

## 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

То,

दिनांक: 17<sup>th</sup> Apr 2021

- 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 16.04.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<sup>th</sup> April 2021, is available at the NLDC website.

धन्यवाद,

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



Report for previous day A. Power Supply Position at All India and Regional level Date of Reporting: 17-Apr-2021 NR WR SR ER NER TOTAL Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs) 53218 44605 2516 Peak Shortage (MW) 350 0 46 300 Energy Met (MU) 1006 1331 1055 505 45 3942 102 38 64 40 9 252 Wind Gen (MU) 22 42.91 26 111.44 0.19 4.60 Solar Gen (MU)\* 38.65 198 Energy Shortage (MU) 6.58 0.00 0.00 0.14 0.04 6.76 Maximum Demand Met During the Day (MW) (From NLDC SCADA) 49919 47706 23535 2740 173567 58753 Time Of Maximum Demand Met (From NLDC SCADA) 00:00 15:08 16:01 19:22 B. Frequency Profile (%) < 49.7 49.7 - 49.8 49.8 - 49.9 49.9 - 50.05 < 49.9 > 50.05 Region All India 0.044 0.00 0.95 C. Power Supply Position in States Max.Demand Energy Met )D(+)/UD(-Drawal Max OD Shortage during Energy Region States Met during the maximum Schedule (MU) (MU) (MW) (MU) (MU) dav(MW) Demand(MW) 123.2 Punjab -1.7 195 51.2 Haryana 6823 122.8 88.2 -3.1 675 0.00 10892 209.2 55.6 -1.3 Rajasthan 546 0.00 Delhi 86.0 71.6 NR 17298 240 340.5 868 UP 118.5 -3.5 0.03 Uttarakhand 1859 24.4 29.1 52.5 20.4 41.3 нР 1500 0 0.3 134 0.00 J&K(UT) & Ladakh(UT) 250 2509 0.4 404 6.40 Chandigarh 204 4.1 -0.1 0.00 44.9 Chhattisgarh 4503 0 109.7 0.9 337 0.00 Gujarat 18866 401.3 131.6 0.00 MP 10878 236.7 132.7 -2.0 425 0.00 wr Maharashtra 23414 527.5 162.4 -3.0 584 0.00 Goa 572 340 0 12.0 11.6 -0.2 33 0.00 DD 0 7.6 7.3 0.3 38 0.00DNH 18.8 18.9 0.00 AMNSIL 848 17.3 3.6 0.1 294 0.00 Andhra Pradesl 196.2 90.1 -0.1 0.00 Telangana 10071 209.8 81.9 -1.4 466 0.00 SR 11710 0 234.9 73.3 -0.4 653 Karnataka 0.00 Kerala Tamil Nadu 14780 554 326.0 206.3 -0.4 0.00 Puducherry 429 9.1 Bihar 5638 0 117.2 104.0 3.1 232 0.14 DVC 3233 70.8 0.1 319 -44.3 0.00Jharkhand 1485 30.5 24.4 137 0.00 ER 97.9 Odisha 4978 34.5 -0.3 381 0.00 West Bengal 188.1 -0.6 Sikkim 46 0.6 1.5 -0.9 0.00 Arunachal Pradesh 2.1 124 2.1 -0.1 31 0.01 Assam 1438 27.5 21.6 130 0.00 Manipur 198 2.4 -0.1 26 0.01 NER Meghalaya Mizoram 107 1.3 1.6 -0.3 14 0.01 0.1 0.01 **Nagaland** 127 2.1 D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve) Bhutan Bangladesh -1033.0 -786.4  $E.\ Import/Export\ by\ Regions\ (in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)$ TOTAL WR SR ER NER NR Schedule(MU) Actual(MU) O/D/U/D(MU) -69.1 -62.5 200.2 -293.0 151.0 10.8 0.0 F. Generation Outage(MW) NR 5447 SR 8192 % Share Central Sector State Sector 13478 848 1494 14625 12131 4023 36125 Total G. Sourcewise generation (MU) All India 3162 NER % Share Coal Lignite Hydro 41 68 252 Nuclear 107 Gas, Naptha & Diesel RES (Wind, Solar, Biomass & Others) 367 4055 87 843 110 1652 603 918

H. All	India	Demand	Diversity	Factor
Dogod	on Do	gional M	or Domon	de

Share of RES in total generation (%)

Based on Regional Max Demands 1.052
Based on State Max Demands 1.084

Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)

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

 $*Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$ 

10.30

26.10

6.63

10.94

18.10

29.66

0.77

7.38

0.49

23.16

9.06

17.92

## INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 17-Apr-2021

Second Process   December   Dec								Date of Reporting:	
		Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MII)	Export (MII)	NET (MII)
PROPERTY   PROPERTY		_		110. of Circuit	Max Import (MW)	Max Export (MW)	Import (MC)	Export (MC)	TET (MC)
1						100			0.0
1				-					
1									
1				<u> </u>					
1				1					
1				i					
1									
0									
B									
1				2					
18				2					
10   120   17   17   17   17   17   17   17   1				2					
14   1512   1500   15	13	220 kV	PUSAULI-SAHUPURI	1	47	92	0.0	0.9	-0.9
SE   1524   CARWARRIAN   1   20   0   0.3   0.0   0.1	14			1	0	0	0.0	0.0	
17   1724   RABIMANASCHIMMATI	15			1	20	0	0.3		
TRANSPORT   0,4   45.5   45.	16	132 kV	KARMANASA-SAHUPURI	1	0	7	0.0	0.0	0.0
	17	132 kV	KARMANASA-CHANDAULI	1	0	21	0.0	0.0	0.0
1   76.54   MILARSCICPA-DILARAMIAGARII   4   3955   859   28.5   0.0   28.5						ER-NR	0.4	45.9	-45.5
2   76   N. W. RANCHEDHARAMAIGARIN   2   1113   66   13.9   0.0   13.9	Impo	rt/Export of ER (V	With WR)						
1	1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1955	850	28.5	0.0	28.5
1	2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1113	66	13.9	0.0	13.9
1									
S   400   MANCHENPAT   2   260   48   3.0   0.0   3.0									
S   2204 V   ILDHIPADAR RAIGARH   1   0   151   0.0   2.6   -2.6   -2.6									
Total			RANCHI-SIPAT						
Total	_6	220 kV	BUDHIPADAR-RAIGARH	1	0	151	0.0	2.6	-2.6
ER WE   S02   2.77   47.5	7			2	177		2.8		
ImportSport of ER (YUB) SE			•						
I HYDE   PEYPREGAZIWAKA BBR   2   0   370   0.0   7.6   -7.6   -7.6	Impo	rt/Export of ER (V	With SR)						
1				2	0	370	0.0	7.6	-7.6
1									
4   400 EV   TTALTER-ACT   2   389   692   0.7   0.0   0.7									
S   DOC   DATES   DATES   DOC   DO									
ImportExport of ER (With NER)	5	220 kV	BALIMELA-UPPER-SILERRU	1					0.0
ImportExport of ER (WIR) NERS    1 - 400   1 - 7   - 1, 7   - 1, 2   - 400   1 - 7   - 1, 7   - 1, 2   - 2, 2									
2	Impo								
3   20 AV   ALIPERDICAR SALAKATI   2   48   700   0.0   0.3   -	1								
ImportPapert of NER (With NR)									
Import   NER (WIS NR)	3	220 kV	ALIPURDUAR-SALAKATI	2	48			0.3	-0.3
1   HVDC   BISWANTH CHARIALAGRA   2   495   0   8.0   0.0   8.0   1   1   1   1   1   1   1   1   1						ER-NER	0.0	4.3	-4.3
Import/Export of WR (Wish NR)		rt/Export of NER	(With NR)						
Import   New (With NR)	1	HVDC	BISWANATH CHARIALI-AGRA	2	495				
1   HYDC   CHAMPA-KURUKSHITRA   2   0   1524   0.0   61.6   641.6     2	Ļ-	(F) ( 6337D)	TITLE STD.			NER-NR	8.0	0.0	8.0
2   HVPC   VINDHYACHAL RB   -   0   156   0.0   3.6   -3.6   3.6   3.6   3.6   3.6   3.6   4   765 kV   MUNDRA-MONINDERGARH   2   0   1457   0.0   3.6   3.6   3.6   3.6   4   765 kV   GWALIORAGRA   2   0   2671   0.0   41.5					_				
3	_		CHAMPA-KURUKSHETRA	2					
4   765 kV   GWALORAGERA   2   0   2671   0.0   41,5   41,5     5   765 kV   PHAGI-GWALIOR   2   0   0   1818   0.0   27,6   27,6     6   765 kV   JABALPURORAI   2   0   0   909   0.0   29,2   29,2     7   765 kV   JABALPURORAI   1   36   10   14,0   0.0   14,0     9   765 kV   GWALJOROGAI   1   36   10   34,0   0.0   14,0     9   765 kV   GWALJOROGAI   1   326   10   34,0   0.0   14,0     10   400 kV   ZERDA-SANKROJI   1   328   0   5,2   0.0   7,5     11   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     12   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     13   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     14   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     14   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     14   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     14   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     14   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     15   400 kV   ZERDA-SANKROJI   1   4389   0   7,5   0.0   7,5     16   400 kV   ZERDA-SANKROJI   1   1   4389   0   7,5   0.0   7,5     17   220 kV   SIDHAPURAL-RIPURD   1   1   3   3   4   0.0   0   2,6   2,6   2,6     18   220 kV   BHANPURA-RIPURA   1   1   3   3   4   0.0   0   0   0   0   0     16   220 kV   BHANPURA-RIPURA   1   1   108   30   0.0   0.6   0.6   0.6   0.6     16   220 kV   MALANPURA-RIPURA   1   1   108   30   0.0   0.0   0.0   0.0     17   220 kV   MALANPURA-RIPURA   1   0   0   0   0   0.0   0.0   0.0     19   132 kV   GWALJOR-SAWAH MADHOPUR   1   0   0   0   0   0   0   0   0   0								3.6	
S									
6   765 KV   GWALIORORA    2   0   909   0.0   29.2   -29.2   -29.2   7   765 KV   GWALIORORA    1   826   0   14.0   0.0   14.0   0.0   14.0   8   765 KV   GWALIORORA    1   0   1373   0.0   26.9   -26.9   -26.9   -26.9   9   765 KV   CHITORGRAH-BANASKANTHA   2   1289   0   19.5   0.0   19.5   10   400 KV   ZERDA-BAINSKOLI   1   328   0   5.2   0.0   5.2   11   400 KV   ZERDA-BAINSKOLI   1   489   0   7.5   0.0   7.5   11   400 KV   ZERDA-BAINSKOLI   1   489   0   7.5   0.0   7.5   11   400 KV   ZERDA-BAINSKOLI   1   489   0   7.5   0.0   7.5   11   400 KV   ZERDA-BAINSKOLI   1   489   0   7.5   0.0   7.5   11   400 KV   ZERDA-BAINSKOLI   1   489   0   7.5   0.0   7.5   12   12   12   12   12   12   12   1									
7   765 kV   SMATIAO-ROPAI									
8   765 kV   SATNA-OBAI									
9   765 kV   CHITORGARH-BANASKANTHA  2   1289   0   19.5   0.0   19.5     10   400 kV   ZERDA-KANKROLI   1   328   0   5.2   0.0   5.2     11   400 kV   ZERDA-KANKROLI   1   489   0   7.5   0.0   7.5     12   400 kV   ZERDA-BHINMAL   1   489   0   7.5   0.0   7.5     12   400 kV   VINDIPLACHIAL-RIHAND   1   976   0   22.4   0.0   22.4     13   490 kV   RAPP-SHUJALPUR   2   157   315   0.0   2.6   2.6     14   220 kV   BHANYURA-RANPUR   1   3   84   0.0   0.8   0.8     15   220 kV   BHANYURA-RORAK   1   0   3   0   0.1   0.5   0.0     16   220 kV   BHANYURA-RORAK   1   108   0   0   0.0   0.0     17   220 kV   MIRICANERARINA   1   108   0   0   0   0.0     18   132 kV   GWALIOR-SAWAIMADHOPUR   1   0   0   0   0.0   0.0     19   132 kV   RAGIGIAT-LAITPUR   2   0   0   0.0   0.0   0.0     19   132 kV   RAGIGIAT-LAITPUR   2   0   0   0.0   0.0   0.0     10   132 kV   RAGIGIAT-LAITPUR   2   0   0   0.0   0.0   0.0     10   10   10   10   15   15     10   HVDC   BHADRAWATI B'B   - 0   718   0.0   15.3   -15.3     2   HVDC   RAGGARI-PUGALUR   2   2   0   2007   0.0   22.9   -22.9     3   765 kV   WARDHANIMAMAD   2   327   2052   0.0   241   -241     4   765 kV   WARDHANIMAMAD   2   0   0   0   0.0     5   220 kV   WARDHANIMAMAD   2   0   0   0   0   0     6   220 kV   WARDHANIMAMAD   2   0   0   0   0   0     6   220 kV   WARDHANIMAMAD   2   0   0   0   0   0     6   220 kV   WARDHANIMAMAD   1   0   114   2.1   0.0   2.1     8   220 kV   WARDHANIMAMAD   1   0   114   2.1   0.0   2.1     9   149 kR   15 kW   15 kW				1					
10   400 kV   ZERDA-RANKROLI				1					
11   400 kV   ZERDA-BHINMAL	_			4					
12   400 kV   NYDBYACHAL-RIHAND				1					
13   400 kV   RAPP-SHUJALPUR   2   157   315   0.0   2.6   -2.6   -2.6   14   220 kV   BHANPURA-RANPUR   1   3   84   0.0   0.8   -0.8   15   1220 kV   BHANPURA-BORAK   1   0   30   0.1   0.5   -0.4   16   220 kV   MEHICANORAK   1   108   0   0.6   0.0   0.6   0.0   0.6   17   220 kV   MEHICANORAURAHYA   1   108   0   0   0   0.0   0.0   0.0   0.0   1.3   18   132 kV   GWALJORENAMAMADHOPUR   1   0   0   0   0.0   0.0   0.0   0.0   0.0   19   132 kV   GWALJORENAMAMADHOPUR   2   0   0   0   0   0.0									
14   220 kV   BHANPURA-RANPUR   1   3   84   0.0   0.8   -0.8     15   220 kV   BHANPURA-MORAK   1   0   30   0.1   0.5   -0.4     16   220 kV   BHANPURA-MORAK   1   108   0   0.6   0.0   0.0   0.6     17   220 kV   MALANPUR-AURAIVA   1   108   0   0.5   0.0   0.0   0.0     18   132 kV   GWALLOR-SAWAI MADHOPUR   1   0   0   0   0.0   0.0   0.0   0.0     19   132 kV   RALGHAT-LALITUR   2   0   0   0   0.0   0.0   0.0   0.0     19   132 kV   RALGHAT-LALITUR   2   0   0   0   0.0   0.0   0.0   0.0     19   132 kV   RALGHAT-LALITUR   2   0   0   0.0   0.0   0.0   0.0     19   132 kV   RALGHAT-LALITUR   2   0   0   0.0   0.0   0.0   0.0     19   132 kV   RALGHAT-LALITUR   2   0   2007   0.0   22.9   22.29     19   19   19   19   19   19   19				•					
15   220 kV   BHANPURA-MORAK									
16   220 kV   MEHGAON-AURAIYA									
17   220 kV   MALANPUR-AURAIYA									
18				•					
19   132 kV   RAJGHAT-LALITPUR   2   0   0   0.0   0.0   0.0   0.0									
WR-NR   70.6   230.5   -159.9						0			
Import/Export of WR (With SR)   1									
1	Impo	ort/Export of WR (	With SR)						
2	1	HVDC	BHADRAWATI B/B		0	718	0.0	15.3	-15.3
3   765 kV   SOLAPUR-RAICHUR   2   327   2052   0.0   24.1   -24.1     4   765 kV   WARDHA-NIZAMBAD   2   0   2472   0.0   39.5   -39.5     5   400 kV   KOLHAPUR-KUDGI   2   82.0   49   10.1   0.0   10.1     6   220 kV   KOLHAPUR-KUDGI   2   0   0   0   0.0   0.0     7   220 kV   PONDA-AMBEWADI   1   0   0   0   0.0   0.0   0.0     8   220 kV   XELDEM-AMBEWADI   1   0   0   114   2.1   0.0   0.0     9   10.1   2.1   0.0   2.1		HVDC	RAIGARH-PUGALUR				0.0	22.9	
S									
Color									
T   220 kV   PONDA-AMBEWADI				2					
S   220 kV   XELDEM-AMBEWADI   1   0   114   2.1   0.0   2.1	6			2	0				
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MII)	7			1	0				
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MII)	8	220 kV	XELDEM-AMBEWADI	1	0				
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MH)	<u>_</u>					•	12.2	101.8	-89.6
State   Region   State   Sta				INTER	NATIONAL EXCHA	NGES			
State   Region   State   Sta		State	Por!				Min (MIII)	Ava (MIII)	Energy Exchange
ER	$\bot$	State	Kegion .			Max (MW)	MIII (MW)	Avg (MW)	
MANGDECHU HEP 4*180MW)									
HORY TALA-BINAGURI 1,24 (4-90KY   MALBASE - BINAGURI   RECEIPT (from TALA HEP (6-170MW)   120KV CHUKHA-BIRPARA 182 (220KV   MALBASE - BIRPARA) (a. BIRPARA)   14	1					150	0	149	3.6
ER   MALBASE - BINAGURI   1.6 BINAGURI   666   62   68   1.6	1		ER			158	•		
RECEIPT (from TALA HEP (6/170MW)   220kV CHUKHA-BIRPARA 18.2 (220kV   220kV CHUKHA-BIRPARA 16.2 (320kV   220kV   220			ER	MANGDECHU HEP 4	(*180MW)	158			
BHUTAN   ER   MALBASE - BIRPARA   14   0   -34   -0.8				MANGDECHU HEP 4 400kV TALA-BINAGO	URI 1,2,4 (& 400kV				1.
BHUTAN   ER   MALBASE - BIRPARA) i.e. BIRPARA   14   0   -34   -0.8				MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU	URI 1,2,4 (& 400kV URI) i.e. BINAGURI			68	1.6
NER				MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL	URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW)			68	1.6
NER   132KV-GEYLEGPHU - SALAKATI   25   0   -11   -0.3     NER   132kV Motanga-Rangia   16   0   0   0.0     NR   132KV-TANAKPUR(NH) -   -81   0   -70   -1.7     ER   400KV-MUZAFFARPUR - DHALKEBAR   -361   -167   -300   -7.2		BHUTAN	ER	MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR	URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV	666	62		
NER 132kV Motanga-Rangia 16 0 0 0.0  NR 132kV-TANAKPUR(NH) -		BHUTAN	ER	MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR	URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA	666	62		
NR 132KV-TANAKPUR(NH) -		BHUTAN	ER ER	MANGDECHU HEP - 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from TALL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	URI 1,2,4 (& 400kV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	666	62	-34	-0.8
NR 132KV-TANAKPUR(NH) -		BHUTAN	ER ER	MANGDECHU HEP - 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from TALL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	URI 1,2,4 (& 400kV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	666	62	-34	-0.8
NR 132KV-TANAKPUR(NH) -		BHUTAN	ER ER	MANGDECHU HEP - 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from TALL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	URI 1,2,4 (& 400kV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW)	666	62	-34	-0.8
NR MAHENDRANAGAR(PG) -81 0 -70 -1.7  ER 400KV-MUZAFFARPUR - DHALKEBAR DC -361 -167 -300 -7.2		BHUTAN	ER ER NER	MANGDECHU HEP - 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU	URI 1,2,4 (& 400KV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) I- SALAKATI	666 14 25	62 0	-34	-0.8
NR MAHENDRANAGAR(PG) -81 0 -70 -1.7  ER 400KV-MUZAFFARPUR - DHALKEBAR DC -361 -167 -300 -7.2		BHUTAN	ER ER NER	MANGDECHU HEP - 400kV TALA-BINAGI MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU	URI 1,2,4 (& 400KV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) I- SALAKATI	666 14 25	62 0	-34	-0.8
ER 400KV-MUZAFFARPUR - DHALKEBAR DC -361 -167 -300 -7.2		BHUTAN	ER ER NER	MANGDECHU HEP - 400kV TALA-BINAGI MALBASE - BINAGI RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132kV-GEYLEGPHL 132kV Motanga-Rangi	URI 1,2,4 (& 400KV    RI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) l.e. BIRPARA KHA HEP 4*84MW)  - SALAKATI	666 14 25	62 0	-34	-0.8
ER DC -361 -167 -300 -7.2		BHUTAN	ER ER NER	MANGDECHU HEP- 400KV TALA-BINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG HOLHOM - BIRPAR MALBASE - BIRPAR MALBASE - BIRPAR HECEIPT (From CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(i)	(IRI 1,2,4 (& 400KV IRI 1,6,2 (K 400KV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) i.e. BIRPARA KHA HEP 4*84MW) i - SALAKATI	666 14 25 16	62 0 0	-34 -11 0	-0.8 -0.3 -0.0
ER DC -361 -167 -300 -7.2		BHUTAN	ER ER NER	MANGDECHU HEP- 400KV TALA-BINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG HOLHOM - BIRPAR MALBASE - BIRPAR MALBASE - BIRPAR HECEIPT (From CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(i)	(IRI 1,2,4 (& 400KV IRI 1,6,2 (K 400KV IRI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) i.e. BIRPARA KHA HEP 4*84MW) i - SALAKATI	666 14 25 16	62 0 0	-34 -11 0	-0.8 -0.3
		BHUTAN	ER ER NER	MANGDECHU HEP- 400KV TALA-BINAGI MALBASE - BINAGG MALBASE - BINAGG RECEIPT (From TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (From CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(! MAHENDRANAGAR	URI 1,2,4 (& 400KV IRD 1,e, BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) 1.e, BIRPARA KHA HEP 4*84MW) 1- SALAKATI ia	666 14 25 16	62 0 0	-34 -11 0	-0.8 -0.3 -0.0
NEPAL ER 132KV-BIHAR - NEPAL -344 -154 -291 -7.0		BHUTAN	ER ER NER NER NER	MANGDECHU HEP - 400KY TALA-BINAGI MALBASE - BINAGI RECEIPT (from TAL Z20KV CHEKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(! MAHENDRANAGAR 400KV-MUZAFFARP	URI 1,2,4 (& 400KV IRD 1,e, BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) 1.e, BIRPARA KHA HEP 4*84MW) 1- SALAKATI ia	666 14 25 16 -81	62 0 0 0	-34 -11 0 -70	-0.8 -0.3 -0.0
NEFAL ER 152KV-BIHAK - NEFAL -344 -154 -291 -7,0		BHUTAN	ER ER NER NER NER	MANGDECHU HEP - 400KY TALA-BINAGI MALBASE - BINAGI RECEIPT (from TAL Z20KV CHEKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132KV Motanga-Rangi 132KV-TANAKPUR(! MAHENDRANAGAR 400KV-MUZAFFARP	URI 1,2,4 (& 400KV IRD 1,e, BINAGURI A HEP (6*170MW) PARA 1&2 (& 220KV A) 1.e, BIRPARA KHA HEP 4*84MW) 1- SALAKATI ia	666 14 25 16 -81	62 0 0 0	-34 -11 0 -70	-0.8 -0.3 -0.0
			ER ER NER NER NER ER	MANGDECHU HEP - 400KV TALA-BINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGE HARDASE - BIRPAR MALBASE - BIRPAR HALBASE - BIRPAR HALBAS	URI 1,2,4 (& 400KV IRD 1,6, BINAGURI A HEP (6*170MW) PARA 182 (& 220KV A) i.e. BIRPARA KHA HEP 4*84MW) i SALAKATI ia NH) - (PG)	666  14  25  16  -81  -361	62 0 0 0 0	-34 -11 0 -70 -300	-0.8 -0.3 -0.0 -1.7 -7.2
			ER ER NER NER NER ER	MANGDECHU HEP - 400KV TALA-BINAGI MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGG MALBASE - BINAGE HARDASE - BIRPAR MALBASE - BIRPAR HALBASE - BIRPAR HALBAS	URI 1,2,4 (& 400KV IRD 1,6, BINAGURI A HEP (6*170MW) PARA 182 (& 220KV A) i.e. BIRPARA KHA HEP 4*84MW) i SALAKATI ia NH) - (PG)	666  14  25  16  -81  -361	62 0 0 0 0	-34 -11 0 -70 -300	-0.8 -0.3 0.0 -1.7

	ī	•	1	ı	i	i	i
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-867	-738	-814	-19.5	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-74	-1.8	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-74	-1.8	