

## 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, क़त्तुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

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दिनांक: 28<sup>th</sup> Sep 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

Τo,

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 27.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-सितंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 27th September 2020, 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

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	56836	45327	33786	21397	2596	159942
Peak Shortage (MW)	8	0	0	0	133	141
Energy Met (MU)	1234	1037	774	436	48	3529
Hydro Gen (MU)	260	100	131	142	27	660
Wind Gen (MU)	14	53	63	-	-	131
Solar Gen (MU)*	40.63	28.78	84.87	4.47	0.07	159
Energy Shortage (MU)	1.0	0.0	0.0	0.0	3.5	4.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57029	45860	35703	21421	2707	160623
Time Of Maximum Demand Met (From NLDC SCADA)	19:46	19:00	09:23	19:00	18:21	19:24

**B.** Frequency Profile (%) Region All India FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 0.022 0.00 0.00 3.22 3.22 86.22 10.57

C. Power Supply Position in States

	7 7 000000	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)	(MO)	(MU)	(MIU)	(IVI VV )	(MU)
	Punjab	9603	0	219.7	127.4	-1.4	0	0.0
	Haryana	7853	0	170.4	130.2	1.7	238	0.2
	Rajasthan	10792	0	237.5	72.8	-0.3	442	0.0
	Delhi	4832	0	96.6	89.6	-0.5	149	0.0
NR	UP	20334	85	395.5	174.9	-0.1	736	0.8
	Uttarakhand	1681	0	36.6	19.2	0.3	243	0.0
	HP	1272	0	27.2	6.4	2.3	221	0.0
	J&K(UT) & Ladakh(UT)	2431	0	46.5	23.2	1.7	207	0.0
	Chandigarh	223	0	4.4	4.6	-0.2	24	0.0
	Chhattisgarh	3703	0	89.7	26.8	-1.4	203	0.0
	Gujarat	13816	0	317.6	96.8	0.8	488	0.0
	MP	8991	0	201.7	94.8	-1.0	381	0.0
WR	Maharashtra	17240	0	376.2	130.3	-2.0	434	0.0
	Goa	420	0	8.5	7.9	0.0	43	0.0
	DD	297	0	6.8	6.7	0.1	44	0.0
	DNH	757	0	17.8	17.9	-0.1	48	0.0
	AMNSIL	851	0	18.9	3.9	0.2	282	0.0
	Andhra Pradesh	7122	0	147.6	57.4	0.5	621	0.0
	Telangana	6198	0	134.4	32.6	-1.3	322	0.0
SR	Karnataka	7203	0	143.3	52.6	-0.2	638	0.0
	Kerala	3124	0	61.4	31.3	-0.6	209	0.0
	Tamil Nadu	12405	0	279.4	152.5	-1.7	553	0.0
	Puducherry	318	0	8.2	7.3	0.9	126	0.0
	Bihar	4934	0	94.9	91.9	-0.9	226	0.0
	DVC	3075	0	65.7	-38.5	0.3	245	0.0
	Jharkhand	1577	0	28.7	21.2	-1.0	166	0.0
ER	Odisha	4568	0	94.2	21.0	-1.0	318	0.0
	West Bengal	7600	0	151.6	47.8	-1.0	637	0.0
	Sikkim	73	0	1.0	1.2	-0.2	13	0.0
	Arunachal Pradesh	113	1	2.1	2.0	0.1	22	0.0
	Assam	1686	101	30.1	26.6	0.1	216	3.5
	Manipur	190	1	2.5	2.5	0.0	13	0.0
NER	Meghalaya	283	0	5.6	0.3	-0.3	32	0.0
	Mizoram	89	1	1.5	1.1	0.2	8	0.0
	Nagaland	138	1	2.3	2.4	-0.3	7	0.0
	Tripura	252	2	4.0	6.0	-0.3	25	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	50.3	-1.3	-25.8
Day Peak (MW)	2146.0	-85.4	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	319.1	-287.1	90.1	-114.6	-7.5	0.0
Actual(MU)	327.2	-290.4	86.7	-118.8	-7.9	-3.1
O/D/U/D(MU)	8.1	-3.3	-3.4	-4.2	-0.4	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6185	15985	12462	1655	525	36812
State Sector	9789	17879	15837	5877	112	49494
Total	15974	33864	28299	7532	637	86306

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	542	1090	295	438	7	2370
Lignite	25	12	16	0	0	54
Hydro	260	100	131	142	27	660
Nuclear	27	20	69	0	0	116
Gas, Naptha & Diesel	8	40	17	0	27	92
RES (Wind, Solar, Biomass & Others)	67	83	175	4	0	329
Total	929	1345	702	584	61	3622
Share of RES in total generation (%)	7.23	6.14	24.84	0.76	0.11	9.08
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	38.12	15.11	53.27	25.10	44.35	30.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.034

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

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

## INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 28-Sep-2020

								Import=(+ve) /Export Date of Reporting	
		Voltage Level	Line Details	No. of Circuit	Max Import (MW)	May Export (MW)	Import (MII)		
1		Ü		110: of Circuit	wax import (www)	Wax Export (WW)	Import (MC)	Export (MC)	TVET (WIC)
1				1 2	Λ	1000	0.0	24.6	24.6
1				-	v				
\$ 1 SEC.   CATA-BAILANNESS   1				2	· ·				
0				1	92				
To Graph				1	v				
B				1	v				
0				1 2	, , , , , , , , , , , , , , , , , , ,				
10				_	· ·				
11					· · · · · · · · · · · · · · · · · · ·				
10									
10   124	12	400 kV	BIHARSHARIFF-VARANASI	2	29				
12   13   15   15   15   15   15   15   15				1					
10				1					
12   LYLAY   SAMMANAN-CHANDAUL   1   0   0   0   0   0   0   0   0   0				1					
The part   The part				1					
	1/	132 K V	KARWANASA-CHANDAULI	1	U				
1	Impor	t/Export of ER (V	With WR)			LIX-IVIX	V. <b>T</b>	107.5	-107.5
1	1			4	846	0	14.3	0.0	14.3
1   909 AV   BLANGHOUTD-DUTGE	$\frac{-}{2}$								
1									
S   400 AV   KANCH-ISTAT	-								
1   20	-			<b>+</b>					
2   2014   19   0   3.3   0.0   3.3   0.0   3.4   4.5   19   19   10   3.3   0.0   3.3   0.0   3.3   19   15   4.5   19   10   4.5   4.5   19   10   10   10   10   10   10   10	5				365				
BROWLE SETT OF THE WIND SETT	6	220 kV	BUDHIPADAR-RAIGARH	1					
	7	220 kV	BUDHIPADAR-KORBA	2	199	· ·	3.3	0.0	3.3
						ER-WR	46.4	1.4	45.0
2   HYDE   TATCHEROLAR BIPOLE   2   0   1790   0.0   40.2   40.2   40.3									
1   PIDC   BISMANATH CHERALAGRA   2   0   2581   0.0					·				
					v				
S   20   PALIDETA-UPPER-SILERRU   1					-				
Depart of ER (Will NEE)									
	<u> </u>	44U K V	DALIMIELA-UI I ER-SILERKU	1	1	ů	***		***
	Impor	t/Export of ER (	With NER)			LK-DK	<b>U•U</b>	, /J•U	-73.V
2				2	22	367	0.0	2.3	-2.3
TRYNE   10   4.4   4.4   4.4   1.5	2			2					
Impute   I	3	220 kV	ALIPURDUAR-SALAKATI	2	0		0.0	1.4	
I HYDE						ER-NER	0.0	4.4	-4.4
Import				T .				T	
IMPORE   TWE (WIS NR)	1	HVDC	BISWANATH CHARIALI-AGRA	2	0				
H   HYDC   CHAMPA-KURUSHETEA   2   0   1499   0.0   35.3	T	-4/E E W/D /	(XV24L ATD.)			NER-NK	0.0	14.5	-14.5
1	1mpor			1 2	Δ.	1400	0.0	25.2	25.2
3	$\frac{1}{2}$				· · · · · · · · · · · · · · · · · · ·				
4   765 kV   GWALIOR-GERA   2   0   2658   0.0   53.0   53.0   53.0     5   765 kV   PHAGIC-GWALIOR   2   0   1118   0.0   41.0   41.0     5   765 kV   JABALPI ROBEA   2   0   1118   0.0   41.0   41.0     7   765 kV   GWALIOR-GRAU   1   3899   0   2.3   0.0   3.3     9   765 kV   CHITORGARIE-BANASKANTHA   2   0   12.2   0.0   12.2   10.2     10   4000 kV   ZERDA SANKOLL   1   0   207   0.0   2.7   2.7     11   4000 kV   ZERDA SANKOLL   1   0   207   0.0   3.8   3.8     12   4000 kV   ZERDA SANKOLL   1   0   315   0.0   3.8   3.8     13   4000 kV   ZERDA SANKOLL   1   0   315   0.0   3.8   3.8     13   4000 kV   ZERDA SANKOLL   1   0   315   0.0   3.8   3.8     13   4000 kV   ZERDA SANKOLL   1   0   315   0.0   3.8   3.8     14   4000 kV   ZERDA SANKOLL   1   0   315   0.0   3.8   3.8     15   2900 kV   KINDIYAGILLA ERILLAD   1   9799   0   2.2   3   0.0   22.3     15   2900 kV   KINDIYAGILLA ERILLAD   1   9799   0   2.2   3   0.0   22.3     16   2200 kV   SHIDIZAR SANOKAK   1   1   1   1   1   1   1   1   1									
5					· ·				
6									
7		765 kV	JABALPUR-ORAI		0	1018	0.0	41.0	-41.0
9		765 kV	GWALIOR-ORAI	1		0	8.3	0.0	8.3
10				1	v				
11   400 kV   ZERDA-BHINMAL   1				2					
12   400 kV   VINDIFYACHAL-RHAND   1   979   0   22.3   0.0   22.3     31   340 kV   RAPP-SIUJALPUR   2   0   482   0.0   8.9   8.9     41   220 kV   RAPP-SIUJALPUR   1   0   1.28   0.0   2.4   2.4     42   220 kV   BHANPURA-RAPUR   1   0   0.0   2.3   2.3   2.3     43   220 kV   BHANPURA-MORAK   1   11   0   0.0   0.2   2.3   2.2     46   220 kV   BHANPURA-MORAK   1   182   1   0.2   0.2   0.0     47   220 kV   MALANPURA-RAPURA   1   42   38   0.9   0.0   0.0   0.9     48   132 kV   GWALIOR-SAWAI MADHOPUR   1   0   0   0   0   0.0   0.0   0.0     49   132 kV   RAGIFIA-LALTPUR   2   0   0   0   0   0.0   0.0   0.0     40   138   132 kV   RAGIFIA-LALTPUR   2   0   0   0   0   0   0   0   0   0				1					
33   400 kV   RAPP-SHUJALPUR   2   0   482   0.0   8.9   4.89     44   220 kV   BHANPURA-RANPUR   1   0   128   0.0   2.4   -2.4     15   220 kV   BHANPURA-RANPUR   1   11   0   0.0   2.3   -2.3     16   220 kV   MERIGAON-AURAIVA   1   82   1   0.2   0.2   0.0     17   220 kV   MERIGAON-AURAIVA   1   42   38   0.9   0.0   0.0     18   132 kV   GWALIORS-SWAI MADHOPUR   1   0   0   0   0.0   0.0   0.0     19   132 kV   GWALIORS-SWAI MADHOPUR   2   0   0   0   0   0   0   0   0.0     19   132 kV   RAGBAT-LALIPUR   2   0   0   0   0   0   0   0   0     19   132 kV   RAGBAT-LALIPUR   2   0   0   0   0   0   0   0   0   0				1	V				
1				2		ű			
15   220 kV   MIHAPURA-MORAK   1				1	V				
16   220 kV   WEHGAON-AURAIYA				1	· ·				
17   220 kV   MALANPUR-AURAIYA				1					
132 kV   RAIGHAT-LALITPUR   2   0   0   0.0   0.0   0.0   0.0	17			1		38			
WR-NR   34.2   248.2   -214.0			GWALIOR-SAWAI MADHOPUR	1	0	0			
ImportExport of WR (With SR)   1	19	132 kV	RAJGHAT-LALITPUR	2	0	•			
1	T	4/E	With CD			WR-NR	34.2	248.2	-214.0
2	1mpor			1	Λ	922	ΛΛ	10.4	10.4
3	1 1				v				
4   765 kV   WARDHA-NIZAMABAD   2   190   1889   0.0   19.6   -19.6					V				
S									
Color									
7   220 kV   PONDA-AMBEWADI   1   0   0   0.0   0.0   0.0   0.0   0.0	6	220 kV	KOLHAPUR-CHIKODI			0	0.0	0.0	0.0
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MU)		220 kV	PONDA-AMBEWADI	1		0	0.0	0.0	0.0
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MU)	8	220 kV	XELDEM-AMBEWADI	1	0				
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MU)							13.6	42.4	-28.8
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   MU				INTER	NATIONAL EXCHA	NGES			
Horal   Hora		State	Dagion	T inc	Name	May (MW)	Min (MW)	ANG (MIXI)	Energy Exchange
ER		Start	Kegiuli			1 <b>114</b> (1 <b>11 11</b> )	741111 (141 AA )	Avg (IVI VV)	(MU)
MANGDECHU HEP 4*180MW)   400kV TALA BINAGURI 1,24 (& 400kV   1086   1081   1086   26.3				1400kV MANGDECHI					
BHUTAN   ER					The same of the same of the same		Λ	570	13.7
BHUTAN   ER   MALBASE - BINAGURI   1086   1081   1086   26.3	_ <b></b>		ER	1&2 i.e. ALIPURDUA	,	585	U	370	
RECEIPT (from TALA HEP (6*170MW)   220kV CHUKHA-BIRPARA 1&2 (& 220kV   220kV			ER	1&2 i.e. ALIPURDUA MANGDECHU HEP	4*180MW)	585	<u> </u>	370	
BHUTAN   ER				1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG	4*180MW) URI 1,2,4 (& 400kV				
NER   132KV-GEYLEGPHU - SALAKATI   73   45   -51   -1.2     NER   132kV Motanga-Rangia   56   0   -49   -1.2     NR   132kV-TANAKPUR(NH) -				1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL	4*180MW) URI 1,2,4 (& 400kV JRI) i.e. BINAGURI A HEP (6*170MW)				
NER			ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV	1086	1081	1086	26.3
NER		BHUTAN	ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV RA) i.e. BIRPARA	1086	1081	1086	26.3
NER		BHUTAN	ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV RA) i.e. BIRPARA	1086	1081	1086	26.3
NR 132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG) -47 0 -10 -0.2  NEPAL ER 132KV-BIHAR - NEPAL 33 2 4 0.1  ER 220KV-MUZAFFARPUR - DHALKEBAR 71 -2 -50 -12		BHUTAN	ER ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PPARA 1&2 (& 220kV A) i.e. BIRPARA UKHA HEP 4*84MW)	1086 346	1081 328	1086 329	26.3 7.9
NR 132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG) -47 0 -10 -0.2  NEPAL ER 132KV-BIHAR - NEPAL 33 2 4 0.1  ER 220KV-MUZAFFARPUR - DHALKEBAR 71 -2 -50 -12		BHUTAN	ER ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PPARA 1&2 (& 220kV A) i.e. BIRPARA UKHA HEP 4*84MW)	1086 346	1081 328	1086 329	26.3 7.9
NR 132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG) -47 0 -10 -0.2  NEPAL ER 132KV-BIHAR - NEPAL 33 2 4 0.1  ER 220KV-MUZAFFARPUR - DHALKEBAR 71 -2 -50 -12		BHUTAN	ER ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PPARA 1&2 (& 220kV A) i.e. BIRPARA UKHA HEP 4*84MW)	1086 346	1081 328	1086 329	26.3 7.9
NEPAL ER 132KV-BIHAR - NEPAL 33 2 4 0.1  ER 220KV-MUZAFFARPUR - DHALKEBAR 71 -2 -50 -12		BHUTAN	ER ER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW)  J - SALAKATI	1086 346 73	1081 328 45	1086 329 -51	26.3 7.9 -1.2
NEPAL ER 132KV-BIHAR - NEPAL 33 2 4 0.1  ER 220KV-MUZAFFARPUR - DHALKEBAR 71 -2 -50 -12		BHUTAN	ER ER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW)  J - SALAKATI	1086 346 73	1081 328 45	1086 329 -51	26.3 7.9 -1.2
NEPAL ER 132KV-BIHAR - NEPAL 33 2 4 0.1  ER 220KV-MUZAFFARPUR - DHALKEBAR 71 2 -50 -12		BHUTAN	ER ER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) PPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW)  J - SALAKATI	1086 346 73 56	1081 328 45	1086 329 -51 -49	26.3 7.9 -1.2
ER 220KV-MUZAFFARPUR - DHALKEBAR 71 2 50 1.2		BHUTAN	ER ER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132kV Motanga-Rang	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW) U - SALAKATI ia	1086 346 73 56	1081 328 45	1086 329 -51 -49	26.3 7.9 -1.2
ER 220KV-MUZAFFARPUR - DHALKEBAR 71 2 50 1.12		BHUTAN	ER ER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132kV Motanga-Rang	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW) U - SALAKATI ia	1086 346 73 56	1081 328 45	1086 329 -51 -49	26.3 7.9 -1.2
1			ER ER NER NER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132kV Motanga-Rang 132KV-TANAKPURG MAHENDRANAGAR	4*180MW) URI 1,2,4 (& 400kV URI ) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW) U - SALAKATI ia NH) -	1086 346 73 56	1081 328 45 0	1086 329 -51 -49	26.3 7.9 -1.2 -1.2 -0.2
1			ER ER NER NER NER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132kV Motanga-Rang 132KV-TANAKPURG MAHENDRANAGAR	4*180MW) URI 1,2,4 (& 400kV URI ) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW) U - SALAKATI ia NH) -	1086 346 73 56	1081 328 45 0	1086 329 -51 -49	26.3 7.9 -1.2 -1.2 -0.2
			ER ER NER NER NER ER	1&2 i.e. ALIPURDUA MANGDECHU HEP 400kV TALA-BINAG MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from CHU 132KV-GEYLEGPHU 132KV-TANAKPUR() MAHENDRANAGAR 132KV-BIHAR - NEP	4*180MW) URI 1,2,4 (& 400kV URI) i.e. BINAGURI A HEP (6*170MW) RPARA 1&2 (& 220kV RA) i.e. BIRPARA UKHA HEP 4*84MW)  J - SALAKATI  ia  NH) - R(PG)	1086 346 73 56 -47	1081 328 45 0 0	1086 329 -51 -49 -10	26.3 7.9 -1.2 -1.2 -0.2 0.1

	ER	BHERAMARA HVDC(BANGLADESH)	-942	-940	-942	-22.6
BANGLADESH	NFD	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	77	0	-66	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	77	0	-66	-1.6