Total	1242	1972	1107	744	82	5147	100
Share of RES in total generation (%)	11.59	4.97	16.00	0.66	1.27	8.26	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.08	12.33	30.28	10.75	44.51	20.52	

H.	All	India	Dema	ınd I	Diversity	Factor	
T	-	_	•		1	,	7

11. All findia Demand Diversity Factor	
Based on Regional Max Demands	1.024
Based on State Max Demands	1.043

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220980	10:50	416
Non-Solar hr	205423	18:47	4050

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

^{**}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: 12-Oct-2023

Sl No							Date of Reporting:	12-Oct-2023
1	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
T				•	•	•		, , ,
	t/Export of ER (V			1 0	500	0.0	12.2	12.2
2	HVDC HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	502 97	0.0	12.3 1.9	-12.3 -1.9
3		GAYA-VARANASI	2	211	253	0.0	1.3	-1.9 -1.3
4	765 kV	SASARAM-FATEHPUR	1	0	258	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	482	0.0	8.8	-8.8
6		PUSAULI-VARANASI	1	11	74	0.0	0.9	-0.9
7		PUSAULI -ALLAHABAD	1	5	66	0.0	0.9	-0.9
8		MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	587 333	0.0	8.7 6.3	-8.7 -6.3
10		NAUBATPUR-BALIA	2	0	335	0.0	5.7	-6.5 -5.7
11		BIHARSHARIFF-BALIA	2	100	178	0.0	1.2	-1.2
12		MOTIHARI-GORAKHPUR	2	0	313	0.0	5.4	-5.4
13		BIHARSHARIFF-VARANASI	2	89	141	0.0	1.0	-1.0
14		SAHUPURI-KARAMNASA	1	0	88	0.0	1.1	-1.1
15		NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16 17		GARWAH-RIHAND KARMANASA-SAHUPURI	1	30	0 35	0.5	0.0	0.5 0.0
18		KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
			•	•	ER-NR	0.5	59.3	-58.8
Impor	t/Export of ER (V	With WR)				- OIL	0.7.10	2010
1		JHARSUGUDA-DHARAMJAIGARH	4	726	467	5.1	0.0	5.1
2		NEW RANCHI-DHARAMJAIGARH	2	1038	0	15.4	0.0	15.4
3	765 kV	JHARSUGUDA-DURG	2	0	290	0.0	4.3	-4.3
4		JHARSUGUDA-RAIGARH	4	0	340	0.0	3.9	-3.9
5		RANCHI-SIPAT	2	230	0	3.3	0.0	3.3
7		BUDHIPADAR-RAIGARH	1 2	0	181	0.0	3.3	-3.3
-/	220 kV	BUDHIPADAR-KORBA		110	13 ER-WR	1.0	11.4	1.0
T	t/Export of ER (V	Vid. CD)			EK-WK	24.8	11,4	13.4
_			1 1	Ι ο	500	0.0	12.7	10.7
2	HVDC HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	560 1998	0.0	12.7 48.0	-12.7 -48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2339	0.0	45.4	-45.4
4	400 kV	TALCHER-I/C	2	0	189	0.0	3.2	-3.2
5		BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	106.1	-106.1
Impor	t/Export of ER (V	With NER)						
1	400 kV	BINAGURI-BONGAIGAON	2	124	303	0.5	2.4	-1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	259	329	0.2	0.0	0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	35	80	0.0	0.3	-0.3
					ER-NER	0.7	2.7	-2.0
Impor	t/Export of NER							
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Impor	t/Export of WR (With NR)						
1		CHAMPA-KURUKSHETRA	2	0	2498	0.0	58.8	-58.8
2		VINDHYACHAL B/B		226	0	6.1	0.0	6.1
3		MUNDRA-MOHINDERGARH	2	0	1909	0.0	45.2	-45.2
5		GWALIOR-AGRA	2 2	0 196	1496 1091	0.0	23.7 15.2	-23.7
6		GWALIOR-PHAGI JABALPUR-ORAI	2	0	800	0.2	27.9	-15.0 -27.9
7		GWALIOR-ORAI	1	767	0	12.1	0.0	12.1
8		SATNA-ORAI	î	0	943	0.0	18.3	-18.3
9		BANASKANTHA-CHITORGARH	2	928	314	5.4	0.0	5.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2272	0.0	45.1	-45.1
11		ZERDA-KANKROLI	1	134	62	0.9	0.2	0.7
12	400 kV	ZERDA -BHINMAL	1	369	256	0.0	0.4	-0.4
13 14	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	967 194	0 327	22.4 0.0	2.5	22.4 -2.5
		BHANPURA-RANPUR				0.0		
1 15	220 kV		1	0		0.0	1.1	-1.1
15 16		BHANPURA-MORAK	1 1	0	73 30	0.0	1.1 2.4	-1.1 -2.4
	220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1 1 1		73		2.4	
16 17 18	220 kV 220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1	0 166 129	73 30 0	0.0 2.8 2.0	2.4 0.0 0.0	-2.4 2.8 2.0
16 17 18 19	220 kV 220 kV 220 kV 132 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1 1 1	0 166 129 0	73 30 0 0	0.0 2.8 2.0 0.0	2.4 0.0 0.0 0.0	-2.4 2.8 2.0 0.0
16 17 18	220 kV 220 kV 220 kV 132 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1	0 166 129	73 30 0 0 0	0.0 2.8 2.0 0.0 0.0	2.4 0.0 0.0 0.0 0.0	-2.4 2.8 2.0 0.0
16 17 18 19 20	220 kV 220 kV 220 kV 132 kV 132 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1	0 166 129 0	73 30 0 0	0.0 2.8 2.0 0.0	2.4 0.0 0.0 0.0	-2.4 2.8 2.0 0.0
16 17 18 19 20	220 kV 220 kV 220 kV 132 kV 132 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR)	1 1 1 1 2	0 166 129 0	73 30 0 0 0 0 0 WR-NR	0.0 2.8 2.0 0.0 0.0 51.9	2.4 0.0 0.0 0.0 0.0 240.8	-2.4 2.8 2.0 0.0 0.0 -188.9
16 17 18 19 20 Impor	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 1 2	0 166 129 0	73 30 0 0 0 0 WR-NR	0.0 2.8 2.0 0.0 0.0 51.9	2.4 0.0 0.0 0.0 0.0 240.8	-2.4 2.8 2.0 0.0 0.0 -188.9
16 17 18 19 20 Impor 1 2	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR	1 1 1 2 2	0 166 129 0 0	73 30 0 0 0 0 WR-NR	0.0 2.8 2.0 0.0 0.0 51.9	2.4 0.0 0.0 0.0 0.0 240.8	-2.4 2.8 2.0 0.0 0.0 -188.9
16 17 18 19 20 Impor	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 1 2	0 166 129 0	73 30 0 0 0 0 WR-NR	0.0 2.8 2.0 0.0 0.0 51.9	2.4 0.0 0.0 0.0 0.0 240.8	-2.4 2.8 2.0 0.0 0.0 -188.9
16 17 18 19 20 Impor 1 2 3	220 kV 220 kV 220 kV 132 kV 132 kV T/Export of WR (HVDC HVDC 765 kV 400 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	1 1 1 2 2	0 166 129 0 0 0	73 30 0 0 0 0 WR-NR 1007 5011 1363	0.0 2.8 2.0 0.0 0.0 51.9	2.4 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 2	0 166 129 0 0 0 0 560 0 1541	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1	2.4 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0
16 17 18 19 20 Impor 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2	0 166 129 0 0 0 560 0 1541 0	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0	2.4 0.0 0.0 0.0 0.0 2.40.8 13.4 93.4 11.4 39.5 0.0 0.0	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 2	0 166 129 0 0 0 0 560 0 1541	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3
16 17 18 19 20 Impor 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 2	0 166 129 0 0 0 560 0 1541 0	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0	2.4 0.0 0.0 0.0 0.0 2.40.8 13.4 93.4 11.4 39.5 0.0 0.0	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0
16 17 18 19 20 Impor 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 2	0 166 129 0 0 0 0 560 0 1541 0	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0	2.4 0.0 0.0 0.0 0.0 2.40.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 2 1 1	0 166 129 0 0 0 560 0 1541 0 0	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3.1 2.6.1	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1	0 166 129 0 0 0 0 560 0 1541 0 0	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0	2.4 0.0 0.0 0.0 0.0 2.40.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve)
16 17 18 19 20 Impor 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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	1	0 166 129 0 0 0 560 0 1541 0 0 0 CHANGES	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 24.3 26.1	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW)	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU)
16 17 18 19 20 Impor 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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	1	0 166 129 0 0 0 560 0 1541 0 0 0 CHANGES	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3.1 2.6.1	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPT HEP 4*180MW)	0 166 129 0 0 0 0 560 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 24.3 26.1	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW)	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU)
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUIGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	0 166 129 0 0 0 0 560 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 2.3 26.1 Min (MW)	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW)	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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	1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPT HEP 4*180MW)	0 166 129 0 0 0 0 560 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 24.3 26.1	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW)	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU)
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUIGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	0 166 129 0 0 0 0 560 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU [1,2,4 & 400kV] 1,i.e. BINAGURI EP 6*170MW)	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 2.3 26.1 Min (MW)	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW)	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUIGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	1	0 166 129 0 0 0 0 0 1541 0 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	73 30 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 WR-SR WR-SR	0.0 2.8 2.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 2.3 26.1 Min (MW)	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW)	-2.4 2.8 2.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER	1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPT HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	0 166 129 0 0 0 0 0 1541 0 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 2.3 26.1 Min (MW)	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346	-2.4 2.8 2.0 0.0 0.0 -1.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU [1,2,4 (& 400kV)] i.e. BINAGURI [EP 6*170MW) RA 1&2 (& 220kV) i.e. BIRPARA RECEIPT [44MW]	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693	-2.4 2.8 2.0 0.0 0.0 -1.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU [1,2,4 (& 400kV)] i.e. BINAGURI [EP 6*170MW) RA 1&2 (& 220kV) i.e. BIRPARA RECEIPT [44MW]	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 2.3 26.1 Min (MW)	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346	-2.4 2.8 2.0 0.0 0.0 -1.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU [1,2,4 (& 400kV)] i.e. BINAGURI [EP 6*170MW) RA 1&2 (& 220kV) i.e. BIRPARA RECEIPT [44MW]	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693	-2.4 2.8 2.0 0.0 0.0 -1.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI 1EP 6*170MW) RA 1&2 (& 220kV 1.e. BIRPARA RECEIPT 44MW) KATI	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI 1EP 6*170MW) RA 1&2 (& 220kV 1.e. BIRPARA RECEIPT 44MW) KATI	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI 1EP 6*170MW) RA 1&2 (& 220kV 1.e. BIRPARA RECEIPT 44MW) KATI	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER ER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1,2,4 (& 400kV 1,4,4 (& 400kV 1,4 (& 400kV 1,4,4 (& 400k	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER ER NER	1	0 166 129 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1,2,4 (& 400kV 1,4,4 (& 400kV 1,4 (& 400kV 1,4,4 (& 400k	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER	TERNATIONAL EXC 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BIRPARA) i (from CHUKHA-BIRPA MALBASE - BIRPARA) i (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG	0 166 129 0 0 0 0 0 0 0 0 1541 0 0 0 0 1541 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU (1,2,4 & 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV 1.e. BIRPARA RECEIPT 184MW) KATI GIA GAR-TANAKPUR(NHPC)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	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 ER ER ER NER	1	0 166 129 0 0 0 0 0 0 0 0 1541 0 0 0 0 1541 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU (1,2,4 & 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV 1.e. BIRPARA RECEIPT 184MW) KATI GIA GAR-TANAKPUR(NHPC)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650	2.4 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER	TERNATIONAL EXC 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BIRPARA) i (from CHUKHA-BIRPA MALBASE - BIRPARA) i (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG	0 166 129 0 0 0 0 0 0 0 0 1541 0 0 0 0 1541 0 0 0 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU (1,2,4 & 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV 1.e. BIRPARA RECEIPT 184MW) KATI GIA GAR-TANAKPUR(NHPC)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER NER	- 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	0 166 129 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER	TERNATIONAL EXC 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BIRPARA) i (from CHUKHA-BIRPA MALBASE - BIRPARA) i (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG	0 166 129 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER NER	- 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	0 166 129 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. f (from MANGDECHU 11,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER NER NER ER	- 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	0 166 129 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I 1,2,4 (& 400kV) 1 i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00
16 17 18 19 20 Impor 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 ER ER NER NER NER		0 166 129 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I 1,2,4 (& 400kV) 1 i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 23.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38
16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State BHUTAN	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 ER ER ER NER NER NER ER ER		0 166 129 0 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV) 1,e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV) i.e. BIRPARA RECEIPT 44MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0	0.0 2.8 2.0 0.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38 0	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57 0 476	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00 11.42 -21.09
16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State	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 XELDEM-AMBEWADI ER ER ER NER NER ER ER ER ER		0 166 129 0 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV) 1,e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV) i.e. BIRPARA RECEIPT 44MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0	0.0 2.8 2.0 0.0 0.0 0.0 51.9 0.0 0.0 0.8 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00
16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State BHUTAN	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 ER ER ER NER NER NER ER ER		0 166 129 0 0 0 0 0 0 0 0 1541 0 0 1541 0 0 0 1541 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV) 1,e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV) i.e. BIRPARA RECEIPT 44MW) KATI GIA GAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0 534 -930	0.0 2.8 2.0 0.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38 0	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57 0 476	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00 11.42 -21.09
16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State BHUTAN	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 ER ER ER NER NER ER ER ER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BIRPARA) i (from CHUKHA-BIRPA MALBASE - BIRPARA) i 132kV GELEPHU-SALAI 132kV GELEPHU-SALAI 132kV MOTANGA-RANG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU BHERAMARA B/B HVD	0 166 129 0 0 0 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV) 1 i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA SAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0 534 -930	0.0 2.8 2.0 0.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38 0 0 13 -753	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57 0 476 -879	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00 11.42 -21.09 -12.30
16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State BHUTAN	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 XELDEM-AMBEWADI ER ER ER NER NER ER ER ER ER		0 166 129 0 0 0 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV) 1 i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA SAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0 534 -930	0.0 2.8 2.0 0.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38 0	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 93.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57 0 476	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00 11.42 -21.09
16 17 18 19 20 Impor 1 2 3 4 5 6 7 8	220 kV 220 kV 132 kV 132 kV 132 kV 132 kV 14/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State BHUTAN	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 ER ER ER NER NER ER ER ER ER	TERNATIONAL EXC 2 2 2 2 2 2 2 1 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BIRPARA) i (from CHUKHA-BIRPA MALBASE - BIRPARA) i 132kV GELEPHU-SALAI 132kV GELEPHU-SALAI 132kV MOTANGA-RANG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU BHERAMARA B/B HVD	0 166 129 0 0 0 0 0 0 0 0 560 0 1541 0 0 0 1541 0 0 0 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I1,2,4 (& 400kV) 1 i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 44MW) KATI GIA SAR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	73 30 0 0 0 0 0 WR-NR 1007 5011 1363 2259 0 0 0 119 WR-SR Max (MW) 487 735 55 19 62 -72 0 534 -930	0.0 2.8 2.0 0.0 0.0 0.0 0.0 51.9 0.0 0.8 0.0 0.0 2.3.1 0.0 0.0 2.3 26.1 Min (MW) 269 650 7 6 38 0 0 13 -753	2.4 0.0 0.0 0.0 0.0 0.0 0.0 240.8 13.4 11.4 39.5 0.0 0.0 0.0 157.7 Import(Avg (MW) 346 693 38 11 49 -57 0 476 -879	-2.4 2.8 2.0 0.0 0.0 0.0 -188.9 -13.4 -93.4 -10.6 -39.5 23.1 0.0 0.0 2.3 -131.6 +ve)/Export(-ve) Energy Exchange (MU) 8.29 16.64 0.91 0.27 1.18 -1.38 0.00 11.42 -21.09 -12.30

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 12-Oct-2023

Export From India (in MU)

Export From II	luiu (m 1/10)				TONA						
			T-GNA								
	GNA	COLLECTIVE									
Country	(ISGS/PPA)	BILATERAL		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	21.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.08		
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total Export	21.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.08		

Import by India(in MU)

Total Net

8.07

0.00

13.03

import by muit	1	I							
		T-GNA							
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	26.52	0.00	1.48	0.00	0.00	0.00	0.00	0.00	28.00
Nepal	2.63	0.00	11.55	0.00	0.00	0.00	0.00	0.00	14.18
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	29.15	0.00	13.03	0.00	0.00	0.00	0.00	0.00	42.18

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 26.52 0.00 1.48 0.000.00 0.000.00 Bhutan 0.0028.00 2.63 0.00 11.55 0.00 0.00 0.000.00 0.0014.18 Nepal -21.08 0.00Bangladesh 0.000.000.000.000.000.00-21.08 0.00 0.000.00 0.000.00 0.000.00 0.000.00Myanmar

0.00

0.00

0.00

0.00

0.00

21.10