

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 3rd Mar 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 2. महाप्रबंधक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 General Manager, 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. महाप्रबंधक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009 General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 02.03.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-Mar-2018 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 02^{nd} Mar 2018, 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 3-Mar-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	34911	35955	41786	17448	2184	132284
Peak Shortage (MW)	521	0	83	0	60	663
Energy Met (MU)	805	938	987	356	38	3124
Hydro Gen(MU)	102	12	53	20	6	194
Wind Gen(MU)	11	27	45			83
Solar Gen (MU)*	9.05	17.92	55.87	2.28	0.02	85
Energy Shortage (MU)	9.6	0.0	0.0	0.0	0.5	10.1
Maximum Demand Met during the day (MW) (from NLDC SCADA)	37961	42724	44235	17542	2122	140470

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.025	0.00	0.00	2.00	2.00	82.69	15.31

C. Power Supply Position in States

RegionRegion	States	Max. Demand Met during the day	Shortage during maximum Demand	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU
		(MW)	(MW)		Schedule (MU)	(MU)	(MW)	Snortage (M)
	Punjab	4063	0	91.2	28.8	0.1	248	0.0
	Haryana	5509	0	101.2	56.1	0.3	184	0.0
	Rajasthan	9267	0	181.1	57.9	-1.1	370	0.0
	Delhi	2347	0	46.1	40.0	-1.2	171	0.0
NR	UP	14102	0	301.6	110.5	3.0	590	0.3
	Uttarakhand	1415	0	25.3	16.3	0.3	116	0.0
	HP	990	0	18.2	13.9	-0.2	157	0.0
	J&K	1919	548	38.3	35.9	-1.8	343	9.2
	Chandigarh	141	0	2.5	2.7	-0.2	29	0.0
	Chhattisgarh	2938	0	68.5	14.1	-2.0	251	0.0
	Gujarat	12014	0	241.6	113.5	0.3	372	0.0
	MP	9068	0	185.1	94.6	-1.9	259	0.0
WR	Maharashtra	18576	0	409.3	137.0	2.0	587	0.0
VVIN	Goa	377	0	8.3	7.7	0.0	35	0.0
	DD	275	0	3.8	3.7	0.1	43	0.0
	DNH	693	0	11.3	11.4	-0.1	49	0.0
	Essar steel	502	0	10.2	10.4	-0.2	207	0.0
	Andhra Pradesh	8483	0	170.5	49.3	-1.5	562	0.0
	Telangana	9632	0	203.1	92.1	-1.4	434	0.0
SR	Karnataka	10332	0	223.2	87.0	-1,2	832	0.0
Jii	Kerala	3586	0	73.7	52.3	1.4	294	0.0
	Tamil Nadu	14151	0	309.5	159.2	-0.7	428	0.0
	Pondy	331	0	6.7	7.2	-0.5	25	0.0
	Bihar	3960	0	74.0	66.2	0.7	105	0.0
	DVC	2802	0	59.1	-40.3	0.0	150	0.0
ER	Jharkhand	1077	0	23.3	14.4	-0.9	30	0.0
Liv	Odisha	4038	0	75.7	37.5	1.4	540	0.0
	West Bengal	6368	0	122.6	20.3	1.3	265	0.0
	Sikkim	79	0	1.1	1.6	-0.5	0	0.0
	Arunachal Pradesh	101	4	1.9	1.9	0.0	59	0.0
	Assam	1277	27	20.5	17.3	0.8	146	0.5
	Manipur	162	8	2.4	2.4	0.1	22	0.0
NER	Meghalaya	300	2	5.6	3.6	0.1	57	0.0
	Mizoram	85	52	1.5	1.2	0.2	34	0.0
	Nagaland	137	17	2.1	1.9	0.0	40	0.0
	Tripura	229	3	3.4	2.6	-0.2	26	0.0

$\textbf{D. Transnational Exchanges} \ \ (\textbf{MU}) \textbf{- Import} (+\textbf{ve}) / \textbf{Export} (-\textbf{ve})$

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.6	-6.7	-11.6
Day peak (MW)	173.1	-398.6	-638.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.8	-180.9	120.1	-84.5	4.1	3.5
Actual(MU)	134.5	-184.3	121.0	-75.8	4.7	0.1
O/D/U/D(MU)	-10.2	-3.3	0.9	8.6	0.6	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4997	15396	6052	795	215	27455
State Sector	12495	20982	3970	5205	50	42702
Total	17492	36378	10022	6000	264	70156

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	495	1035	617	430	7	2585
Hydro	102	12	53	20	6	194
Nuclear	28	24	47	0	0	98
Gas, Naptha & Diesel	14	36	20	0	23	93
RES (Wind, Solar, Biomass & Others)	48	45	147	3	0	244
Total	688	1152	884	454	36	3214

			M-KEGI	ONAL EXO	CHANGES	Date of 1	Reporting :	3-Mai
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<u> </u>	Export of 1	ER (With NR)	D/G					
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	0	293 57	0.0	3.6 0.0	-3.6 0.5
3	70011	GAYA-BALIA	S/C	0	314	0.0	4.5	-4.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8
7	1	PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	156 88	0.0	0.0	0.0
8	1	MUZAFFARPUR-GORAKHPUR	D/C	0	413	0.0	5.5	-5.5
9	400 kV	PATNA-BALIA	Q/C	0	814	0.0	18.0	-18.0
10		BIHARSHARIFF-BALIA	D/C	0	214	0.0	3.8	-3.8
11		MOTIHARI-GORAKHPUR	D/C	0	317	0.0	5.9	-5.9
12		BIHARSHARIFF-VARANASI	D/C	0	22	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	140	0.0	2.9	-2.9
14	-	SONE NAGAR-RIHAND	S/C S/C	0	0	0.0	0.0	0.0
15 16	132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.5
17	1	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
	1		5,0		ER-NR	0.9	49.6	-48.6
	Export of 1	ER (With WR)	1		Γ			
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C D/C	0	0	12.9	0.0	12.9
19 20		NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-RAIGARH	O/C	0	538 208	0.0	4.6 1.0	-4.6 -1.0
21	400 kV	RANCHI-SIPAT	D/C	0	90	1.0	0.0	1.0
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	133	0.0	2.1	-2.1
23	220 KV	BUDHIPADAR-KORBA	D/C	0	0	3.8	0.0	3.8
nort/I	Evport of 1	ER (With SR)			ER-WR	17.7	7.7	10.0
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	30.4	-30.4
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	330.7	0.0	15.3	-15.3
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2270.9	0.0	44.5	-44.5
27	400 kV	TALCHER-I/C	D/C	0.0	0.0	8.2	0.8	7.4
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
mort/F	Evport of	ER (With NER)			ER-SR	0.0	90.2	-90.2
ipor u r	Aport of							
29			D/C	0	28	3.1	0.0	3
29 30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	0	28 50	3.1 3.9	0.0	3 4
	400 kV 220 kV	BINAGURI-BONGAIGAON					0.0	
30 31	220 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	50	3.9		4
30 31 aport/I	220 kV Export of I	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	0	50 0 ER-NER	3.9 0.0 7.0	0.5 0.5	4 0 6.5
30 31	220 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	50 0 ER-NER	3.9 0.0 7.0	0.5 0.5	4 0 6.5
30 31 aport/I	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C	0	50 0 ER-NER	3.9 0.0 7.0	0.5 0.5	4 0 6.5
30 31 aport/F 32	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C D/C	0	50 0 ER-NER 0 NER-NR	3.9 0.0 7.0	0.5 0.5 0.0 0.0	4 0 6.5
30 31 aport/I	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C	0 0	50 0 ER-NER	3.9 0.0 7.0	0.5 0.5	4 0 6.5
30 31 31 32 32 port/F 33	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C -	0 0 492	50 0 ER-NER 0 NER-NR	3.9 0.0 7.0 12.8 12.8	0.5 0.5 0.0 0.0	4 0 6.5 12.8 12.8
30 31 31 32 32 33 34 35 36	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA	D/C D/C - D/C D/C D/C D/C D/C D/C	0 0 492 0 250 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0	0.5 0.5 0.0 0.0 54.9 1.7 9.9 46.1	4 0 6.5 12.8 12.8 12.8 0.7 -9.9
30 31 32 32 33 34 35 36 37	220 kV Export of I HVDC Export of V	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C	0 0 0 492 0 250 0 0 477	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0	0.5 0.5 0.0 0.0 54.9 1.7 9.9 46.1 22.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0
30 31 32 32 33 34 35 36 37 38	220 kV Export of I HVDC Export of V	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C	0 0 0 492 0 250 0 0 477 299	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3	0.5 0.5 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3
30 31 31 32 32 33 34 35 36 37 38 39	220 kV Export of I HVDC Export of V	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 0 492 0 250 0 0 477 299 290	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9	0.5 0.5 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3
30 31 32 32 33 34 35 36 37 38 39 40	220 kV Export of I HVDC Export of V HVDC - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C	0 0 0 492 0 250 0 0 477 299 290 955	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0	4 0 6.5 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3
30 31 31 32 32 33 34 35 36 37 38 39	220 kV Export of I HVDC Export of V HVDC - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 0 492 0 250 0 0 477 299 290	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9	0.5 0.5 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3
30 31 31 32 32 33 34 35 36 37 38 39 40 41	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL - MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C D/C	0 0 0 492 0 250 0 0 477 299 290 955 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 0.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3
30 31 32 32 33 34 35 36 37 38 39 40 41 42	220 kV Export of I HVDC Export of V HVDC - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL - MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C	0 0 0 492 0 250 0 0 477 299 290 955 0 80	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 5.3 3.9 20.3 0	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 2	4 0 6.5 12.8 12.8 2-54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C	0 0 0 250 0 477 299 290 955 0 80 49	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 250 0 0 477 299 290 955 0 80 49	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.4 1.7 0.8 0.0	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7 0.8
30 31 32 port/I 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 492 0 250 0 0 477 299 290 955 0 80 49 98 52	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.4 1.7 0.8	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7
30 31 32 port/I 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUIALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 492 0 250 0 0 477 299 290 955 0 80 49 98 52	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.4 1.7 0.8 0.0	0.5 0.5 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7 0.8
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV - 132kV Export of V	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 WR-NR	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.4 1.7 0.8 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7 0.8
30 31 32 **Port/F** 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 **Port/F** 47	220 kV Export of I HVDC Export of V HVDC 220 kV 400 kV 132kV Export of V HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 WR-NR	3.9 0.0 7.0 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 0.0 1.1 0.4 1.7 0.8 0.0 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 54.9 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.1 0.0 0.0 0.1 0.0 0.0	4 0 6.5 12.8 12.8 12.8 2.54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7 0.8 0.0 -100.8
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	220 kV Export of I HVDC Export of V HVDC 765 kV 400 kV 220 kV 132kV Export of V HVDC LINK 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 0 WR-NR	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.8 0.0 0.4 1.7 0.8 0.0 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0 0.0 136.7 24.0 0.0 21.6 36.0	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7 0.8 0.0 -100.8
30 31 32 32 33 34 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV Export of I HVDC Export of V HVDC 220 kV 400 kV 132kV Export of V HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 0 WR-NR 1000 0 1451 2080 70	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.4 1.7 0.8 0.0 35.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.5 0.5 0.0 0.0 0.0 0.0 1.7 9.9 46.1 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0 6.5 12.8 12.8 12.8 -54.9 0.7 -9.9 -46.1 -22.0 5.3 3.9 20.3 -2 1.1 0.3 1.7 0.8 0.0 -100.8 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -24.0 0.0 -25.0 0.0 -25.0 0.0 -26.0 -27.0 0.0 -27.0 -27.0 0.0 -27.0 0.0 -27.0 -2
30 31 32 32 33 34 35 36 37 37 38 39 40 41 42 43 44 45 46 47 48 48 49 50 51 52	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV 132kV Export of V LINK - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 WR-NR 1000 0 1451 2080 70 0	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 5.3 3.9 20.3 0 1.1 0.4 1.7 0.8 0.0 35.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0	4 0 6.5 12.8 1
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	220 kV Export of I HVDC Export of V HVDC 765 kV 400 kV 220 kV 132kV Export of V HVDC LINK 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI FONDA-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0 0 0 0 0 477 0 0 0 0 0 0 0 0 0 0 0 0 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 0 WR-NR 1000 0 1451 2080 70 0 0	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 1.1 0.4 1.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0	4 0 6.5 12.8 12.8 12.8 12.8 12.8 12.8 12.8 10.7 10.9 10.7 10.9 10.3 10.3 10.3 10.7 10.8 10.0 10.0 10.0 10.0 10.0 10.0 10.0
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV 132kV Export of V LINK - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 0 WR-NR 1000 0 1451 2080 70 0 0 0	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 0.0 1.1 0.4 1.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0	4 0 6.5 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV 132kV Export of V LINK - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RICHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0 0 0 0 0 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 0 WR-NR 1000 0 1451 2080 70 0 0 WR-SR	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 1.1 0.4 1.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0	4 0 6.5 12.8 12.8 12.8 12.8 12.8 12.8 12.8 10.7 10.9 10.7 10.9 10.3 10.3 10.3 10.7 10.8 10.0 10.0 10.0 10.0 10.0 10.0 10.0
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	220 kV Export of I HVDC Export of V HVDC - 765 kV - 400 kV 132kV Export of V LINK - 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RICHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 250 0 0 477 299 290 955 0 80 49 98 52 0 0 0 0 0 477 0 0 0 0 0 0 0 0 0 0 0 0 0	50 0 ER-NER 0 NER-NR 1078 150 508 2524 1094 0 87 0 6 0 27 0 0 0 WR-NR 1000 0 1451 2080 70 0 0 WR-SR	3.9 0.0 7.0 12.8 12.8 12.8 0.0 2.4 0.0 0.0 0.0 0.0 0.0 1.1 0.4 1.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0	4 0 6.5 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8