

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

## POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन 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

दिनांक: 26<sup>th</sup> Oct 2020

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Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

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., 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 25.10.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-अक्टूबर-2020 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 25th October 2020, is available at the NLDC website.

धन्यवाद.

## पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day	Date of Reporting:	26-Oct-2020

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	43267	43236	32631	17901	2264	139299
Peak Shortage (MW)	6	0	0	0	10	16
Energy Met (MU)	931	1075	762	387	40	3195
Hydro Gen (MU)	140	34	120	81	26	400
Wind Gen (MU)	5	18	29	-	-	52
Solar Gen (MU)*	37.47	29.50	93.30	4.47	0.08	165
Energy Shortage (MU)	0.0	0.0	0.0	0.0	0.1	0.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44482	47460	34350	18124	2447	140372
Time Of Maximum Demand Met (From NLDC SCADA)	21:04	07:40	09:37	18:00	17:38	18:34

B. Frequency P	Profile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.019	0.00	0.00	1.46	1.46	86.49	12.05

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		day(MW)	Demand(MW)	` ′	(MU)	` '	, ,	(MU)
	Punjab	5552	0	112.1	88.3	-1.1	135	0.0
	Haryana	5878	0	126.0	114.8	0.3	310	0.0
	Rajasthan	11647	0	233.1	87.2	-0.1	684	0.0
	Delhi	3001	0	62.6	45.5	0.5	124	0.0
NR	UP	14982	0	292.1	124.8	-1.5	471	0.0
	Uttarakhand	1606	0	31.6	21.0	0.4	129	0.0
	HP	1323	0	25.2	14.1	0.4	118	0.0
	J&K(UT) & Ladakh(UT)	2506	0	45.0	35.8	-0.1	254	0.0
	Chandigarh	153	0	2.9	3.0	-0.1	21	0.0
	Chhattisgarh	3433	0	78.9	29.0	-0.8	181	0.0
	Gujarat	14132	0	324.4	68.4	2.0	550	0.0
	MP	11815	0	247.7	145.5	-2.2	256	0.0
WR	Maharashtra	17432	0	376.1	114.0	-1.8	538	0.0
	Goa	392	0	8.4	8.1	-0.2	62	0.0
	DD	301	0	4.1	4.7	-0.6	30	0.0
	DNH	740	0	16.0	16.1	-0.1	41	0.0
	AMNSIL	845	0	18.9	1.2	0.7	275	0.0
	Andhra Pradesh	7171	0	158.4	68.8	-1.5	346	0.0
	Telangana	6678	0	137.0	35.9	-0.5	490	0.0
SR	Karnataka	6926	0	135.1	52.9	-1.4	490	0.0
	Kerala	3079	0	62.0	39.0	-0.2	280	0.0
	Tamil Nadu	11901	0	263.4	166.0	-1.8	323	0.0
	Puducherry	291	0	6.2	6.7	-0.5	43	0.0
	Bihar	4887	0	91.5	90.6	-3.3	571	0.0
	DVC	2859	0	60.3	-44.0	-1.0	352	0.0
	Jharkhand	1341	0	27.1	21.1	-2.4	37	0.0
ER	Odisha	4203	0	89.1	16.4	-0.1	422	0.0
	West Bengal	6197	0	118.4	30.6	-0.2	351	0.0
	Sikkim	68	0	1.0	1.3	-0.2	16	0.0
	Arunachal Pradesh	111	2	1.9	2.1	-0.1	37	0.0
	Assam	1379	7	21.8	18.6	-0.4	117	0.0
	Manipur	196	0	2.5	2.4	0.0	28	0.0
NER	Meghalaya	301	0	5.5	-0.7	-0.4	21	0.0
- 12-22	Mizoram	91	3	1.4	0.6	0.5	40	0.0
	Nagaland	128	2	2.2	2.1	-0.1	11	0.0
	Tripura	267	1	4.4	4.2	-0.3	80	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	24.4	-0.3	-24.8
Day Peak (MW)	1137.0	-15.4	-1083.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	274.3	-259.2	88.5	-93.3	-10.4	0.0
Actual(MU)	271.0	-249.2	82.9	-104.4	-12.8	-12.5
O/D/U/D(MU)	-3.3	10.0	-5.6	-11.2	-2.4	-12.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6370	17005	11152	1700	910	37137
State Sector	14499	13932	15578	6805	11	50825
Total	20869	30937	26730	8505	921	87961

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	415	1155	314	437	4	2324
Lignite	17	7	20	0	0	44
Hydro	140	34	120	81	26	400
Nuclear	27	21	69	0	0	117
Gas, Naptha & Diesel	24	83	16	0	28	151
RES (Wind, Solar, Biomass & Others)	53	47	154	5	0	259
Total	676	1347	694	522	57	3296
Share of RES in total generation (%)	7.86	3.52	22.20	0.86	0.14	7.86
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	32.57	7.57	49.40	16.37	45.46	23.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.096

<sup>|</sup> Daser Oil State Max Defination | 1.096 |
| Diversity factor = Sum of regional or state maximum demands / All India maximum demand 
\*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: 26-Oct-2020

1	V-14 I1	Line Details	No. of Circuit	Mana Jaman and (MW)	Max Export (MW)	Investor (MIII)	Date of Reporting:	26-Oct-2020 NET (MU)
1	Voltage Level		No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NEI (MU)
_	rt/Export of ER (\) HVDC	ALIPURDUAR-AGRA	2	0	705	0.0	17.8	-17.8
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	0	923	0.0	11.7	-11.7
5	765 kV 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1	199	233 513	0.0	0.3 10.0	-0.3 -10.0
6	400 kV	PUSAULI-VARANASI	i	0	244	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	î	0	155	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	18	662	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	4	0	1074	0.0	15.6	-15.6
10 11	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2	0	433 234	0.0	6.2 4.5	-6.2 -4.5
12	400 kV	BIHARSHARIFF-VARANASI	2	185	294	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	1	0	90	0.0	1.6	-1.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 16	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	20 0	0	0.4	0.0	0.4
17	132 kV	KARMANASA-CHANDAULI	i	Ö	Ŏ	0.0	0.0	0.0
					ER-NR	0.4	90.9	-90.5
	rt/Export of ER (V		1	•				
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	483	293	6.2	0.0	6.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	967	0	12.7	0.0	12.7
3	765 kV	JHARSUGUDA-DURG	2	116	112	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	163	226	0.0	1.2	-1.2
5	400 kV	RANCHI-SIPAT	2	305	42	3.2	0.0	3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	168	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	94	48	0.7	0.0	0.7
T	-4/E err :	Mid-CD)			ER-WR	22.7	4.1	18.6
Impor	rt/Export of ER (V HVDC	JEYPORE-GAZUWAKA B/B	,	0	372	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	993	0.0	8.8 24.1	-8.8 -24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2732	0.0	44.7	-44.7
4	400 kV	TALCHER-I/C	2	910	0	18.4	0.0	18.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0 ED CD	0.0	0.0	0.0
Impo	rt/Export of ER (	With NER)			ER-SR	0.0	77.5	-77.5
1mpoi	400 kV	BINAGURI-BONGAIGAON	2	84	470	0.0	2.5	-2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	288	349	0.0	0.0	0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	26	142	0.0	0.8	-0.8
Ļ		ATTA NEW			ER-NER	0.2	3.3	-3.1
Impor	rt/Export of NER HVDC	(With NR) BISWANATH CHARIALI-AGRA		0	704	0.0	16.0	1/ 0
1	HADC	DISWANATH CHAKIALI-AGKA	4	. 0	704 NER-NR	0.0	16.9 16.9	-16.9 -16.9
Impo	rt/Export of WR (	With NR)				0.0	10.7	-10.7
1	HVDC	CHAMPA-KURUKSHETRA	2	0	349	0.0	16.6	-16.6
2	HVDC	VINDHYACHAL B/B	-	445	0	6.2	0.0	6.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	31.1	-31.1
4	765 kV	GWALIOR-AGRA	2 2	0	2364	0.0	45.4	-45.4
6	765 kV 765 kV	PHAGI-GWALIOR JABALPUR-ORAI	2	0	1635 1024	0.0	26.9	-26.9 41.4
7	765 kV	GWALIOR-ORAI	1	558	0	9.6	41.4 0.0	-41.4 9.6
8	765 kV	SATNA-ORAI	1	0	1355	0.0	30.1	-30.1
9	765 kV	CHITORGARH-BANASKANTHA	2	25	862	0.0	12.6	-12.6
10	400 kV	ZERDA-KANKROLI	1	48	180	0.0	2.1	-2.1
11	400 kV	ZERDA -BHINMAL	1	0	407	0.0	5.1	-5.1
13	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	981 0	0 448	22.8 0.0	0.0 5.9	22.8 -5.9
14	220 kV	BHANPURA-RANPUR	1	0	114	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.6	-0.6
16	220 kV	MEHGAON-AURAIYA	1	64	0	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	49	10	1.1	0.0	1.1
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Impo	rt/Export of WR (							
1		With SR)			WR-NR	40.0	219.0	-179.0
-				0	522	0.0	219.0	-179.0
2	HVDC HVDC	With SR) BHADRAWATI B/B RAIGARH-PUGALUR	2	0				
3	HVDC HVDC 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 1160	522 498 2298	0.0 0.0 0.0	12.2 12.0 17.6	-12.2 -12.0 -17.6
3	HVDC HVDC 765 kV 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	0 1160 605	522 498 2298 1811	0.0 0.0 0.0 0.0	12,2 12.0 17.6 16.8	-12.2 -12.0 -17.6 -16.8
3 4 5	HVDC HVDC 765 kV 765 kV 400 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2 2	0 1160 605 760	522 498 2298 1811 44	0.0 0.0 0.0 0.0 6.9	12.2 12.0 17.6 16.8 0.0	-12.2 -12.0 -17.6 -16.8 6.9
3	HVDC HVDC 765 kV 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	0 1160 605	522 498 2298 1811	0.0 0.0 0.0 0.0 6.9 0.0	12.2 12.0 17.6 16.8 0.0	-12.2 -12.0 -17.6 -16.8 6.9
3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2 2	0 1160 605 760	522 498 2298 1811 44 0 0 43	0.0 0.0 0.0 0.0 6.9 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0	-12.2 -12.0 -17.6 -16.8 -6.9 0.0 0.0
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 1	0 1160 605 760 0	522 498 2298 1811 44 0	0.0 0.0 0.0 0.0 6.9 0.0	12.2 12.0 17.6 16.8 0.0 0.0	-12.2 -12.0 -17.6 -16.8 -6.9 0.0
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 1 1	0 1160 605 760 0	522 498 2298 1811 44 0 0 0 WR-SR	0.0 0.0 0.0 0.0 6.9 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.0 -8 -50.9
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 1 1 1	0 1160 605 760 0 0 0	522 498 2298 1811 44 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6	-12.2 -12.0 -17.6 -16.8 -6.9 0.0 0.0 0.8 -50.9
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 2 1 1 1 INTER	0 1160 605 760 0 0 0 NATIONAL EXCHA!	522 498 2298 1811 44 0 0 0 WR-SR	0.0 0.0 0.0 0.0 6.9 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.0 -8 -50.9
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 2 1 1 1 INTER Line	0 1160 605 760 0 0 0 NATIONAL EXCHA! Name	522 498 2298 1811 44 0 0 43 WR-SR	0.0 0.0 0.0 0.0 6.9 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.0 -50.9 Energy Exchange
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 MANGDECHU HEP 4	0 1160 605 760 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from	522 498 2298 1811 44 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6	-12.2 -12.0 -17.6 -16.8 -6.9 0.0 0.0 0.8 -50.9
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU	0 1160 605 760 0 0 0 NATIONAL EXCHA! Name VALIPURDUAR 1&2 CEIPT (from *180MW)	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW)	0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW)	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MI)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE BINAGU	0 1160 605 760 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400KV RI) 1,6 BINAGURI	522 498 2298 1811 44 0 0 43 WR-SR	0.0 0.0 0.0 0.0 6.9 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.0 -50.9 Energy Exchange
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHH HEP 4 400kV TALA-BINAGU	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW)	0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW)	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MI)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRYAR.	0 1160 605 760 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW)	0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW)	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MI)
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER	2 2 2 2 1 1 1 INTER Line 400KV MANGDECHH Le. ALIPURDUAR HE MANGDECHU HEP 4 400KV TALA-BINAGU RECEIPT (from TALA RECEIPT (from TALA)	0 1160 605 760 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	522 498 2298 1811 44 0 0 WR-SR WGES Max (MW) 372	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW)	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.0 -0.8 -50.9 Energy Exchange (MII) 7.6
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGER, RECEIPT (from TALA RECEIPT (from CHUI	0 1160 605 760 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW) 372 459	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 7.7 Min (MW)	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MH) 7.6
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRYAR.	0 1160 605 760 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	522 498 2298 1811 44 0 0 WR-SR WGES Max (MW) 372	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW)	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.0 -0.8 -50.9 Energy Exchange (MII) 7.6
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 INTER Line 400KV MANGDECHH 16. ALPJURDJAR RE MANGDECHU HEP 4 400KV TALA-BINAGT MALBASE - BINAGU ECCEIPT (from TALA 220KV CHUKHA-BIR MALBASE - BIRPAR, RECEIPT (from CHUI 132KV-GEYLEGPHU	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 WR-SR WR-SR Max (MW) 372 459 203	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 7.7 Min (MW)	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MII) 7.6 
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUBGI KOLHAPUR-KUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGER, RECEIPT (from TALA RECEIPT (from CHUI	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW) 372 459	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 7.7 Min (MW)	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MH) 7.6
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 1 INTER Line 400KV MANGDECHH tle. ALIPURDUAR RE MANGDECHU HEP 4 400KV TALA-BINAGG MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-MOTANGA-Rangi	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 WR-SR WR-SR Max (MW) 372 459 203	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 7.7 Min (MW)	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MII) 7.6 
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER	2 2 2 2 1 1 1 INTER Line 400KV MANGDECHH 16. ALPJURDJAR RE MANGDECHU HEP 4 400KV TALA-BINAGT MALBASE - BINAGU ECCEIPT (from TALA 220KV CHUKHA-BIR MALBASE - BIRPAR, RECEIPT (from CHUI 132KV-GEYLEGPHU	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI) L.	522 498 2298 1811 44 0 0 WR-SR WR-SR Max (MW) 372 459 203	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 7.7 Min (MW)	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MII) 7.6 
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER	2 2 2 2 1 1 1 INTER Line 400KV MANGDECHH Lc. ALIPURDUAR RE MANCDECHU HEP 4 400KV TALA-BINACU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALA RECEIPT (from TALA 132KV-GEYLEGPHU 132KV GEYLEGPHU 132KV Motanga-Rangi	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,24 (& 400kV RI) L.	522 498 2298 1811 44 0 0 43 WR-SR WGES Max (MW) 372 459 203 54	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7 Min (MW) 290 443	12.2 12.0 17.6 16.8 9.0 9.0 9.0 9.0 9.0 58.6 Avg (MW) 318 451 171	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MH) -7.6 -10.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER  NER	2 2 2 2 1 1 1 1 INTER Line 400KV MANGDECHH ie. ALIPURDUAR RE MANGDECHU HEP 4 400KV TALABINAGI MALBASE - BINAGU ECEIPPI (From TALA 220KV CHUKHA-BIR MALBASE - BIRGOT 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(N MAHENDRANAGAR(	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 0 43 WR-SR NGES Max (MW) 372 459 203 54	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451 171 -33	-12.2 -12.0 -17.6 -16.8 -16.8 -19.0 -0.0 -0.8 -50.9  Energy Exchange (MI) -7.6
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER	2 2 2 2 1 1 1 INTER Line 400KV MANGDECHH Lc. ALIPURDUAR RE MANCDECHU HEP 4 400KV TALA-BINACU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALA RECEIPT (from TALA 132KV-GEYLEGPHU 132KV GEYLEGPHU 132KV Motanga-Rangi	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 43 WR-SR WGES Max (MW) 372 459 203 54	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7 Min (MW) 290 443	12.2 12.0 17.6 16.8 9.0 9.0 9.0 9.0 9.0 58.6 Avg (MW) 318 451 171	-12.2 -12.0 -17.6 -16.8 -6.9 -0.0 -0.8 -50.9 Energy Exchange (MH) -7.6 -10.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  IR  ER  NER  NER  NER  NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALA 220kV CHUKHA-BIRI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR( 132kV-BIHAR - NEP/	0 1160 1160 1160 1160 1160 1160 1160 11	S22   498   2298   1811   44   0   0   43   WR-SR   WR-SR   WS-SR   Max (MW)   372   459   203   54   49   0   -3	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7 Min (MW) 290 443 152 24	12.2 12.0 12.0 17.6 16.8 0.0 0.0 0.0 0.0 S8.6  Avg (MW)  318 451 171 -33 -43	-12.2 -12.0 -17.6 -16.8 -19.0 -0.0 -0.8 -50.9  Energy Exchange (MH)  7.6  10.8  -1.0  -0.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  ER  NER  NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALA 220kV CHUKHA-BIRI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR( 132kV-BIHAR - NEP/	0 1160 1160 1160 1160 1160 1160 1160 11	522 498 2298 1811 44 0 0 0 43 WR-SR NGES Max (MW) 372 459 203 54	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451 171 -33	-12.2 -12.0 -17.6 -16.8 -16.8 -19.0 -0.0 -0.8 -50.9  Energy Exchange (MI) -7.6
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  IR  ER  NER  NER  NER  NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALA 220kV CHUKHA-BIRI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR( 132kV-BIHAR - NEP/	0 1160 1160 1160 1160 1160 1160 1160 11	S22   498   2298   1811   44   0   0   43   WR-SR   WR-SR   WS-SR   Max (MW)   372   459   203   54   49   0   -3	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7 Min (MW) 290 443 152 24	12.2 12.0 12.0 17.6 16.8 0.0 0.0 0.0 0.0 S8.6  Avg (MW)  318 451 171 -33 -43	-12.2 -12.0 -17.6 -16.8 -19.0 -0.0 -0.8 -50.9  Energy Exchange (MH)  7.6  10.8  -1.0  -0.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  IR  ER  NER  NER  NER  NER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ic. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALA 220kV CHUKHA-BIRI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR( 132kV-BIHAR - NEP/	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW) IRI 1,24 (& 400kV RI 1,24 (& 400kV RI 1,24 (& 400kV A) i.e. BIRPARA KIM HEP (& 170MW) - SALAKATI a HH) - PG) ML UR - DHALKEBAR DC	S22   498   2298   1811   44   0   0   43   WR-SR   WR-SR   WS-SR   Max (MW)   372   459   203   54   49   0   -3	0.0 0.0 0.0 0.0 0.0 6.9 0.0 0.0 0.8 7.7 Min (MW) 290 443 152 24	12.2 12.0 12.0 17.6 16.8 0.0 0.0 0.0 0.0 S8.6  Avg (MW)  318 451 171 -33 -43	-12.2 -12.0 -17.6 -16.8 -19.0 -0.0 -0.8 -50.9 -10.8 -10.8 -10.8 -1.0 -0.8
3 4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  NER  NER  NER  NER  ER  ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH ie. ALIPURDUAR RE MANGBECHU HEP 4 400kV TALA-BINAGU RECEIPT (from TALA- 200kV TALA-BINAGU RECEIPT (from TALA- 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(M MAHENDRANAGAR( 132kV-BHAR - NEP/ 220kV-MUZAFFARP( 220kV-MUZAFFARP(	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from 180MW) IRI 1,24 (& 400kV RI 1,24 (& 400kV RI 1,24 (& 400kV A) i.e. BIRPARA KIM HEP (& 170MW) - SALAKATI a HH) - PG) ML UR - DHALKEBAR DC	522 498 2298 1811 44 0 0 43 WR-SR WR-SR Max (MW) 372 459 203 54 49 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451 171 -33 -43	-12.2 -12.0 -17.6 -16.8 -16.8 -16.9 -0.0 -0.8 -50.9  Energy Exchange (MI) -7.6
3 4 5 6 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  IR  ER  NER  NER  NER  NER  ER  ER  ER  E	2 2 2 2 1 1 1 1 INTER Line GARDECHH Le. ALIPURDUAR RE MANCDECHU HEP 4 400KY MANGDECHH Le. ALIPURDUAR RE MANCDECHU HEP 4 200KY CHUKHA-BIR MALBASE - BINAGU 132KV-GHUKHA-BIR 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-HUKHA-BIR 132KV-TANAKPUR(N MAHENDRANAGAR( 132KV-BIHAR - NEP/ 220KV-MUZAFFARP BHERAMARA HVDC 132KV-SURAJMANI 1	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from = 1880MV) IRI 1,2,4 (& 400kV RI) IRI	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW) 372 459 203 54 49 0 -3 -12	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.2 12.0 12.0 17.6 16.8 0.0 0.0 0.0 0.0 S8.6  Avg (MW)  318 451 171 -33 -43 0 -1	-12.2 -12.0 -17.6 -16.8 -19.0 -0.0 -0.8 -50.9 -10.8 -10.8 -10.8 -1.0 -0.8 -1.0 -0.0 -0.0 -0.3 -21.8
3 4 5 6 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  Region  ER  ER  NER  NER  NER  NER  ER  ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHH Le. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALABINAGI MALBASE - BINAGU MALBASE - BINAGU 132kV-GEVLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR 132kV-BHAR - NEP/	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from = 1880MV) IRI 1,2,4 (& 400kV RI) IRI	522 498 2298 1811 44 0 0 43 WR-SR WR-SR Max (MW) 372 459 203 54 49 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.2 12.0 17.6 16.8 0.0 0.0 0.0 0.0 58.6 Avg (MW) 318 451 171 -33 -43	-12.2 -12.0 -17.6 -16.8 -16.8 -16.9 -0.0 -0.8 -50.9  Energy Exchange (MI) -7.6 -10.8 -1.0 -0.0 -0.0 -0.0
3 4 5 6 7 8 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV BHUTAN	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI  ER  ER  IR  ER  NER  NER  NER  NER  ER  ER  ER  E	2 2 2 2 1 1 1 1 INTER Line GARDECHH Le. ALIPURDUAR RE MANCDECHU HEP 4 400KY MANGDECHH Le. ALIPURDUAR RE MANCDECHU HEP 4 200KY CHUKHA-BIR MALBASE - BINAGU 132KV-GHUKHA-BIR 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-HUKHA-BIR 132KV-TANAKPUR(N MAHENDRANAGAR( 132KV-BIHAR - NEP/ 220KV-MUZAFFARP BHERAMARA HVDC 132KV-SURAJMANI 1	0 1160 1160 605 760 0 0 0 0 NATIONAL EXCHA! Name U-ALIPURDUAR 1&2 CEIPT (from = 1880MV) IRI 1,2.4 (& 400KV IRI 1,2.4 (& 400KV R) 1 = 184 (& 400KV A) i.e. BINAGURI BEP (% 170MW) PARA 1&2 (& 220KV A) i.e. BIRPARA KUH AIFP 4*84MW) - SALAKATI  a III) UR - DHALKEBAR DC (BANGLADESH) NAGAR - DESH)-1	522 498 2298 1811 44 0 0 43 WR-SR NGES Max (MW) 372 459 203 54 49 0 -3 -12	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.2 12.0 12.0 17.6 16.8 0.0 0.0 0.0 0.0 S8.6  Avg (MW)  318 451 171 -33 -43 0 -1	-12.2 -12.0 -17.6 -16.8 -19.0 -0.0 -0.8 -50.9 -10.8 -10.8 -10.8 -1.0 -0.8 -1.0 -0.0 -0.0 -0.3 -21.8