

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंटोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 08th April 2023

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 7.04.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-अप्रैल-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 07th April 2023, is available at the NLDC website.

धन्यवाद.

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Date of Reporting: Report for previous day

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	49427	55680	47740	23869	2572	179288
Peak Shortage (MW)	0	0	0	331	22	353
Energy Met (MU)	1025	1378	1248	522	49	4222
Hydro Gen (MU)	116	49	72	40	11	287
Wind Gen (MU)	44	106	33		-	183
Solar Gen (MU)*	142.49	51.98	113.54	6.07	1.20	315
Energy Shortage (MU)	0.90	0.00	0.00	4.67	1.23	6.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52050	65159	60428	24428	2779	193282
Time Of Maximum Demand Met (From NLDC SCADA)	19:41	11:15	11:59	19:47	18:21	11:00

B. Frequency Profile (%) Region All India FVI 0.049 49.8 - 49.9

C. Power Supp	oly Position in States						11 05	_
		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage
		day(MW)	Demand(MW)	(IVIC)	(MU)	(MC)	(14144)	(MU)
	Punjab	6142	0	129.3	34.8	-1.2	88	0.47
	Haryana	6646	0	128.6	91.3	-0.5	181	0.00
	Rajasthan	11329	0	229.3	31.5	-4.9	245	0.00
	Delhi	3766	0	74.0	73.3	-1.8	105	0.00
NR	UP	18745	0	329.3	97.0	-0.2	1413	0.00
	Uttarakhand	1952	0	39.3	27.5	0.3	108	0.19
	HP	1749	0	32.3	21.6	0.3	103	0.24
	J&K(UT) & Ladakh(UT)	2875	0	56.3	49.1	-1.7	215	0.00
	Chandigarh	179	0	3.3	3.2	0.1	24	0.00
	Railways_NR ISTS	149	0	3.2	3.2	0.0	18	0.00
	Chhattisgarh	5153	0	116.2	62.0	-1.1	278	0.00
	Gujarat	19488	0	428.5	213.5	1.1	826	0.00
	MP	11318	0	239.0	142.1	-2.7	621	0.00
WR	Maharashtra	27349	0	522.8	190.1	-2.3	663	0.00
	Goa	685	0	13.9	13.8	-0.4	61	0.00
	DNHDDPDCL	1252	0	28.9	29,2	-0.3	39	0.00
	AMNSIL	763	0	16.6	7.6	0.3	293	0.00
	BALCO	519	0	12.4	12.4	0.0	12	0.00
	Andhra Pradesh	11668	0	233.5	83.0	1.4	638	0.00
	Telangana	13560	0	265.3	135.5	-0.3	646	0.00
SR	Karnataka	14332	0	277.1	130.8	0.8	908	0.00
	Kerala	4117	0	83.3	63.0	-0.5	193	0.00
	Tamil Nadu	17848	0	379.0	243.3	1.1	741	0.00
	Puducherry	414	0	9.8	9.7	-0.6	9	0.00
	Bihar	5751	0	105.1	93.3	-1.5	263	0.82
	DVC	3566	0	75.7	-48.2	-0.3	496	0.00
	Jharkhand	1399	179	31.0	24.6	0.3	103	3.85
ER	Odisha	5350	0	108.5	36.9	-1.3	375	0.00
	West Bengal	9055	0	200.3	55.8	-0.9	189	0.00
	Sikkim	101	0	1.6	1.5	0.1	49	0.00
	Arunachal Pradesh	140	0	2.4	2.5	-0.2	35	0.00
	Assam	1687	0	30.2	23.1	0.1	88	0.00
	Manipur	185	0	2.7	2.8	-0.1	32	0.00
NER	Meghalaya	310	22	4.9	3.3	0.0	33	1.23
	Mizoram	103	0	1.6	1.5	-0.3	3	0.00
	Nagaland	124	0	2.1	2.2	-0.1	21	0.00
	Tripura	273	0	5.3	4.8	0.5	60	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve) Bangladesh -20.7 -1024.0 Nepal -10.9 -529.1 Godda -> Bangladesh -16.3 Bhutan Actual (MU)

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	60.2	-136.2	230.8	-150.3	-4.4	0.0
Actual(MU)	45.9	-127.1	236.4	-160.4	-4.1	-9.3
O/D/U/D(MU)	-14.3	9.1	5.7	-10.1	0.3	-9.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5037	12246	3648	1680	534	23144	44
State Sector	11055	11061	5681	1670	348	29814	56
Total	16092	23306	9329	3350	882	52958	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	674	1384	698	733	17	3506	76
Lignite	22	21	64	0	0	107	2
Hydro	116	49	72	40	11	287	6
Nuclear	30	33	69	0	0	133	3
Gas, Naptha & Diesel	7	14	7	0	31	58	1
RES (Wind, Solar, Biomass & Others)	207	160	173	7	1	548	12
Total	1056	1661	1082	780	59	4639	100
Share of RES in total generation (%)	19.59	9.62	15.94	0.94	2.02	11.81	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.41	14.58	29.00	5.79	19.99	20.83	

H. All Ilidia Delland Diversity Factor	
Based on Regional Max Demands	1.060
Based on State Max Demands	1.087

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.

*Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

								Date of Reporting:	08-Apr-2023
	Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)		
	Impo						*****		
1		HVDC	ALIPURDUAR-AGRA	2					0.0
	2	HVDC 765 bV	PUSAULI B/B CAVA VADANASI	- ;					-7.1 10.8
STATE	4							6.3	
								8.5	
B				1					
10		400 kV	MUZAFFARPUR-GORAKHPUR	2					
10				2					
10				2				0.6	
10 10 10 10 10 10 10 10	12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2		455 271			
10 10 10 10 10 10 10 10	14	220 kV	SAHUPURI-KARAMNASA	1	0		0.0		-2.8
13 13 13 13 13 13 13 13									
18 15 15 15 15 15 15 15	17	132 kV	KARMANASA-SAHUPURI		0	36	0.0	0.0	0.0
Impure For Vision Will	18	132 kV	KARMANASA-CHANDAULI	1	0	0			
1	Impo	rt/Evport of FR (V	With WR)			ER-NK	0.6	/5.5	-74.9
1				4	1295	0	17.0	0.0	17.0
	2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	539		0.0		-4.0
BOOK BANKHARY 2									
	- 5	400 kV	RANCHI-SIPAT	2		250			-2.9
Imperformance Fig. 17 1 1 2 2 2 2 2 2 2 2		220 kV 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	0 66		0.0		
Images Fig. With SER		220 K	Bebili ibik kokul						
1 PATCHE ACCURATE NATIONAL 2 0 1000 0 0 1 1 1 1 1	Impo								
1	1,	HVDC	JEYPORE-GAZUWAKA B/B	2					
BORN TALCHERS 2 252 105 0.0 1.5 1.5 1.5		765 kV	ANGUL-SRIKAKULAM	2	0			62.2	
Import Fager of ER (With NEE)		400 kV	TALCHER-I/C	2					-1.5
	5	220 kV	BALIMELA-UPPER-SILERRU	1	0				
	Impo	ort/Export of ER (V	With NER)			EK-SK	0.0		-11/-0
1	1	400 kV	BINAGURI-BONGAIGAON	2				0.4	
Import Export of cardia CWith cardia Section Se	3			2 2					
Imagenetic posterior Imagenetic posterior		AND AT							
Import September Septemb			> (With <null>)</null>	•			•		-
ImportCapert of WR (With NR)	No Reco	ords Found							
HUNC						NER-NR	0.0	0.0	0.0
PATE VINDINACHAL BB	Impo							12.4	
4 70 10 10 10 10 10 10 10	2			- 2					
5 7654V CMALIQUE PRIACE 2 972 1901 10 220		HVDC	MUNDRA-MOHINDERGARH					0.0	
1			GWALIOR-AGRA GWALIOR-PHAGI	2					
1	6	765 kV		2	70			15.0	
755 \$ \$ \$ \$ \$ \$ \$ \$ \$									
19 755 IV VINDITACHALVARANSI 2 0 2371 0.0 225 225									
13 490 M. M. M. M. M. M. M. M		765 kV	VINDHYACHAL-VARANASI	2	0			28.5	-28.5
14 4904W RAPP-RITALPUR									
15 2294 V BIRAYPERA-RANDER		400 kV	VINDHYACHAL -RIHAND					0.0	
16 220 AV BHANTIRAMORAK		400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR	1					
18 2204X MALANFERAURANA	16			1	0			0.0	
1324Y CWALORSAWAIAMADHOFUR									
Import/Export of WR (With SR)	19	132 kV	GWALIOR-SAWAI MADHOPUR		0	0	0.0	0.0	0.0
Import Export of WR (With SR)	20	132 kV	RAJGHAT-LALITPUR	2	0				
HVDC	Impo	rt/Evport of WR (With SR)			WK-NK	141.5	121.1	20.3
3 765 kV WARDHANIZMARAD 2 297 1987 0.3 21.3 -21.1	1			-	0	1023	0.0	24.0	24.0
1		HVDC	RAIGARH-PUGALUR		0				
S 400 kV KOHAPUR-KURGI 2 1271 0 19.5 0.0 19.5					20-			95.9	-95.9
7 220 kV PONDA-AMBEWADI		400 kV		2		1987	0.3	95.9 21.3	-95.9 -21.1
NEPAL SELDEM-AMBEWADI 1 1 125 2.3 0.0 2.3 2.3 2.5 2.5 19.3 1.71.2		220 kV	KOLHAPUR-KUDGI	2	0 1271	1987 2974 0	0.3 0.0 19.5	95.9 21.3 52.1 0.0	-95.9 -21.1 -52.1 19.5
NTERNATIONAL EXCHANGES State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange Max (MW) Min (MW) Min (MW) Avg (MW) Energy Exchange Max (MW) Min (MW)		220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2	0 1271 0	1987 2974 0	0.3 0.0 19.5 0.0	95.9 21.3 52.1 0.0 0.0	-95.9 -21.1 -52.1 19.5 0.0
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange (MI)		220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2	0 1271 0 0	1987 2974 0 0 0	0.3 0.0 19.5 0.0 0.0 2.3	95.9 21.3 52.1 0.0 0.0 0.0	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3
Max (MW) Max (MW) Avg (3FW) MMI)		220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1	0 1271 0 0	1987 2974 0 0 0	0.3 0.0 19.5 0.0 0.0 2.3	95.9 21.3 52.1 0.0 0.0 0.0	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3
BRITAN ER ADPUDIAR RECEIPT (from MANGDECHIU 152 37 -28 -0.68		220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1	0 1271 0 0	1987 2974 0 0 0	0.3 0.0 19.5 0.0 0.0 2.3	95.9 21.3 52.1 0.0 0.0 0.0 193.3	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve)
HEP 4*180MW FR	E	220 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 TERNATIONAL EX	0 1271 0 0 1 1	1987 2974 0 0 0 10 125 WR-SR	0.3 0.0 19.5 0.0 0.0 2.3 22.1	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange
BHUTAN ER		220 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU	0 1271 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 10 125 WR-SR	0.3 0.0 19.5 0.0 0.0 2.3 22.1	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW)	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange
BHUTAN ER		220 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI	0 1271 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 10 125 WR-SR	0.3 0.0 19.5 0.0 0.0 2.3 22.1	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW)	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange
BHUTAN ER		220 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4*180MW	0 1271 0 0 1 1 CHANGES Name MLIPURDUAR 1,2&3 i.e. (from MANGDECHU	1987 2974 0 0 0 10 125 WR-SR	0.3 0.0 19.5 0.0 0.0 2.3 22.1	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW)	-95.9 -21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange
BHUTAN ER MALBASE - BIRPARA 16. BIRPARA 137 -67 -104 -2.50		220 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHHU-ALIPURDUAR RECEIPI 400kV TALA-BINAGURI MALBASE BINAGURI MALBASE BINAGURI MALBASE BINAGURI	0 1271 0 0 1271 1 CHANGES Name MIPURDUAR 1,2&3 i.e. (from MANGECHU 1,2,4 (& 400kV) i.e. BINAGURI	1987 2974 0 0 0 125 WR-SR	9.3 9.0 19.5 9.0 9.0 9.0 2.3 22.1 Min (MW)	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28	95.9 21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68
NER 132kV MOTANGA-RANGIA 0 0 0 0.00		220 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANGDERHEC-19180MW 1 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE	0 1 1271 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR	9.3 9.0 19.5 9.0 9.0 9.0 2.3 22.1 Min (MW)	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28	95.9 21.1 -52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68
NER 132kV MOTANGA-RANGIA 0 0 0 0.00		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 2 2 2 1 IIIIIIIIIIIIIIIIIIIIIIIIIIIII	0 1 1271 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW)	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW)	95.9 21.3 52.1 6.0 6.0 6.0 6.0 193.3 Import Avg (MW) -28	95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -171.2 -ve)/Export(-ve) Energy Exchange (MI) -0.68
NER 132kV MOTANGA-RANGIA 0 0 0 0.00		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 2 2 1 1 TERNATIONAL EX 1 INTERNATIONAL EX Line 400KV MANGDECHHI- ALIPURDUAR RECEIPI HEP 4*180MW) 400KV TALA BINAGURI MALBASE - BINAGURI	0 1271 0 1 171 1 1 CHANGES Name LIPURDUAR 1,2&3 Le. (from MANGDECHU 1,2,4 (& 400kV) Le. BINAGURI EP 64'170MW KA 1&2 (& 220kV	1987 2974 0 0 0 125 WR-SR Max (MW)	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW)	95.9 21.3 52.1 6.0 6.0 6.0 6.0 193.3 Import Avg (MW) -28	95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -171.2 -ve)/Export(-ve) Energy Exchange (MI) -0.68
NR 132kV MAHENDRANAGAR-TANAKPUR(NHPC) -75 0 -58 -1.39 NEPAL ER NEPAL IMPORT (FROM BIHAR) -96 -50 -76 -1.82 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 -358 -242 -320 -7.68 ER BHERAMARA B/B HVDC (B/DESH) -918 0 -771 -18.51 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B/DESH) D/C -764 0 -680 -16.32		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	TERNATIONAL EX 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1271 0 0 1 171 1 1 CHANGES Name LIPURDUAR 1,2&3 Le. (from MANGDECHU 1,2,4 (& 400kV) i.e. BIRAGURI EP 6*170MW RA 1&2 (& 220kV	1987 2974 0 0 0 125 WR-SR Max (MW) -152	0.3 0.0 19.5 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89	95.9 21.1 52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MI) -0.68 2.14
NR 132kV MAHENDRANAGAR-TANAKPUR(NHPC) -75 0 -58 -1.39 NEPAL ER NEPAL IMPORT (FROM BIHAR) -96 -50 -76 -1.82 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 -358 -242 -320 -7.68 ER BHERAMARA B/B HVDC (B/DESH) -918 0 -771 -18.51 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B/DESH) D/C -764 0 -680 -16.32		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	TERNATIONAL EX 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1271 0 0 1 171 1 1 CHANGES Name LIPURDUAR 1,2&3 Le. (from MANGDECHU 1,2,4 (& 400kV) i.e. BIRAGURI EP 6*170MW RA 1&2 (& 220kV	1987 2974 0 0 0 125 WR-SR Max (MW) -152	0.3 0.0 19.5 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89	95.9 21.1 52.1 19.5 0.0 0.0 2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MI) -0.68 2.14
NEPAL ER NEPAL IMPORT (FROM BIHAR) .96 .50 .76 .1.82		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER	2 2 2 1 1 TERNATIONAL EX Line 600KY MANGBECHHU- ALIPURDUAR RECEIPT HEP 4-LINGUE HEP	0 1 1271 0 0 1 1271 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104	95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -177.2 -+ve)/Export(-ve) Energy Exchange (MI) -0.68 -2.14 -2.50
NEPAL ER NEPAL IMPORT (FROM BIHAR) .96 .50 .76 .1.82		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER	2 2 2 1 1 TERNATIONAL EX Line 600KY MANGBECHHU- ALIPURDUAR RECEIPT HEP 4-LINGUE HEP	0 1 1271 0 0 1 1271 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104	95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -177.2 -+ve)/Export(-ve) Energy Exchange (MI) -0.68 -2.14 -2.50
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 .358 .242 .320 .7.68 ER BHERAMARA B/B HVDC (B'DESH) .918 0 .771 .18.51 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C .764 0 .489 .16.32		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER	TERNATIONAL EX 2 2 1 1 1 TERNATIONAL EX 400kV MANGDERHIC- 400kV MANGDERHIC- HEP 4*180MW 400kV TALA-BINAGURI MALBASE - BINAGURI 132kV GELEPHU-SALAI 132kV GELEPHU-SALAI 132kV MOTANGA-RANG	0 1271 0 0 1271 0 0 1 1271 0 0 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.0 -2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68 -2.14 -2.50 -0.18
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 .358 .242 .320 .7.68 ER BHERAMARA B/B HVDC (B'DESH) .918 0 .771 .18.51 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C .764 0 .489 .16.32		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER	TERNATIONAL EX 2 2 1 1 1 TERNATIONAL EX 400kV MANGDERHIC- 400kV MANGDERHIC- HEP 4*180MW 400kV TALA-BINAGURI MALBASE - BINAGURI 132kV GELEPHU-SALAI 132kV GELEPHU-SALAI 132kV MOTANGA-RANG	0 1271 0 0 1271 0 0 1 1271 0 0 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.0 -2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68 -2.14 -2.50 -0.18
ER BHERAMARA B/B HVDC (B'DESH) -918 0 -771 -18.51 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -764 0 -680 -16.32		220 kV 220 kV State	ROLHAPUR-KUDGI ROLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER	2 2 2 1 1 1 TERNATIONAL EX. Line 300kV MANGDERHC-II ALIPURDUAR ENCEIPI H00kV TALA.BINAGURI MALBASE - BINAGURI MALBASE - BINAGU	0 1271 0 0 1771 0 1 1771 0 1 1781 0 1881 1881	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14	0.3 0.0 19.5 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91 -67 0	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8	95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.3 -177.2 -ve)/Export(-ve) Energy Exchange (MI) -0.68 -1.14 -2.50 -0.18 -0.00
ER BHERAMARA B/B HVDC (B'DESH) -918 0 -771 -18.51 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -764 0 -680 -16.32		220 kV 220 kV State	ROLHAPUR-KUDGI ROLHAPUR-KUKODI PONDA-AMBEWADI XELDEM-AMBEWADI Region ER ER ER NER NER	2 2 2 1 1 1 TERNATIONAL EX. Line 300kV MANGDERHC-II ALIPURDUAR ENCEIPI H00kV TALA.BINAGURI MALBASE - BINAGURI MALBASE - BINAGU	0 1271 0 0 1771 0 1 1771 0 1 1781 0 1881 1881	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14	0.3 0.0 19.5 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91 -67 0	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8	95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.3 -177.2 -ve)/Export(-ve) Energy Exchange (MI) -0.68 -1.14 -2.50 -0.18 -0.00
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C .764 0 -680 .16.32		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER NER NER	2 2 2 1 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 TORNAMENT EX 1	0. 1271 0. 0. 1. 1. 0. 0. 1. 1. CHANGES Name 1. LPURDUAR 1,2&3 1c. (from MANGDECHU 1,24 (4, 400kV 1)c. BINAGURI EP 6*1700HW) RATI 182 (8, 220kV 4, 84 182 (8, 220kV 4,	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75	0.3 0.0 19.5 0.0 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67 0	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8 -58	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.3 -171.2 -ve)/Export(-ve) Energy Exchange (MII) -0.68 -1.14 -2.50 -0.18 -0.90 -1.39
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C .764 0 -680 .16.32		220 kV 220 kV State	KOLHAPUR-KUDGI KOLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER NER NER	2 2 2 1 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 TORNAMENT EX 1	0. 1271 0. 0. 1. 1. 0. 0. 1. 1. CHANGES Name 1. LPURDUAR 1,2&3 1c. (from MANGDECHU 1,24 (4, 400kV 1)c. BINAGURI EP 6*1700HW) RATI 182 (8, 220kV 4, 84 182 (8, 220kV 4,	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75	0.3 0.0 19.5 0.0 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67 0	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8 -58	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.0 -1.71.2 -ve)/Export(-ve) Energy Exchange (MII) -0.68 -1.14 -2.50 -0.18 -0.00 -1.39 -1.82
BANGLADESH (Isolated from Indian Grid) 400kV GUDDA_ITS-RAHANPUK (B'DESH) DIC -764 0 -680 -16.32		220 kV 220 kV State	KOLHAPUR-KUDGI	2 2 2 1 1 1 1 TERNATIONAL EX. Line 400kV MANGBEHRIA 400kV MANGBEHRIA 400kV MANGBEHRIA 400kV MANGBERIA 400kV MARGARA 400kV MAR	0 1271 0 0 1 1 1 CHANGES Name LIPURDUAR 1,2&3 1.e. (From MANGDECHU 1,2,4 (& 400kV) 1.e. BINAGURI P6 + 170MV KA 1&2 (& 220kV ACATI SIA AR-TANAKPUR(NHPC) IBHAR) IZAFFARPUR 1&2 IZAFFARPUR 1&2	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75 -96	0.3 0.0 19.5 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91 -67 0 0 -50	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8 -58 -76	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.0 -2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68 -1.14 -2.50 -0.18 -0.00 -1.39 -1.82 -7.68
BANGLADESH (Isolated from Indian Grid) 400kV GUDDA_ITS-RAHANPUK (B'DESH) DIC -764 0 -680 -16.32		220 kV 220 kV State	KOLHAPUR-KUDGI	2 2 2 1 1 1 1 TERNATIONAL EX. Line 400kV MANGBEHRIA 400kV MANGBEHRIA 400kV MANGBEHRIA 400kV MANGBERIA 400kV MARGARA 400kV MAR	0 1271 0 0 1 1 1 CHANGES Name LIPURDUAR 1,2&3 1.e. (From MANGDECHU 1,2,4 (& 400kV) 1.e. BINAGURI P6 + 170MV KA 1&2 (& 220kV ACATI SIA AR-TANAKPUR(NHPC) IBHAR) IZAFFARPUR 1&2 IZAFFARPUR 1&2	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75 -96	0.3 0.0 19.5 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91 -67 0 0 -50	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8 -58 -76	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.0 -2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68 -1.14 -2.50 -0.18 -0.00 -1.39 -1.82 -7.68
		220 kV 220 kV State State BHUTAN	ROLHAPUR-KUDGI	2 2 2 1 1 TERNATIONAL EXC Line BORY MANGDETHIU- ALIPPITRUAR RECEIPT MALENAE - BINAGURI MALENAE - BINAGURI MALENAE - BINAGURI MALENAE - BIRPARAI 132kV MCHAHAP 4°S 132kV GELEPHU-SALAI 132kV MOTANGA-RANG 132kV MOTANGA-RANG 132kV MOTANGA-RANG 140kV DHALKEBAR-MU BHERAMARA B/B HVD	0 1 1271 0 0 1 1271 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75 -96 -358	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67 0 0 -50 -242	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import Avg (MW) -28 89 -104 -8 -58 -76 -320	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -171.2 -ve)/Export(-ve) -ergy Exchange (MI) -0.68 -1.14 -2.50 -0.18 -0.00 -1.39 -1.82 -7.68 -18.51
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -106 0 -91 -2.19		220 kV 220 kV State State BHUTAN	KOLHAPUR-KUDGI	2 2 2 1 1 TERNATIONAL EXC Line BORY MANGDETHIU- ALIPPITRUAR RECEIPT MALENAE - BINAGURI MALENAE - BINAGURI MALENAE - BINAGURI MALENAE - BIRPARAI 132kV MCHAHAP 4°S 132kV GELEPHU-SALAI 132kV MOTANGA-RANG 132kV MOTANGA-RANG 132kV MOTANGA-RANG 140kV DHALKEBAR-MU BHERAMARA B/B HVD	0 1 1271 0 0 1 1271 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75 -96 -358	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67 0 0 -50 -242	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import Avg (MW) -28 89 -104 -8 -58 -76 -320	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -171.2 -ve)/Export(-ve) -ergy Exchange (MI) -0.68 -1.14 -2.50 -0.18 -0.00 -1.39 -1.82 -7.68 -18.51
	1	220 kV 220 kV State State BHUTAN	KOLHAPUR-KUDGI	2 2 2 1 1 1 1 TERNATIONAL EX Line GORV MANGDETHIU- ALIPURDIAR RECEIPI 400kV MANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV GODDA_TPS-RAI 400kV GODDA_TPS-RAI	CHANGES Name LT271 0 1 1 CHANGES Name LT287 LT287	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75 -96 -358	0.3 0.0 19.5 0.0 0.0 0.0 2.3 22.1 Min (MW) 37 -91 -67 0 0 -50 -242	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8 0 -58 -76 -320	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -2.3 -171.2 -ve)/Export(-ve) -0.68 -0.68 -0.18 -0.00 -1.39 -1.82 -7.68 -18.51
	1	220 kV 220 kV State State BHUTAN	ROLHAPUR-KUDGI ROLHAPUR-KUIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER NER NER NER NER ER LER L	2 2 2 1 1 1 1 TERNATIONAL EX Line GORV MANGDETHIU- ALIPURDIAR RECEIPI 400kV MANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV ANGDETHIU- 400kV GODDA_TPS-RAI 400kV GODDA_TPS-RAI	CHANGES Name LT271 0 1 1 CHANGES Name LT287 LT287	1987 2974 0 0 0 125 WR-SR Max (MW) -152 169 -137 -14 0 -75 -96 -358 -918	0.3 0.0 19.5 0.0 0.0 0.0 0.0 2.3 2.2.1 Min (MW) 37 -91 -67 0 0 -50 -242	95.9 21.3 52.1 0.0 0.0 0.0 0.0 193.3 Import(Avg (MW) -28 89 -104 -8 0 -58 -76 -320	-95.9 -21.1 -52.1 -95.9 -0.0 -0.0 -0.0 -2.3 -171.2 +ve)/Export(-ve) Energy Exchange (MII) -0.68 -1.14 -2.50 -0.18 -0.00 -1.39 -1.82 -7.68 -18.51 -16.32