

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 04th Apr 2021

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 03.04.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-अप्रैल-2021 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 03rd April 2021, 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:

A. Power Supply	Position at All India and Regional level						
		NR	WR	SR	ER	NER	TOTAL
Demand Met duri	ng Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	48100	55306	48918	23446	2662	178175
Peak Shortage (M	W)	793	0	0	0	52	845
Energy Met (MU)		940	1350	1255	496	46	4087
Hydro Gen (MU)		103	65	79	37	8	292
Wind Gen (MU)		14	46	98		-	157
Solar Gen (MU)*		52.61	41.03	113.22	5.42	0.21	212
Energy Shortage (MU)	8.32	0.00	0.00	0.00	0.04	8.36
Maximum Deman	d Met During the Day (MW) (From NLDC SCADA)	48100	59325	57990	23719	2864	178561
Time Of Maximum	n Demand Met (From NLDC SCADA)	20:00	15:56	12:23	19:44	18:48	19:30
B. Frequency Pro	ofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.044	0.00	1.79	7.66	9.45	79.64	10.90

Ali india	0.044	0.00	1.79	7.00	9.45	79.64	10.90	
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	(MIT)	Schedule	O.T.D.	0.000	Shortage
U		day(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	5791	0	121.0	54.4	-1.0	117	0.88
	Haryana	6079	0	116.8	81.8	1.2	238	1.04
	Rajasthan	9994	0	203.5	27.6	-1.7	188	0.00
	Delhi	3289	0	68.3	53.4	-1.5	38	0.00
NR	UP	17864	0	312.5	123.5	-2.6	459	0.00
	Uttarakhand	1850	0	36.3	24.1	0.3	153	0.00
	HP	1488	0	28.7	20.6	1.0	238	0.00
	J&K(UT) & Ladakh(UT)	2755	350	49.7	39.3	1.2	731	6.40
	Chandigarh	168	0	3,3	3.3	0.0	41	0.00
	Chhattisgarh	4667	0	113.5	52.8	0.8	249	0.00
	Gujarat	18484	0	396.3	103.0	-0.5	459	0.00
	MP	10891	0	228.6	106.1	-1.3	344	0.00
WR	Maharashtra	25491	0	554.5	165.3	0.7	993	0.00
WK	Goa	534	0	11.4	11.3	-0.5	69	0.00
	DD	335	0	7.5	7.2	0.3	39	0.00
	DNH	837	0	19.5	18.9	0.6	77	0.00
	AMNSIL	812	0	18.4	1.2	0.3	346	0.00
	Andhra Pradesh	11472	0	231.5	117.9	0.6	922	0.00
	Telangana	13531	0	286.1	149.9	0.6	474	0.00
SR	Karnataka	13975	0	277.5	89.2	0.7	539	0.00
SK	Karnataka Kerala	3937	0	83.1	60.5	-0.1	213	0.00
	Tamil Nadu	16310	0	367.8	201.0	-3.8	503	0.00
	Puducherry	425	0	9.1	9.4	-0.3	77	0.00
	Bihar	5416	0	99.1	88.2	0.2	463	0.00
	DVC	3320	0	72.1	-50.4	-0.7	185	0.00
	Jharkhand	1476	0	27.3	22.1	-1.9	132	0.00
ER	Odisha	5128	0	104.9	42.9	0.7	372	0.00
	West Bengal	9070	0	191.8	44.7	0.7	346	0.00
	Sikkim	68	0	1.0	1.4	-0.4	23	0.00
	Arunachal Pradesh	114	3	2.1	2.0	-0.1	28	0.01
	Assam	1625	44	28.2	23.5	0.4	103	0.00
	Manipur	180	4	2.4	2.4	-0.1	20	0.01
NER	Meghalaya	335	0	6.0	2.1	0.0	35	0.00
	Mizoram	103	3	1.6	1.6	-0.1	18	0.01
	Nagaland	127	2	2.0	1.8	0.2	21	0.01
	Tripura	282	3	3.9	3.8	-0.5	13	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)			
	Bhutan	Nepal	Bangladesh
Actual (MU)	3.7	-13.8	-21.7
Day Peak (MW)	210.0	701.5	1022.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.4	-324.8	228.5	-45.5	3.4	0.0
Actual(MU)	119.4	-313.3	223.1	-39.2	5.2	-4.7
O/D/U/D(MU)	-19.0	11.5	-5.3	6.3	1.8	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5199	14123	6832	3053	1222	30428	45
State Sector	15737	11726	6316	3953	11	37742	55
Total	20936	25848	13148	7006	1233	68170	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	564	1444	625	528	15	3177	76
Lignite	23	8	41	0	0	72	2
Hydro	103	65	79	37	8	292	7
Nuclear	27	21	42	0	0	89	2
Gas, Naptha & Diesel	33	51	13	0	23	121	3
RES (Wind, Solar, Biomass & Others)	87	87	246	5	0	425	10
Total	837	1676	1045	571	47	4176	100
Share of RES in total generation (%)	10.34	5.18	23.51	0.95	0.45	10.17	
Share of Non-faccil fuel (Hydro Nuclear and DES) in total generation(%)	25 97	10.20	25.05	7.44	19 26	10.21	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.075
Based on State Max Demands	1.110

Dased on State Wast Definants

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: 04-Apr-2021 |
| Export (MU) | NET (MU)

								Import=(+ve) /Export Date of Reporting:	04-Apr-2021
BIRDING AND STATE		Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)		NET (MU)
1 DITC: INTERCEMENT 2 8 8 8 80 80 80 80 8							*****	1	
1	1	HVDC	ALIPURDUAR-AGRA	2					
1				-					
1				1					
1 100		765 kV	GAYA-BALIA	1		299			
				1					
1				1 2					
10 100			PATNA-BALIA	4					
10				2			0.0		
10 12-10				2					
14 1234				1					
The December The December December		132 kV	SONE NAGAR-RIHAND	1					
13 12 12 13 14 15 16 16 16 16 16 16 16				1					
The The				1					
1									
1	Impor			•	•			•	
1	_								
S									
S									
Second Color	_								
Total Section Comparison Comparison									
ENDITION									
	7	220 KV	BUDHIPADAR-KORBA	2	158				
INDECT SETYPORE CAZEWANA REPS 2 0 448 0.0 8.7 8.87 4.81 1.7	Impor	rt/Export of ER (V	Vith SR)			ER-WK	34.1	J.4	70./
1 PUPC TALCHER ROLAN BROLE 2 0 2471 0.0 48-2 482 482 30 30 30 30 30 30 30 3	1	HVDC	JEYPORE-GAZUWAKA B/B			418	0.0		-8.7
Bank			TALCHER-KOLAR BIPOLE						
S 204 BALIMELATPER SILERE 1				2					
INSPIRED 1.15.0		220 kV	BALIMELA-UPPER-SILERRU	1	1	0			
ImportSuper of RE (With PER) 1				-	· ·	ER-SR			
2 4904Y ALPIPEDICAS-RONCAICANN 2 370 78 4.1 0.0 4.1				1 2	211	Ω1		0.0	
1 2014 ALPITEDIARSALAKATI 2 59 13 0.5 0.0 0.5									
Impure Server 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0 6.6 6.0				2	59	13		0.0	
HOPE INSWANATH CHARMAL-JAGRA 2 470 0 11.6 0.0 11.6 11.						ER-NER			
Importesper of WR (With NR) II.6				1 1	470	0	11.6	0.0	11.6
Imageneral Composition Imageneral Composit	1	HVDC	BISWANATH CHARIALI-AGRA	<u> </u>	4/0				
2 HVDC VINDINACIDAL RB - 194	Impor								
3	1			2					
4			MUNDRA-MOHINDERGARH	2					
6				2					
7. 765 kV CWALOR-ORAI									
S				2					
10				i					
11 400 kV ZERDA -BHINNAL	9	765 kV	CHITORGARH-BANASKANTHA		1390	0	17.9	0.0	17.9
12 400 KV VINDIYACHAL-RIIIAND 1 991 0 22.77 0.0 22.71 13 400 KV RAPP-SHUGALPUR 2 2.099 259 1.0 1.5 -0.5 14 220 KV BHANPURA-RANPUR 1 41 42 0.2 0.2 0.0 15 220 KV BHANPURA-RANPUR 1 41 42 0.2 0.2 0.0 16 220 KV BHANPURA-RANPUR 1 120 0 0.7 0.0 0.6 16 220 KV BHANPURA-RANPUR 1 120 0 0.7 0.0 0.0 16 220 KV BHANPURA-RANPUR 1 120 0 0.7 0.0 0.0 0.0 17 18 323 KV GWALIGASAMI MADHOPUR 1 8 0 0 0.0 0.0 0.0 19 132 KV GWALIGASAMI MADHOPUR 2 0 0 0.0 0.0 0.0 0.0 19 132 KV RAIGHAT-LAITPUR 2 0 0 0.0 0.0 0.0 0.0 19 132 KV RAIGHAT-LAITPUR 2 0 0 0.0 0.0 0.0 0.0 19 132 KV RAIGHAT-LAITPUR 2 0 0 0.0 0.0 0.0 0.0 19 132 KV RAIGHAT-LAITPUR 2 0 3021 0.0 0.0 0.0 0.0 19 140 KW (WIR SR) 2 0 3021 0.0 0.3 8 -3.									
13 400 KV RAPP-SHUALPUR 2 209 259 1.0 1.5 -0.5 14 2220 KV BHANPURA, RANPUR 1 41 42 0.2 0.2 0.0 15 220 KV BHANPURA, RANPUR 1 0 30 0.6 0.0 0.6 16 2220 KV MEHAGONA, MERATA 1 120 0 0.7 0.0 0.7 17 2220 KV MEHAGONA, MERATA 1 120 0 0.7 0.0 0.7 18 1525 KV MALANPURA, MERATA 1 185 5 1.3 0.0 1.3 19 152 KV MALANPURA, MERATA 1 185 5 1.3 0.0 1.3 19 152 KV MALANPURA, MERATA 1 185 1.					991				
15 220 kV BHASPERA-MORAK				2					
16 220 kV MIALANPIRACIRATYA 1 120 0 0.7 0.0 0.7 17 220 kV MIALANPIRACIRATYA 1 85 5 1.3 0.0 0.1 18 132 kV GWALIORSAWAM MADHOPUR 1 0 0 0 0.0 0.0 0.0 19 132 kV RAGIGRIA-LAITPUR 2 0 0 0 0.0 0.0 0.0 19 132 kV RAGIGRIA-LAITPUR 2 0 0 0.0 0.0 0.0 0.0 10 10 10 10 10 10 10				1					
17 220 kV MALANPIR-AURANYA 1 85 5 1.3 0.0 1.3									
18 132 kV GWALIORSAWAM MADHOPUR 1 0 0 0.0 0.0 0.0 0.0 0.0 19 132 kV RAIGHAFI-ALITPUR 2 0 0 0.0 0.0 0.0 0.0 19 132 kV RAIGHAFI-ALITPUR 2 0 0.0 0.0 0.0 0.0 19 19 19 19 19 19 19									
The protection of WR (With SR) Total No. Total N	18	132 kV	GWALIOR-SAWAI MADHOPUR						
Imagent Imag	19	132 kV	RAJGHAT-LALITPUR	2	0				
1 HYDC BHADRAWATI BB - 0 1026 0.0 20.4 -20.4 2.4 2 HYDC RAIGARH-PIGALUR 2 0 3021 0.0 63.8 -63.8 3 765 kV SOLAPUR-RAICHUR 2 0 1745 0.0 26.8 -26.8 -26.8 4 765 kV SOLAPUR-RAICHUR 2 0 1745 0.0 26.8 -26.8 -26.8 -26.8 4 765 kV WARDHANIZAMBAD 2 0 0 1745 0.0 0 12.1 0.0 12.1 5 400 kV KOLHAPUR-KURGI 2 837 0 12.1 0.0 0.	Impor	rt/Export of WR (With SR)			WK-NK	72.1	181.0	-108.9
3 765 kV SOLAPUR.RAICHUR 2 0 1745 0.0 26.8 -26.8 -26.8 4 765 kV WARDHANIZAMABAD 2 0 3184 0.0 58.7 -5.87. 5.87.					0	1026	0.0	20.4	-20.4
4 765 kV WARDHA-NIZAMARAD 2 0 3184 0.0 58.7 5.87 5.80									
S				2					
Color Colo			KOLHAPUR-KUDGI	2					
S 220 kV XELDEM-AMBEWADI		220 kV	KOLHAPUR-CHIKODI		0	0	0.0	0.0	0.0
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchi (MID)									
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchanges	ð	220 KV	ALLDEM-AMBEWADI	1	. 0				
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exch.				INTED	NATIONAL FYCHA		1.0.7	. 107./	-122.0
A00KV MANGDECHIU-ALIPURDUAR 18-2 Le ALIPURDUAR 18-2 Le ALIPURDUAR 18-2 Le ALIPURDUAR RECEIPT (from MANGDECHIU-E) 4-18-08-00 MANGDECHIU-E) 4-18-08-		State							Energy Exchange
ER			D			M (2.500)	Mr. Com		
MANGDECHU HEP 4*180MW 1400kV TALA-BINAGURI 12.4 (i.* 400kV 108			Region			Max (MW)	Min (MW)	Avg (MW)	
Honor Hono				400kV MANGDECHH	U-ALIPURDUAR 1&2			Avg (MW)	(MII)
RECEIPT (from TALA HEP (6-1)*PMW) 2-200.V CHURHA SHRPARA RE\$ (8-200.V) 2-200.V CHURHA HEP 4*S4MW) 3				400kV MANGDECHH i.e. ALIPURDUAR RE	U-ALIPURDUAR 1&2 CEIPT (from			Avg (MW)	(MII)
BHUTAN ER		-	ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU	U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV	71	0	51	(MU) 1.2
BHUTAN ER MALBASE - BIRPARA 1 (25 0 3 0 .1			ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU	U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV RI) i.e. BINAGURI	71	0	51	(MU) 1.2
NER 132KV-GEYLEGPHU - SALAKATI -9 0 4 0.1 NER 132kV Motanga-Rangia 23 3 -13 -0.3 NR 132KV-TANAKPUR(NH) - 0 0 0 0 -0.7 ER 400KV-MUZAFFARPUR - DHALKEBAR DC -320 -159 -303 -7.3 NEPAL ER 132KV-BIHAR - NEPAL -318 -98 -241 -5.8 ER BHERAMARA HVDC(BANGLADESH) -861 -602 -762 -18.3 BANGLADESH NER 132KV-SURAJMANI NAGAR - 81 0 -72 -1.7 132KV-SURAJMANI NAGAR - 81 0 -72 -1.7 132KV-SURAJMANI NAGAR - 81 0 -72 -1.7 132KV-SURAJMANI NAGAR - 132KV-		,	ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL	U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV RI) i.e. BINAGURI h HEP (6*170MW)	71	0	51	(MU) 1.2
NER			ER ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA- 220kV CHUKHA-BIR MALBASE - BIRPAR	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI hEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA	71	84	51 93	(MU) 1.2 2.2
NER			ER ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA- 220kV CHUKHA-BIR MALBASE - BIRPAR	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI hEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA	71	84	51 93	(MU) 1.2 2.2
NR			ER ER ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL/2 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHUI	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI .HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	71 108 25	0 84 0	51 93 3	(MU) 1.2 2.2 0.1
NR			ER ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL/2 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHUI	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI .HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	71 108 25	0 84 0	51 93 3	(MU) 1.2 2.2 0.1
NR MAHENDRANAGAR(PG) 0 0 0 0 -0.7 ER 400KV-MUZAFFARPUR - DHALKEBAR DC .320 -159 .303 .7.3 NEPAL ER 132KV-BIHAR - NEPAL .318 .98 .241 .5.8 ER BHERAMARA HVDC(BANGLADESH) .861 .602 .762 .18.3 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH) .1 81 0 .72 .1.7			ER ER ER NER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHI HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ 132kV-GEYLEGPHU	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	71 108 25	0 84 0	51 93 3	(MU) 1.2 2.2 0.1 0.1
NR MAHENDRANAGAR(PG) 0 0 0 0 -0.7 ER 400KV-MUZAFFARPUR - DHALKEBAR DC -320 -159 -303 -7.3 NEPAL ER 132KV-BIHAR - NEPAL -318 -98 -241 -5.8 ER BHERAMARA HYDC(BANGLADESH) -861 -602 -762 -18.3 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH) - 81 0 -72 -1.7			ER ER ER NER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHI HEP 4 400kV TALA-BINAGI MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRPAR RECEIPT (from TAL/ 132kV-GEYLEGPHU	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2,4 (& 400kV RI) i.e. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	71 108 25	0 84 0	51 93 3	(MU) 1.2 2.2 0.1 0.1
NEPAL ER 132KV-BIHAR - NEPAL -318 -98 -241 -5.8			ER ER ER NER	400kV MANGDECHH i.e. ALIPURDUAR MANGBECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL- 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV Motanga-Rangi	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV RI) 1,2.4 (& 400kV RI) 1,2.4 (& 400kV PARA 1&2 (& 220kV 4) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI	71 108 25 -9	0 84 0 0	51 93 3 4	(MII) 1.2 2.2 0.1 0.1 -0.3
NEPAL ER 132KV-BIHAR - NEPAL -318 -98 -241 -5.8			ER ER ER NER	400kV MANGDECHH i.e. ALIPURDUAR M MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALJ- 220kV CHUKHA-BIR MALBASE - BIRPAR MALBASE - BIRPAR 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(*)	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 400kV RI 1,2.4 (& 400kV A) i.e. BINAGURI HEP (%-1704IW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI a	71 108 25 -9	0 84 0 0	51 93 3 4	(MII) 1.2 2.2 0.1 0.1 -0.3
ER BHERAMARA HVDC(BANGLADESH) -861 -602 -762 -18.3			ER ER ER NER NER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL- 220kV CHKIHA-BIR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23	0 84 0 0 3	51 93 3 4 -13	(MII) 1.2 2.2 0.1 0.1 -0.3
ER BHERAMARA HVDC(BANGLADESH) -861 -602 -762 -18.3			ER ER ER NER NER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL- 220kV CHKIHA-BIR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23	0 84 0 0 3	51 93 3 4 -13	(MII) 1.2 2.2 0.1 0.1 -0.3
BANGLADESH NER 132KV-SURAJMANI NAGAR - 81 0 -72 -1.7 132KV-SURAJMANI NAGAR - 01 0 72 1.7			ER ER ER NER NER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL- 220kV CHKIHA-BIR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(N MAHENDRANAGAR	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23	0 84 0 0 3	51 93 3 4 -13	(MII) 1.2 2.2 0.1 0.1 -0.3
BANGLADESH NER 132KV-SURAJMANI NAGAR - 81 0 -72 -1.7 132KV-SURAJMANI NAGAR - 91 0 72 1.7		BHUTAN	ER ER ER NER NER NER ER	400kV MANGDECHH i.e. ALIPURDUAR MA MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRPAR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 400KV-MUZAFFARP	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 400kV IRI 1,2.4 (& 400kV A) 1.6. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) 1.6. BIRPARA KHA HEP 4*84MW) - SALAKATI a iH) - PG) UR - DHALKEBAR DC	71 108 25 -9 23 0	0 84 0 0 3 0	3 3 4 -13 0 -303	0.1 0.1 -0.3 -0.7 -7.3
BANGLADESH NER 132KV-SURAJMANI NAGAR - 81 0 -72 -1.7 132KV-SURAJMANI NAGAR - 01 0 72 1.7		BHUTAN	ER ER ER NER NER NER ER	400kV MANGDECHH i.e. ALIPURDUAR MA MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRPAR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 400KV-MUZAFFARP	U-ALIPURDUAR 1&2 CEIPT (from *180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 400kV IRI 1,2.4 (& 400kV A) 1.6. BINAGURI HEP (6*170MW) PARA 1&2 (& 220kV A) 1.6. BIRPARA KHA HEP 4*84MW) - SALAKATI a iH) - PG) UR - DHALKEBAR DC	71 108 25 -9 23 0	0 84 0 0 3 0	3 3 4 -13 0 -303	0.1 0.1 -0.3 -0.7 -7.3
BANGLADESH NER COMILLA(BANGLADESH)-1 81 0 -72 -1.7		BHUTAN	ER ER ER NER NER NER ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALL 220kV CHIKHA-BIR MALBASE - BIRPAR MALBASE - BIRPAR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV-TANAKPURN MAHENDRANAGAR 400kV-MUZAFFARP 132KV-BIHAR - NEP,	U-ALIPURDUAR 1&2 CEIPT (from -180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23 0 -320	0 84 0 0 3 0 -159	3 3 4 -13 0 -303 -241	(MII) 1.2 2.2 0.1 0.1 -0.3 -0.7 -7.3
COMILLA(BANGLADESH)-1 132KV-SURAJMANI NAGAR - 01 0 73 17		BHUTAN	ER ER ER NER NER NER ER	400kV MANGDECHH i.e. ALIPURDUAR RE MANGBECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALL 220kV CHIKHA-BIR MALBASE - BIRPAR MALBASE - BIRPAR MALBASE - BIRPAR 132kV-GEYLEGPHU 132kV-TANAKPURN MAHENDRANAGAR 400kV-MUZAFFARP 132KV-BIHAR - NEP,	U-ALIPURDUAR 1&2 CEIPT (from -180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23 0 -320	0 84 0 0 3 0 -159	3 3 4 -13 0 -303 -241	(MII) 1.2 2.2 0.1 0.1 -0.3 -0.7 -7.3
		BHUTAN	ER ER ER NER NER NER ER ER ER	400kV MANGDECHH Le, ALIPURDUAR MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRAFU MALBASE - BIRAFU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 400KV-MUZAFFARP 132KV-BIHAR - NEP. BHERAMARA HVDC 132KV-SURAJMANI 132KV-SURAJMANI	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23 0 -320 -318	0 84 0 0 3 0 -159 -98	3 4 -13 0 -303 -241 -762	(MII) 1.2 2.2 0.1 0.1 -0.3 -0.7 -7.3 -5.8
	Ba	BHUTAN	ER ER ER NER NER NER ER ER ER	400kV MANGDECHH Le, ALIPURDUAR MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRAFU MALBASE - BIRAFU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 400KV-MUZAFFARP 132KV-BIHAR - NEP. BHERAMARA HVDC 132KV-SURAJMANI 132KV-SURAJMANI	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23 0 -320 -318	0 84 0 0 3 0 -159 -98	3 4 -13 0 -303 -241 -762	(MII) 1.2 2.2 0.1 0.1 -0.3 -0.7 -7.3 -5.8
	B	BHUTAN	ER ER ER NER NER NER ER ER ER ER	400kV MANGDECHH i.e. ALIPURDUAR MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL) 220kV CHUKHA-BIR MALBASE - BIRAFAR 132kV-GEYLEGPHU 132kV Motanga-Rangi 132kV-TANAKPUR(MAHENDRANAGAR 400kV-MUZAFFARP 132kV-BIHAR - NEP. BHERAMARA HVDC 132kV-SURAJMANI COMILLA(BANGLAI	U-ALIPURDUAR 1&2 CEIPT (from =180MW) IRI 1,2.4 (& 400kV IRI 1,2.4 (& 4	71 108 25 -9 23 0 -320 -318 -861	0 84 0 0 3 0 -159 -98 -602	3 3 4 -13 0 -303 -241 -762 -72	(MII) 1.2 2.2 0.1 0.1 -0.3 -0.7 -7.3 -5.8 -18.3