

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, क़तुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 14th Oct 2020

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 13.10.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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:	14-Oct-2020
A Power Supply Position at All India and Dagional level		

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	53059	50909	35431	22812	3008	165219
Peak Shortage (MW)	778	0	0	77	102	957
Energy Met (MU)	1171	1172	765	483	57	3648
Hydro Gen (MU)	189	43	112	112	22	477
Wind Gen (MU)	9	27	118		-	154
Solar Gen (MU)*	39.15	25.75	58.77	4.70	0.13	128
Energy Shortage (MU)	0.5	0.0	0.0	0.2	1.9	2.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55487	51255	35462	23100	3126	166517
Time Of Maximum Demand Met (From NLDC SCADA)	19:14	18:42	18:43	18:57	18:05	18:44

Ali India	0.021	0.00	0.00	1.31	1.31	79.13	19.50	4
C. Power Sup	ply Position in States							
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	2.55	Schedule			Shortage
U		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Puniab	7740	0	163.7	117.8	0.0	133	0.0
	Harvana	7939	58	170.0	142.6	1.8	199	0.1
NR	Rajasthan	11526	0	242.7	85.8	1.4	619	0.0
	Delhi	4231	0	91.2	71.6	0.8	298	0.0
	UP	20073	0	384.1	159.3	0.6	361	0.4
	Uttarakhand	1905	0	37.4	22.7	-0.4	158	0.0
	HP	1435	0	30.2	14.4	-0.2	75	0.0
	J&K(UT) & Ladakh(UT)	2621	0	47.9	31.9	2.2	437	0.0
	Chandigarh	215	0	4.2	4.0	0.2	28	0.0
	Chhattisgarh	3638	0	83.2	21.0	-0.8	247	0.0
	Gujarat	17260	0	374.5	73.5	2.9	466	0.0
	MP	10651	0	239.3	149.2	-2.3	365	0.0
WR	Maharashtra	18862	0	421.0	139.9	-3.4	602	0.0
WK	Goa	457	0	9.3	8.8	-0.1	57	0.0
	DD	343	0	7.6	7.4	0.2	28	0.0
	DNH	807	0	18.8	18.7	0.1	68	0.0
	AMNSIL	850	0	18.2	1.2	0.5	266	0.0
	Andhra Pradesh	7127	0	134.5	40.8	0.0	1167	0.0
	Telangana	5826	0	118.2	34.6	-3.8	430	0.0
SR	Karnataka	7544	0	147.4	47.0	-0.8	596	0.0
SK	Karnataka Kerala	3203	0	64.4	37.5	0.1	173	0.0
	Tamil Nadu	13884	0	292.5	142.4	-4.5	405	0.0
		399	0	8.1	8.2		50	0.0
	Puducherry	***				0.0		
	Bihar	5876	0	116.5	112.6	-1.5	363	0.0
	DVC	3339	0	68.0	-47.5	0.2	357	0.0
	Jharkhand	1591	77	29.9	22.9	-1.4	115	0.2
ER	Odisha	4165	0	89.0	7.2	-0.3	444	0.0
	West Bengal	8637	0	178.6	67.5	5.4	707	0.0
	Sikkim	95	0	1.2	1.3	-0.1	24	0.0
	Arunachal Pradesh	124	1	2.3	2.1	0.2	35	0.0
	Assam	2028	70	36.3	32.7	0.3	162	1.8
	Manipur	213	1	2.8	2.6	0.2	19	0.0
NER	Meghalaya	305	0	5.4	0.8	-0.2	46	0.0
	Mizoram	102	1	1.7	0.9	0.5	17	0.0
	Nagaland	143	1	2.6	2.4	0.0	48	0.0
	Tripura	298	3	5.4	7.0	0.4	26	0.0

| D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve) | | Bhutan | Nepal | Bangladesh | Actual (MU) | 34.5 | 2.3 | 25.4 |

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	361.6	-317.8	40.1	-85.3	1.5	0.0
Actual(MU)	380.1	-317.2	4.3	-78.3	3.6	-7.4
O/D/U/D(MU)	18.6	0.6	-35.8	7.0	2.2	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5940	13338	10612	2035	275	32200
State Sector	13454	16548	15116	5085	112	50314
Total	19394	29885	25728	7120	387	82514
						-

G. Sourcewise generation (MU)

G. Bourcewise generation (Me)						
	NR	WR	SR	ER	NER	All India
Coal	490	1278	357	475	10	2611
Lignite	25	14	20	0	0	59
Hydro	189	43	112	112	22	477
Nuclear	27	20	63	0	0	110
Gas, Naptha & Diesel	23	98	14	0	27	161
RES (Wind, Solar, Biomass & Others)	61	53	208	5	0	327
Total	815	1505	775	592	59	3745
CI APPOLLANT AL (A/)						
Share of RES in total generation (%)	7.53	3.51	26.85	0.80	0.22	8.73
Chang of Non-facel firel (Hydro Nuclean and DEC) in total conception (9/)	24.01	5.50	40.42	10.66	25.12	24.41

H. All India Demand Diversity Factor

11 111 Hall Belland Biverbly Tuctor					
Based on Regional Max Demands	1.011				
Based on State Max Demands	1.054				

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 14-Oct-2020

C1							Date of Reporting:	14-Oct-2020
SI Vo	oltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	Export of ER (With NR)			· · · · · · · · · · · · · · · · · · ·			
1	HVDC	ALIPURDUAR-AGRA	2	0	700	0.0	17.2	-17.2
3	765 kV	PUSAULI B/B GAYA-VARANASI	- 2	0 19	297 550	0.0	7.1 7.4	-7.1 -7.4
4	765 kV	SASARAM-FATEHPUR	1	315	128	2.2	0.0	2.2
5	765 kV	GAYA-BALIA	1	0	504	0.0	9.8	-9.8
7	400 kV 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	263 114	0.0	5.3 1.7	-5.3 -1.7
8	400 KV	MUZAFFARPUR-GORAKHPUR	2	0	413	0.0	7.2	-7.2
9	400 kV	PATNA-BALIA	4	0	788	0.0	15.5	-15.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	301	0.0	5.4	-5.4
11 12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2	0 258	271 59	0.0 2.0	4.8 0.0	-4.8 2.0
13	220 kV	PUSAULI-SAHUPURI	Ĩ	0	128	0.0	2.2	-2.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 16	132 kV 132 kV	GARWAH-RIHAND	1 1	20	0	0.4	0.0	0.4
17		KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	4.5	83.5	-79.0
	Export of ER (
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	439	880	0.0	10.4	-10.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1820	0	25.1	0.0	25.1
3	765 kV	JHARSUGUDA-DURG	2	226	98	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	430	0	5.4	0.0	5.4
5	400 kV	RANCHI-SIPAT	2	600	0	9.7	0.0	9.7
7	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.8	-1.8
	220 kV	BUDHIPADAR-KORBA	2	181	0 ER-WR	3.3 43.7	0.0 12.2	3.3 31.5
Import/E	Export of ER (With SR)			ER-WK	73.1	14.4	31.3
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	377	0.0	8.7	-8.7
2		TALCHER-KOLAR BIPOLE	2	0	1632	0.0	32.6	-32.6
4	765 kV 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	537	1702 0	0.0 10.2	21.2 0.0	-21.2 10.2
5		BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	62.5	-62.5
Import/E	Export of ER (400 kV	With NER) BINAGURI-BONGAIGAON	,	0	519	0.0	6.5	-6.5
2	400 KV 400 kV	ALIPURDUAR-BONGAIGAON	2	0	562	0.0	7.3	-0.5 -7.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	140	0.0	2.2	-2.2
T4/E	Export of NER	(IIIId. ND)			ER-NER	0.0	16.0	-16.0
1		BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.5	-14.5
			<u> </u>		NER-NR	0.0	14.5	-14.5
	Export of WR							
2		CHAMPA-KURUKSHETRA	2	0	2512	0.0	78.2	-78.2
3	HVDC HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	0	499 1920	0.0	12.1 43.1	-12.1 -43.1
4	765 kV	GWALIOR-AGRA	2	0	3196	0.0	61.6	-61.6
5	765 kV	PHAGI-GWALIOR	2	0	1560	0.0	28.3	-28.3
7	765 kV 765 kV	JABALPUR-ORAI GWALIOR-ORAI	2	0 560	1282 0	0.0 11.0	49.0 0.0	-49.0 11.0
8	765 KV	SATNA-ORAI	1 1	0	1668	0.0	35,3	-35.3
9	765 kV	CHITORGARH-BANASKANTHA	2	0	798	0.0	11.6	-11.6
10	400 kV	ZERDA-KANKROLI	1	21	143	0.0	1.1	-1.1
11 12	400 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	88 967	228 0	0.0 22.2	1.8 0.0	-1.8 22.2
13		RAPP-SHUJALPUR	2	0	524	0.0	9.0	-9.0
14	220 kV	BHANPURA-RANPUR	1	0	155	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.3	-2.3
16 17		MEHGAON-AURAIYA MALANPUR-AURAIYA	1 1	93 46	0 34	0.1 1.0	0.2	-0.1 1.0
18		GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	
19		RAJGHAT-LALITPUR					U.U	0.0
Import/E			2	0	Ö	0.0	0.0	0.0
1	export of WD		2	U				
	Export of WR HVDC		-	348	Ö	0.0	0.0	0.0
2	HVDC HVDC	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR		348	0 WR-NR 312 741	0.0 34.3 5.6 0.0	0.0 336.1 0.8 20.7	0.0 -301.8 4.8 -20.7
3	HVDC HVDC 765 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2	348 0 1733	0 WR-NR 312 741 796	0.0 34.3 5.6 0.0 15.5	0.0 336.1 0.8 20.7 0.0	0.0 -301.8 4.8 -20.7 15.5
3 4	HVDC HVDC 765 kV 765 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	348 0 1733 960	0 WR-NR 312 741 796 748	0.0 34.3 5.6 0.0 15.5 0.7	0.0 336.1 0.8 20.7 0.0 0.0	0.0 -301.8 4.8 -20.7 15.5 0.7
3	HVDC HVDC 765 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2	348 0 1733	0 WR-NR 312 741 796	0.0 34.3 5.6 0.0 15.5 0.7 13.6	0.0 336.1 0.8 20.7 0.0 0.0	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6
2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2	348 0 1733 960 942	0 WR-NR 312 741 796 748 0 0	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0
2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	348 0 1733 960 942 0	0 WR-NR 312 741 796 748 0 0 0	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0
2 3 4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 1 1	348 0 1733 960 942 0	0 WR-NR 312 741 796 748 0 0 0 0 91 WR-SR	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0
2 3 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) 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 1 INTER	348 0 1733 960 942 0 0 1	0 WR-NR 312 741 796 0 0 0 0 91 WR-SR	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7
2 3 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2 1 1 1 INTER	348 0 1733 960 942 0 0 1 1 Name	0 WR-NR 312 741 796 748 0 0 0 0 91 WR-SR	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0	0.0 -301.8 4.8 -20.7 -15.5 -0.7 -13.6 -0.0 -1.7 -15.7 Energy Exchange
2 3 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) 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 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI	348 0 1733 960 942 0 0 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from	0 WR-NR 312 741 796 0 0 0 0 91 WR-SR	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7
2 3 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	348 0 1733 960 942 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from	0 WR-NR 312 741 796 748 0 0 0 0 91 WR-SR NGES Max (MW)	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 1.7 37.2 Min (MW)	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW)	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7 Energy Exchange (MII)
2 3 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUCALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGG	348 0 1733 960 942 0 0 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,2,4 (& 400KV) URI 1,2,4 (& 400KV)	0 WR-NR 312 741 796 748 0 0 0 0 91 WR-SR NGES Max (MW)	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 1.7 37.2 Min (MW)	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW)	0.0 -301.8 4.8 -20.7 15.5 -7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MII)
2 3 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARPHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGDECHU HEP 400kV TALA BINAG MALBASE - BINAGI RECEIPT (From TAL	348 0 1733 960 942 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,24 (4406K) A HEP (6*170MW)	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW)	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW)	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW)	0.0 -301.8 4.8 -20.7 -15.5 -0.7 -13.6 -0.0 -0.0 -1.7 -15.7 Energy Exchange (MII)
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARPHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGDECHI HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIS MALBASE - BIRPAG MALBASE - BIRPAG MALBASE - BIRPAG	348 0 1733 960 942 0 0 1 1 NATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,24 (& 400K) URI 1,2 4 (& 400K)	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW)	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW)	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW)	0.0 -301.8 4.8 -20.7 -15.5 -0.7 -13.6 -0.0 -0.0 -1.7 -15.7 Energy Exchange (MII)
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPÜR-RAICHÜR WARDHA-NIZAMABAD KOLHAPÜR-KÜDĞİ KOLHAPÜR-KÜDĞİ KOLHAPÜR-CHİKODİ PONDA-AMBEWADİ XELDEM-AMBEWADİ Region ER	2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPUDUAR RI MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGI RECEIPT (from TAL 220kV CHUKHA-BII	348 0 1733 960 942 0 0 1 1 NATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180MW) URI 1,24 (& 400K) URI 1,2 4 (& 400K) URI 1,2 4 (& 400K) URI 1,2 4 (& 400K) URI 1,2 4 (& 400K) URI 1,2 4 (& 400K) URI 1,2 4 (& 400K)	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 1.7 37.2 Min (MW) 424	0.0 336.1 0.8 0.8 20.7 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7 Energy Exchange (MII) 10.2
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARPHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGDECHI HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIS MALBASE - BIRPAG MALBASE - BIRPAG MALBASE - BIRPAG	348 0 1733 960 942 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 1.7 37.2 Min (MW) 424	0.0 336.1 0.8 0.8 20.7 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7 Energy Exchange (MII) 10.2
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPÜR-RAICHÜR WARDHA-NIZAMABAD KOLHAPÜR-KÜDĞİ KOLHAPÜR-KÜDĞİ KOLHAPÜR-CHİKODİ PONDA-AMBEWADİ XELDEM-AMBEWADİ Region ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGBECH HEP 400kV TALA-BINAG MALBASE - BINAGI RECEIPT (from TAL 220kV CHUKHA-BIS RECEIPT (from CHU	348 0 1733 960 942 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424	0.0 336.1 0.8 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MU) 10.2
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARPHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER	2 2 2 2 1 1 1 INTER Line 400kV MANGDECHI i.e. ALIPURDUAR RI MANGBECH HEP 400kV TALA-BINAG MALBASE - BINAGI RECEIPT (from TAL 220kV CHUKHA-BIS RECEIPT (from CHU	348 0 0 1733 960 942 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*180AW) URI 1,2-1 (& 400K) URI 1,2-1 (& 200K) A) Le. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220K) A) Le. BIRPARA (kKHA HEP 4*94MW) U- SALAKATI	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424	0.0 336.1 0.8 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MU) 10.2
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 260 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 2 1 1 1 1 INTER Line Line Line Lea ALIPURDUAR RI MANGDECHH HEP 400KY TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRPAK RECEIPT (from TAL 132KV-GEYLEGPHU 132KV Motanga-Rang	348 0 0 1733 960 942 0 0 1 1 NAME **RATIONAL EXCHA!** **PARA 1&2 **ECEIPT (from 4*180 MW) URI 1,2-4 (8-400 W) URI 1,2-4 (8	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424	0.0 336.1 0.8 0.8 20.7 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MII) 10.2 15.0 6.9
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 260 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER	2 2 2 2 1 1 1 INTER Line 400KV MANGBECHI Line 400KV TALA BINAG MANGBECHI HEP 400KV TALA BINAG MALBASE - BINAGI RECEIPT (from TAL 200KV CHUKHA-BIF MALBASE - BIRPAR MALBASE - BIRPAR I32KV-GEYLEGPHU 132KV Motanga-Rang 132KV-TANAKPUR(348 0 1733 960 942 0 0 1 1 NATIONAL EXCHA! Name RICALIPURDUAR 182 ECEIPT (from 4*180MW) URI 1,24*16*400KV URI 1,24*16*400KV URI 1,24*16*400KV KIA HEP (8*270KW) A) Le. BIRAGURI A HEP (8*270KW) LOSALAKATI Ja NH) -	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424	0.0 336.1 0.8 0.8 20.7 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MII) 10.2 15.0 6.9
2 3 4 4 5 6 7 8	HVDC HVDC 765 kV 765 kV 260 kV 220 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPÜR-RAICHÜR WARDHA-NIZAMABAD KOLHAPÜR-KÜDĞİ KOLHAPÜR-KÜDĞİ KOLHAPÜR-CHİKODİ PONDA-AMBEWADİ XELDEM-AMBEWADİ ER ER ER ER NER	2 2 2 2 1 1 1 1 INTER Line Line Line Lea ALIPURDUAR RI MANGDECHH HEP 400KY TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRPAK RECEIPT (from TAL 132KV-GEYLEGPHU 132KV Motanga-Rang	348 0 1733 960 942 0 0 1 1 NATIONAL EXCHA! Name RICALIPURDUAR 182 ECEIPT (from 4*180MW) URI 1,24*16*400KV URI 1,24*16*400KV URI 1,24*16*400KV KIA HEP (8*270KW) A) Le. BIRAGURI A HEP (8*270KW) LOSALAKATI Ja NH) -	0 WR-NR 312 741 796 0 0 91 WR-SR NGES Max (MW) 435 682 342	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.1 1.7 37.2 Min (MW) 424 597 0 39	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7 Energy Exchange (MII) 10.2 15.0 6.9 -1.0
2 3 4 4 5 6 7 8 S	HVDC HVDC 765 kV 765 kV 260 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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 i.e. ALIPURDUAR RI MANGDECHU HEP 400KV TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI RECEIPT (From TAL 120KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(MAHENDRANAGAR	348 0 1733 960 942 0 0 1 ENATIONAL EXCHA! Name RIU-ALIPURDUAR 182 ECEIPT (from 4*180MW) URI 1,2,4 (8 400K) URI 1,2,4 (8 400K) URI 0,2,6 (8 220K) A HEP (6*170MW) EPARA 182 (6 220K) A) i.e. BIRPARA MICHAEL 184 U - SALAKATI iia NH) - ((PG)	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435 682 342 48 64	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424 597 0 39	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40 -58	0.0 -301.8 4.8 -20.7 -15.5 -0.7 -13.6 -0.0 -0.0 -1.7 -15.7 Energy Exchange (MII) -10.2 -1.0 -1.4 -0.4
2 3 4 4 5 6 7 8 S	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	(With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPÜR-RAICHÜR WARDHA-NIZAMABAD KOLHAPÜR-KÜDĞİ KOLHAPÜR-KÜDĞİ KOLHAPÜR-CHİKODİ PONDA-AMBEWADİ XELDEM-AMBEWADİ ER ER ER ER NER	2 2 2 2 1 1 1 INTER Line 400KV MANGBECHI Line 400KV TALA BINAG MANGBECHI HEP 400KV TALA BINAG MALBASE - BINAGI RECEIPT (from TAL 200KV CHUKHA-BIF MALBASE - BIRPAR MALBASE - BIRPAR I32KV-GEYLEGPHU 132KV Motanga-Rang 132KV-TANAKPUR(348 0 1733 960 942 0 0 1 ENATIONAL EXCHA! Name RIU-ALIPURDUAR 182 ECEIPT (from 4*180MW) URI 1,2,4 (8 400K) URI 1,2,4 (8 400K) URI 0,2,6 (8 220K) A HEP (6*170MW) EPARA 182 (6 220K) A) i.e. BIRPARA MICHAEL 184 U - SALAKATI iia NH) - ((PG)	0 WR-NR 312 741 796 0 0 91 WR-SR NGES Max (MW) 435 682 342	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.1 1.7 37.2 Min (MW) 424 597 0 39	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 1.7 15.7 Energy Exchange (MII) 10.2 15.0 6.9 -1.0
2 3 4 4 5 6 7 8 S	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI Region ER ER ER NER NER	2 2 2 2 1 1 1 1 INTER Line 4008V MANGDECHH i.e. ALIPURDIAR RI MANGDECHU HEP 4008V TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRAGA MALBASE - BIRAG	348 0 1733 960 1733 960 942 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*189MW) URI 1,2,4 (& 400EV) URI 1,2,4 (& 40EV) URI 1,2,4 (& 40EV) URI 1,2,4 (& 40EV) URI 1,2,4 (& 40EV) URI 1,4 (& 40EV) URI 1,4 (& 40EV) URI 1,4 (& 40EV) URI 1,4 (& 20EV) URI 1,4 (& 40EV)	0 WR-NR 312 7741 796 0 0 0 91 WR-SR NGES Max (MW) 435 682 342 48 64	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.1 1.7 37.2 Min (MW) 424 597 0 39 46	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40 -58	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MII) 10.2 15.0 6.9 -1.0 -1.4 -0.4
2 3 4 4 5 6 7 8 S	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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 MANGDECHI i.e. ALIPURDUAR RI MANGDECHU HEP 400kV TALA BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRPAK RECEIPT (from TAL 220kV CHUKHA-BIS HALBASE - BIRPAK RECEIPT (from CHL 132kV-GEYLEGPHU 132kV-TANAKPUR MAHENDRANAGAB 132kV-BIHAR - NEP	348 0 1733 960 1733 960 942 0 0 1 1 ENATIONAL EXCHA! Name HU-ALIPURDUAR 1&2 ECEIPT (from 4*189MW) URI 1,2,4 (& 400EV) URI 1,2,4 (& 40EV) URI 1,2,4 (& 40EV) URI 1,2,4 (& 40EV) URI 1,2,4 (& 40EV) URI 1,4 (& 40EV) URI 1,4 (& 40EV) URI 1,4 (& 40EV) URI 1,4 (& 20EV) URI 1,4 (& 40EV)	0 WR-NR 312 741 796 0 0 0 91 WR-SR NGES Max (MW) 435 682 342 48 64	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424 597 0 39	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40 -58	0.0 -301.8 4.8 -20.7 -15.5 -0.7 -13.6 -0.0 -0.0 -1.7 -15.7 Energy Exchange (MII) -10.2 -1.0 -1.4 -0.4
2 3 4 4 5 6 7 8 S	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	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 NER ER ER	2 2 2 2 1 1 1 1 INTER Line Line Line Line Line Line Line Line	348 0 1733 960 17733 960 942 0 0 1 1 ENATIONAL EXCHA! Name RU-ALIPURDUAR I&2 ECEIPT (from 4*180MW) URI 1;4 (8*400K) URI 1;4 (0 WR-NR 312 741 796 0 0 91 WR-SR NGES Max (MW) 435 682 342 48 64 -47 -62	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.0 1.7 37.2 Min (MW) 424 597 0 39 46	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40 -58	0.0 -301.8 -301.8 -4.8 -20.7 -15.5 -0.7 -13.6 -0.0 -0.0 -1.7 -15.7 Energy Exchange (MII) -10.2 -1.0 -1.4 -0.4 -0.5 -1.4
3 4 5 6 7 8 S	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI PONDA-AMBEWADI Region ER ER ER NER NER	2 2 2 2 1 1 1 1 INTER Line 4008V MANGDECHH i.e. ALIPURDIAR RI MANGDECHU HEP 4008V TALA-BINAG MALBASE - BINAGI MALBASE - BINAGI MALBASE - BIRAGA MALBASE - BIRAG	348 0 1733 960 17733 960 942 0 0 1 1 ENATIONAL EXCHA! Name RU-ALIPURDUAR I&2 ECEIPT (from 4*180MW) URI 1;4 (8*400K) URI 1;4 (0 WR-NR 312 7741 796 0 0 0 91 WR-SR NGES Max (MW) 435 682 342 48 64	0.0 34.3 5.6 0.0 15.5 0.7 13.6 0.0 0.1 1.7 37.2 Min (MW) 424 597 0 39 46	0.0 336.1 0.8 20.7 0.0 0.0 0.0 0.0 0.0 0.0 21.5 Avg (MW) 426 625 289 -40 -58	0.0 -301.8 4.8 -20.7 15.5 0.7 13.6 0.0 0.0 1.7 15.7 Energy Exchange (MII) 10.2 15.0 6.9 -1.0 -1.4 -0.4

BANGLADESH	NED	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-71	-1.7
		132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-71	-1.7