

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: 23rd January 2024

To,

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

Sub: Daily PSP Report for the date 22.01.2024.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-जनवरी-2024 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 22nd January 2024, 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: 23-Jan-2024

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	60980	57481	46726	20761	2732	188680
Peak Shortage (MW)	450	0	0	1189	0	1639
Energy Met (MU)	1312	1431	1178	445	48	4414
Hydro Gen (MU)	98	49	62	24	10	241
Wind Gen (MU)	6	43	44	-	-	93
Solar Gen (MU)*	106.42	65.11	116.41	4.26	1.04	293
Energy Shortage (MU)	10.42	1.88	0.00	9.27	0.57	22.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69524	71819	59522	21589	2755	221330
Time Of Maximum Demand Met	12:37	10:38	10:23	10:43	17:43	10:55

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	0.052	0.50	1.05	5.87	7.42	72.06	20.52

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	9019	0	165.3	59.4	-0.4	215	0.00
	Haryana	9036	231	159.3	98.8	0.3	167	6.29
	Rajasthan	17202	0	321.9	113.0	-2.8	311	0.00
	Delhi	5746	0	90.6	78.4	0.3	556	0.00
NR	UP	21871	0	417.3	136.3	3.3	1065	0.00
	Uttarakhand	2406	0	46.2	34.2	0.2	297	1.59
	HP	2146	0	37.2	30.3	1.8	471	0.25
	J&K(UT) & Ladakh(UT)	3067	0	65.9	60.6	0.9	351	2.29
	Chandigarh	338	0	5.6	4.8	0.8	134	0.00
	Railways_NR ISTS	169	0	3.1	3.0	0.1	61	0.00
	Chhattisgarh	4944	0	101.2	49.1	-1.2	215	0.00
	Gujarat	18546	0	372.3	126.5	-2.3	596	0.00
	MP	17569	0	323.8	190.3	0.8	1095	1.88
WR	Maharashtra	28151	0	562.4	161.9	-2.5	591	0.00
	Goa	633	0	12.1	11.9	-0.2	137	0.00
	DNHDDPDCL	1167	0	27.3	27.3	0.0	40	0.00
	AMNSIL	876	0	19.5	8.9	0.4	259	0.00
	BALCO	518	0	12.4	12.4	0.0	9	0.00
	Andhra Pradesh	12132	0	219.2	89.2	0.4	625	0.00
	Telangana	13810	0	255.6	129.0	0.7	809	0.00
SR	Karnataka	15661	0	280.5	128.6	0.6	766	0.00
	Kerala	4354	0	86.4	64.9	1.3	345	0.00
	Tamil Nadu	16101	0	327.3	181.0	0.5	1060	0.00
	Puducherry	402	0	8.4	8.1	-0.2	27	0.00
	Bihar	5252	988	100.6	87.5	1.7	423	6.95
	DVC	3423	0	69.8	-48.9	-2.0	340	0.00
	Jharkhand	1815	252	31.4	23.3	-1.5	302	2.33
ER	Odisha	4670	0	91.2	11.3	-0.4	509	0.00
	West Bengal	7249	0	149.7	18.6	-1.8	144	0.00
	Sikkim	119	0	1.9	2.0	-0.1	16	0.00
	Railways_ER ISTS	6	0	0.1	0.1	0.0	2	0.00
	Arunachal Pradesh	174	0	3.2	2.8	0.3	67	0.00
	Assam	1577	0	27.2	21.5	0.6	160	0.52
	Manipur	230	0	3.1	2.8	0.3	71	0.05
NER	Meghalaya	338	0	6.4	4.6	-0.1	85	0.00
	Mizoram	158	0	2.3	1.6	-0.2	13	0.00
	Nagaland	147	0	2.2	2.1	0.0	30	0.00
	Tripura	233	0	4.0	3.4	-0.1	22	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.5	-9.5	-18.4	-29.4
Day Peak (MW)	-603.2	-618.9	-913.0	-1438.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.2	-291.4	150.8	-161.5	6.9	0.0
Actual(MU)	296.0	-308.5	163.9	-166.0	7.5	-7.1
O/D/U/D(MU)	0.8	-17.1	13.1	-4.4	0.6	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8422	9452	4378	5272	651	28175	51
State Sector	6501	9746	8475	2256	281	27259	49
Total	14923	19198	12853	7528	932	55434	100

C. Sourcewise generation (Cross) (MII)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	795	1605	697	666	11	3773	79
Lignite	33	16	57	0	0	106	2
Hydro	98	49	62	24	10	241	5
Nuclear	26	40	74	0	0	140	3
Gas, Naptha & Diesel	16	43	6	0	25	90	2
RES (Wind, Solar, Biomass & Others)	136	112	194	6	1	450	9
Total	1104	1865	1089	696	47	4800	100
							1
Share of RES in total generation (%)	12.35	6.03	17.81	0.87	2.22	9.37	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.57	10.80	30.23	4.32	22.75	17.32	

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

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.017
Based on State Max Demands	1.044

I. All India Peak	Demand	and	shortage	at Solar	and l	Non-Solar Hour
	3.7	1	- 117	1/3 / ***		

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	221330	10:55	3573
Non-Solar hr	194122	18:00	1747

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

^{**}Note: All generation MU figures are gross
***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs 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: 23-Jan-2024

Import/Exp 1 2 3 4 5 6 7 8 9 10 11 12 13 14	port of ER ('HVDC HVDC 765 kV		N. 0.01 11	More Immont (MW)				NUMBER OF STATE
1 2 3 4 5 6 7 8 9 10 11 12 13 14	HVDC HVDC		No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1 2 3 4 5 6 7 8 9 10 11 12 13 14	HVDC HVDC							
3 4 5 6 7 8 9 10 11 12 13 14		ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
4 5 6 7 8 9 10 11 12 13	765 kV	PUSAULI B/B		0	49	0.0	1.9	-1.9
5 6 7 8 9 10 11 12 13	765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	0	927 545	0.0	16.3 9.9	-16.3 -9.9
6 7 8 9 10 11 12 13	765 kV	GAYA-BALIA	1	0	880	0.0	16.6	-16.6
8 9 10 11 12 13 14	400 kV	PUSAULI-VARANASI	1	17	33	0.2	0.0	0.2
9 10 11 12 13 14	400 kV	PUSAULI -ALLAHABAD	1 2	0	66	0.0	1.0 12.0	-1.0
10 11 12 13 14	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2	0	836 602	0.0	12.0	-12.0 -12.0
12 13 14	400 kV	NAUBATPUR-BALIA	2	0	640	0.0	12.6	-12.6
13 14	400 kV	BIHARSHARIFF-BALIA	2	0	424	0.0	7.4	-7.4
14	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 2	0	588 422	0.0	10.2 8.0	-10.2 -8.0
	220 kV	SAHUPURI-KARAMNASA	1	0	132	0.0	2.2	-2.2
	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
	132 kV 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.7	110.0	-109.3
Import/Exp	port of ER (With WR)			•			
	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	812	0.0	11.7	-11.7
	765 kV 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2 2	875 0	623 783	0.0	1.1 14.6	-1.1 -14.6
	400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	4	0	666	0.0	11.4	-11.4
5	400 kV	RANCHI-SIPAT	2	164	250	0.0	3.2	-3.2
	220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1	7	157	0.0	1.6 1.5	-1.6
7	220 kV	BUDHIPADAR-KURBA	2	29	180 ER-WR	0.0	45.1	-1.5 -45.1
Import/Exr	port of ER (With SR)			ER-WK	0.0	43.1	-43.1
	HVDC	JEYPORE-GAZUWAKA B/B	2	0	660	0.0	14.4	-14.4
	HVDC	TALCHER-KOLAR BIPOLE	2	0	3	0.0	0.0	0.0
	765 kV	ANGUL-SRIKAKULAM	2	0 1923	2830	0.0	52.0 0.0	-52.0
	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	2	0	0	44.6 0.0	0.0	44.6 0.0
					ER-SR	0.0	66.4	-66.4
Import/Exr	port of ER (With NER)				5.0		
1	400 kV	BINAGURI-BONGAIGAON	2	145	86	0.9	0.0	0.9
	400 kV	ALIPURDUAR-BONGAIGAON	2	545	27	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	82	3 ER-NER	1.0	0.0	1.0
Import/E	port of NER	(With ND)			EK-NER	7.9	0.0	7.9
	HVDC	BISWANATH CHARIALI-AGRA	2	660	0	16.0	0.0	16.0
<u> </u>	11,100	DECTABLE CHARACTAGRA	<u> </u>	000	NER-NR	16.0	0.0	16.0
Import/Exr	port of WR	(With NR)				1010	0.0	10.0
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4012	0.0	58.5	-58.5
	HVDC	VINDHYACHAL B/B		428	0	6.2	0.0	6.2
	HVDC 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1122 3049	0.0	20.1 45.2	-20.1 -45.2
	765 kV	GWALIOR-PHAGI	2	0	1355	0.0	20.1	-45.2
6	765 kV	JABALPUR-ORAI	2	0	1281	0.0	35.7	-35.7
	765 kV	GWALIOR-ORAI	1	955	0	14.9	0.0	14.9
	765 kV 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	2	0 699	1163 1154	0.0 4.7	21.9 3.5	-21.9 1.2
	765 kV	VINDHYACHAL-VARANASI	2	0	3387	0.0	46.3	-46.3
11	400 kV	ZERDA-KANKROLI	1	122	200	0.7	0.9	-0.3
	400 kV 400 kV	ZERDA -BHINMAL	1	292 981	428	1.4 22.1	2.3	-0.9
	400 KV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	2	981	0 616	0.0	5.5	22.1 -5.5
	220 kV	BHANPURA-RANPUR	1	142	96	0.9	0.3	0.6
	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
	220 kV 220 kV	MEHGAON-AURAIYA MALANPUR-AURAIYA	1	71 35	15 40	0.9	0.0 0.1	0.9
	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.4	0.0	0.0
	132 kV	RAJGHAT-LALITPUR	2	0				
20					0	0.0	0.0	0.0
					0 WR-NR	0.0 52.1	0.0	
Import/Exp	port of WR				WR-NR	52.1	0.0 260.9	0.0 -208.8
Import/Exp	HVDC	BHADRAWATI B/B	-	0	WR-NR 306	52.1	0.0 260.9	0.0 -208.8 -7.2
Import/Exp	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	0	WR-NR 306 2503	52.1 0.0 0.0	0.0 260.9 7.2 43.9	-7.2 -43.9
Import/Exp	HVDC	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD			WR-NR 306	52.1	0.0 260.9	0.0 -208.8 -7.2
Import/Exp 1 2 3 4 5	HVDC HVDC 765 kV 765 kV 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW)	2 2 2 2 2	0 442 0 0	306 2503 2155 2664 2551	52.1 0.0 0.0 0.5 0.0 0.0	7.2 43.9 23.8 43.6 41.6	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6
Import/Exp 1 2 3 4 5 6	HVDC HVDC 765 kV 765 kV 765 kV 400 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI	2 2 2 2 2 2	0 442 0 0 1303	306 2503 2155 2664 2551 0	52.1 0.0 0.0 0.5 0.0 0.0 14.9	7.2 43.9 23.8 43.6 41.6 0.0	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9
Import/Exp 1 2 3 4 5 6 7	HVDC HVDC 765 kV 765 kV 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW)	2 2 2 2 2	0 442 0 0	306 2503 2155 2664 2551	52.1 0.0 0.0 0.5 0.0 0.0	7.2 43.9 23.8 43.6 41.6	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2 2 2	0 442 0 0 1303	306 2503 2155 2664 2551 0 0 1	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2	7.2 43.9 23.8 43.6 41.6 0.0 0.0	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 2	0 442 0 0 1303	306 2503 2155 2664 2551 0 0	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0	7.2 43.9 23.8 43.6 41.6 0.0 0.0	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 2 2 1 1	0 442 0 0 1303 0 0	306 2503 2155 2664 2551 0 0 1	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5
Import/Exp 1 2 3 4 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KAOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 2 1 1 1	0 442 0 0 0 1303 0 0 1 1	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange
Import/Exp 1 2 3 4 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 2 1 1 1 TERNATIONAL EXC	0 442 0 0 1303 0 0 0 1 1	306 2503 2155 2664 2551 0 0 1	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve)
Import/Exp 1 2 3 4 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI INTERPRETATION INTERPRE	2 2 2 2 2 2 1 1 1 TERNATIONAL EXC Line	0 442 0 0 1303 0 0 1 1 CHANGES Name	WR-NR 306 2503 2155 2664 2551 0 0 1 99 WR-SR	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU)
Import/Exp 1 2 3 4 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KAOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIPT HEP 4*180MW)	0 442 0 0 1303 0 1303 0 1 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW)	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange
Import/Exp 1 2 3 4 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI INT Region ER	2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI	0 442 0 0 1303 0 0 1303 1 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW)	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW)	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74
Import/Exp 1 2 3 4 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI INTERPRETATION INTERPRE	2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPHEP 4*180MW) MAUDAL HALABINAGURI MALBASE - BINAGURI	0 442 0 0 1303 0 1303 1 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU 11,2,4 (& 400kV I) i.e. BINAGURI	WR-NR 306 2503 2155 2664 2551 0 0 1 99 WR-SR	52.1 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW)	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU)
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI INT Region ER	2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW) 400kV TALA-BINAGURI	0 442 0 0 0 1303 0 0 1303 1 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. (from MANGDECHU I 1,2,4 (& 400kV I) i.e. BINAGURI IEP 6°170MW)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW)	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW)	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI INT Region ER	2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGUR RECEIPT (from TALA H	0 442 0 0 1303 0 1303 0 0 1 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGECHU I 1,2,4 (& 400kV 1) i.e. BINAGURI EEP 6*170MW) RA 1&2 (& 220kV	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW)	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW)	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER	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	0 442 0 0 1303 0 1303 0 1 1 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	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW)	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER ER	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 MALBASE - BIRAGURI (from TALA H 220kV CHUKHA-BIRPA MALBASE - BIRPARA)	0 442 0 0 1303 0 1303 0 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU I 1,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER	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 - BINAGUR RECEIPT (from TALA H RECEIPT (from TALA H MALBASE - BIRPARA)	0 442 0 0 1303 0 1303 0 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU I 1,2,4 (& 400kV 1) i.e. BINAGURI EP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW)	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER ER ER	2 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 MALBASE - BIRAGAI (from CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA)	0 442 0 0 1303 0 1303 0 0 1 1 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 84MW) KATI	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER ER	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 MALBASE - BIRAGURI (from TALA H 220kV CHUKHA-BIRPA MALBASE - BIRPARA)	0 442 0 0 1303 0 1303 0 0 1 1 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 84MW) KATI	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER ER ER	2 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 MALBASE - BIRAGAI (from CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA)	0 442 0 0 1303 0 1303 0 0 1 1 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 84MW) KATI	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN' Region ER ER ER	2 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 MALBASE - BIRAGAI (from CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA)	0 442 0 0 1303 0 1303 0 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU 11,2,4 & 400kV 1) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER	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 - BIRAGNA MALBASE - BIRPARA) (from CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA)	0 442 0 0 1303 0 1303 0 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU 11,2,4 & 400kV 1) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER	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 - BINAGUR MALBAS	0 442 0 0 1303 0 1303 0 1 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 & 400kV I 1,2,4	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER	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 - BINAGUR MALBAS	0 442 0 0 1303 0 1303 0 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU 11,2,4 & 400kV 1) i.e. BINAGURI IEP 6*170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER	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 - BINAGUR MALBAS	0 442 0 0 1303 0 1303 0 1 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. F (from MANGDECHU I 1,2,4 & 400kV I 1,2,4	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER	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 - BINAGUR MALBAS	0 442 0 0 0 1303 0 0 1303 0 1 0 1 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 4 UP) GAR-TANAKPUR(NHPC)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER	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 MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 1 0 1 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 4 UP) GAR-TANAKPUR(NHPC)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER NER NER NER NER	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 MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 1303 0 1303 0 1 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU I 1,2,4 & 400kV I 1,2,4 &	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51
Import/Exp 1 2 3 4 5 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER	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 MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 1303 0 1303 0 1 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. (From MANGDECHU I 1,2,4 & 400kV I 1,2,4 &	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15
Import/Exp 1 2 3 4 5 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER NER NER ER E	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 132kV CHUKHA HEP 4*8 132kV GELEPHU-SALA: 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 1 0 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (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 M UP) GAR-TANAKPUR(NHPC) M BIHAR)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74 -153	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0 0 -3 -3 -55	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63 -17	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51 -0.40 -8.31
Import/Exp 1 2 3 4 5 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER NER NER NER NER NER	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 MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRARA) (from CHUKHA HEP 4*8 132kV GELEPHU-SALA) 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 1 0 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (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 M UP) GAR-TANAKPUR(NHPC) M BIHAR)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51
Import/Exp 1 2 3 4 5 5 6 7 8 9	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER NER ER ER ER	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 132kV CHUKHA HEP 4*8 132kV GELEPHU-SALA: 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 1 0 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (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 M UP) GAR-TANAKPUR(NHPC) M BIHAR)	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74 -153	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0 0 -3 -3 -55	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63 -17	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51 -0.40
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN' Region ER ER NER NER NER NER ER ER ER	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 132kV CHUKHA HEP 4*8 132kV GELEPHU-SALA: 132kV MOTANGA-RANG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 1 0 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU II,2,4 & 400kU II,2,4 &	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74 -153	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0 0 -3 -3 -55	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63 -17	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51 -0.40
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER NER ER ER ER	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 132kV CHUKHA HEP 4*8 132kV GELEPHU-SALA: 132kV MOTANGA-RANG NEPAL IMPORT (FROM 132kV MAHENDRANAG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 1 0 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU II,2,4 & 400kU II,2,4 &	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74 -153 -466	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0 0 -3 -3 -55	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63 -17 -346	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51 -0.40 -8.31
Import/Exp 1	HVDC HVDC 765 kV 765 kV 765 kV 220 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN' Region ER ER NER NER NER NER ER ER ER	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 132kV CHUKHA HEP 4*8 132kV GELEPHU-SALA: 132kV MOTANGA-RANG NEPAL IMPORT (FROM 132kV MAHENDRANAG NEPAL IMPORT (FROM	0 442 0 0 0 1303 0 0 1303 0 0 1 1 CHANGES Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU II) i.e. BINAGURI IEP 6°170MW) RA 1&2 (& 220kV i.e. BIRPARA RECEIPT 84MW) KATI GIA 4 UP) GAR-TANAKPUR(NHPC) 4 BIHAR) UZAFFARPUR 1&2 CC (B'DESH) HANPUR (B'DESH) D/C	WR-NR 306 2503 2155 2664 2551 0 0 1 1 99 WR-SR Max (MW) -249 -246 -237 -31 18 0 -74 -153 -466	52.1 0.0 0.0 0.0 0.5 0.0 0.0 14.9 0.0 0.0 0.2 15.6 Min (MW) -39 240 -49 -18 -7 0 0 -3 -3 -55	0.0 260.9 7.2 43.9 23.8 43.6 41.6 0.0 0.0 0.0 160.1 Import(Avg (MW) -198 -23 -155 -25 6 0 -63 -17 -346	0.0 -208.8 -7.2 -43.9 -23.3 -43.6 -41.6 14.9 0.0 0.0 0.2 -144.5 +ve)/Export(-ve) Energy Exchange (MU) -4.74 -0.56 -3.71 -0.60 0.15 0.70 -1.51 -0.40 -8.31

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 23-Jan-2024

ort From India (in MII)

Export From In		T-GNA							
Country	GNA (ISGS/PPA)		COLLECTIVE						
		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	10.22	0.00	0.00	0.46	0.00	0.00	10.68
Nepal	0.24	0.00	7.47	0.00	0.00	0.22	0.00	0.00	7.93
Bangladesh	15.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.79
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	16.03	0.00	17.69	0.00	0.00	0.68	0.00	0.00	34.40

Import by India(in MU)

		T-GNA							
	GNA		COLLECTIVE						
Country (ISGA/PPA)		BILATERAL	IDAM			RTM			TOTAL
,		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47

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

11ct Hom maia	(III IVIC)						-10.	Export / +ve . II	проге
		T-GNA							
	GNA (ISGS/PPA)		COLLECTIVE						
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
ļ			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.47	0.00	-10.22	0.00	0.00	-0.46	0.00	0.00	-10.21
Nepal	-0.24	0.00	-7.47	0.00	0.00	-0.22	0.00	0.00	-7.93
Bangladesh	-15.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15.79
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-15.56	0.00	-17.69	0.00	0.00	-0.68	0.00	0.00	-33.93