

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: 11th 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 10.03.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10th -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 10th 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 11-Mar-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	40363	45895	43219	19437	2214	151129
Peak Shortage (MW)	2731	90	182	145	43	3191
Energy Met (MU)	902	1093	1022	382	39	3437
Hydro Gen(MU)	106	33	75	29	6	248
Wind Gen(MU)	11	28	45			84
Solar Gen (MU)*	6.95	17.52	50.32	0.85	0.02	76
Energy Shortage (MU)	30.2	0.0	2.0	0.4	0.4	33.0
Maximum Demand Met during the day (MW) (from NLDC SCADA)	43598	49395	45726	19654	2219	155698

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	0.062	0.00	0.57	20.54	21.11	74.91	3.98

C. Power Supply Position in States

RegionRegion	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU
	Punjab	6206	0	133.0	29.1	-2.0	194	0.0
	Haryana	6273	145	128.5	71.6	3.6	335	0.9
	Rajasthan	10209	248	204.1	55.4	4.0	533	1.5
	Delhi	3234	0	61.2	49.2	0.5	254	0.0
NR	UP	12123	2220	269.3	98.7	1.7	684	17.7
	Uttarakhand	1808	0	33.9	25.1	0.2	102	0.0
	HP	1451	7	26.5	20.3	1.8	140	0.1
	J&K	2017	504	42.3	39.3	-2.2	281	10.0
	Chandigarh	168	0	3.0	2.8	0.3	20	0.0
	Chhattisgarh	3649	0	81.2	20.4	-1.5	58	0.0
	Gujarat	14621	0	321.5	166.7	1.6	484	0.0
	MP	9050	0	186.7	93.3	-1.2	303	0.0
\A/P	Maharashtra	21437	0	458.4	139.8	0.9	352	0.0
WR	Goa	478	0	10.0	9.5	0.2	35	0.0
	DD	334	0	7.5	6.8	0.7	75	0.0
	DNH	756	0	17.6	16.9	0.7	65	0.0
	Essar steel	507	0	9.9	10.8	-0.8	201	0.0
	Andhra Pradesh	8617	0	179.6	47.9	-0.9	360	0.4
	Telangana	9942	0	216.2	110.7	0.0	388	0.3
SR	Karnataka	10717	0	234.8	81.5	-1.8	408	0.4
J.K	Kerala	3737	0	77.1	49.2	1.4	250	0.2
	Tamil Nadu	14052	0	307.3	147.9	-0.9	415	0.7
	Pondy	320	0	6.7	7.2	-0.5	133	0.0
	Bihar	4162	0	71.5	67.1	-2.0	285	0.0
	DVC	3441	0	66.7	-51.3	-2.3	240	0.0
ER	Jharkhand	1024	0	21.8	17.1	2.1	145	0.4
LIN	Odisha	4151	0	77.0	28.5	1.3	300	0.0
	West Bengal	7844	0	143.7	16.2	0.6	320	0.0
	Sikkim	94	0	1.7	1.3	0.3	21	0.0
	Arunachal Pradesh	120	1	2.0	1.6	0.4	59	0.0
	Assam	1289	32	22.0	18.7	0.8	146	0.3
	Manipur	168	5	2.4	2.4	0.0	22	0.0
NER	Meghalaya	296	19	5.1	3.1	0.1	57	0.0
	Mizoram	83	2	1.5	1.2	0.3	34	0.0
	Nagaland	124	1	2.1	1.7	0.2	40	0.0
	Tripura	227	2	3.7	2.9	0.1	26	0.0

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

<u> </u>	Bhutan	Nepal	Bangladesh
Actual(MU)	2.4	-8.1	-13.8
Day peak (MW)	159.4	-829.0	-634.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.8	-125.7	104.0	-126.1	3.4	-5.7
Actual(MU)	139.2	-137.3	115.4	-119.5	3.4	1.1
O/D/U/D(MU)	0.4	-11.6	11.4	6.6	0.0	6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5395	15666	6552	480	218	28312
State Sector	12175	20016	3890	3905	50	40036
Total	17570	35682	10442	4385	268	68347

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	579	1082	678	500	11	2850
Hydro	106	33	75	29	6	248
Nuclear	23	24	26	0	0	73
Gas, Naptha & Diesel	25	51	19	0	23	117
RES (Wind, Solar, Biomass & Others)	46	46	142	2	0	236
Total	778	1235	940	531	39	3524

			K-KEGI	ONAL EAV	<u>CHANGES</u>	Date of 1	Reporting :	11-Mar
			_					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)
mport/F		ER (With NR)					(1120)	(20)
1	7651-37	GAYA-VARANASI	D/C	0	444	0.0	6.9	-6.9
3	765kV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	0	211 425	0.0	1.9 6.5	-1.9 -6.5
4		ALIPURDUAR-AGRA	- S/C	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8
6		PUSAULI-VARANASI	S/C	0	148	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	109	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	442	0.0	6.4	-6.4
9	400 kV	PATNA-BALIA	Q/C	0	1304	0.0	17.2	-17.2
10		BIHARSHARIFF-BALIA	D/C	0	338	0.0	5.3	-5.3
11		MOTIHARI-GORAKHPUR	D/C	0	429	0.0	7.6	-7.6
12		BIHARSHARIFF-VARANASI	D/C	0	49	0.0	3.9	-3.9
13	220 kV	PUSAULI-SAHUPURI	S/C	0	158	0.0	3.0	-3.0
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	122 1-37	GARWAH-RIHAND	S/C	0	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	<u>L</u>	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	0.7	63.5	-62.8
mport/E	Export of 1	ER (With WR)			· 	. —		
18		JHARSUGUDA-DHARAMJAIGARH S/C	D/C	0	0	4.6	0.0	4.6
19	765 kV		D/C	0	771	0.0	10.5	-10.5
20	 	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-RAIGARH	Q/C	0	387	0.0	6.2	-6.2
21	400 kV	RANCHI-SIPAT	D/C	0	0	0.0	1.4	-0.2
22	<u> </u>	BUDHIPADAR-RAIGARH	S/C	0	102	0.0	1.1	-1.4
23	220 kV	BUDHIPADAR-KORBA	D/C	0	0	2.3	0.0	2.3
20		верии прик-кокру	D/C		ER-WR	6.9	19.2	-12.3
nport/E	Export of 1	ER (With SR)						
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	31.5	-31.5
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	340.2	0.0	15.6	-15.6
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2275.4	0.0	50.5	-50.5
27	400 kV	TALCHER-I/C	D/C	0.0	0.0	8.5	1.0	7.5
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
20	22011	BI ELIMENT OF I EN BILENTO	5/ 0	0.0		0.0	97.7	
					EK-SK			-97.7
mport/E	Export of	ER (With NER)			ER-SR	0.0	91.1	-97.7
_	1	ER (With NER) BINAGURI-BONGAIGAON	D/C	0				1
29	Export of 400 kV	BINAGURI-BONGAIGAON	D/C D/C	0	83	3.0	0.0	3
29 30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	0	83 105	3.0 3.9	0.0	3 4
29	1	BINAGURI-BONGAIGAON			83	3.0 3.9 0.0	0.0	3 4 -1
29 30 31	400 kV 220 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	83 105 0	3.0 3.9	0.0	3 4
29 30 31 mport/E	400 kV 220 kV Export of 1	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	0	83 105 0 ER-NER	3.0 3.9 0.0 6.9	0.0 0.6 0.6	3 4 -1 6.3
29 30 31	400 kV 220 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	83 105 0 ER-NER	3.0 3.9 0.0 6.9	0.0 0.6 0.6	3 4 -1 6.3
29 30 31 mport/E 32	400 kV 220 kV Export of 1 HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C	0	83 105 0 ER-NER	3.0 3.9 0.0 6.9	0.0 0.6 0.6	3 4 -1 6.3
29 30 31 mport/E 32	400 kV 220 kV Export of 1 HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C D/C	0 0	83 105 0 ER-NER 0 NER-NR	3.0 3.9 0.0 6.9	0.0 0.6 0.6 0.0 0.0	3 4 -1 6.3 11.7 11.7
29 30 31 mport/F 32 mport/F 33	400 kV 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 -	470	83 105 0 ER-NER 0 NER-NR	3.0 3.9 0.0 6.9 11.7 11.7	0.0 0.6 0.6 0.0 0.0 42.7	3 4 -1 6.3 11.7 11.7 -42.7
29 30 31 mport/F 32 mport/F 33 34	400 kV 220 kV Export of 1 HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C D/C D/C	470	83 105 0 ER-NER 0 NER-NR	3.0 3.9 0.0 6.9 11.7 11.7	0.0 0.6 0.6 0.0 0.0 42.7 0.0	3 4 -1 6.3 11.7 11.7 -42.7 0.0
29 30 31 mport/F 32 mport/F 33 34 35	400 kV 220 kV Export of 1 HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG	D/C D/C - D/C D/C D/C D/C D/C	0 0 470	83 105 0 ER-NER 0 NER-NR 1063 0 407	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0	0.0 0.6 0.0 0.0 0.0 42.7 0.0 9.3	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3
29 30 31 mport/F 32 mport/F 33 34 35 36	400 kV 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/	0 0 470	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 42.7 0.0 9.3 47.2	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2
29 30 31 mport/F 32 mport/F 33 34 35 36 37	400 kV 220 kV Export of 1 HVDC 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 PHAGI-GWALIOR	D/C	0 0 470 0 0 0 0 0 483	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 42.7 0.0 9.3 47.2 26.1	3 4 4 -1 6.3 11.7 11.7 11.7 0.0 -9.3 -47.2 -26.1
29 30 31 mport/F 32 mport/F 33 34 35 36 37 38	400 kV 220 kV Export of 1 HVDC 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 PHAGI-GWALIOR ZERDA-KANKROLI	D/C	0 0 0 470 0 0 0 0 0 483 395	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6	0.0 0.6 0.6 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6
29 30 31 31 32 mport/F 32 33 34 35 36 37 38 39	400 kV 220 kV Export of 1 HVDC 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 PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 470 0 0 0 0 483 395 362	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4	0.0 0.6 0.6 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4
29 30 31 31 mport/F 32 mport/F 33 34 35 36 37 38 39 40	400 kV 220 kV Export of 1 HVDC HVDC - 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	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 0 470 0 0 0 0 0 0 0 483 395 362 968	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0 0.0 0.0 6.4 22.6	0.0 0.6 0.6 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6
29 30 31 31 mport/F 32 mport/F 33 34 35 36 37 38 39 40 41	400 kV 220 kV Export of 1 HVDC HVDC - 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	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 0 470 0 0 0 0 483 362 968 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0 0.0 0.0 6.4 22.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 3	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6
29 30 31 31 mport/F 32 mport/F 33 34 35 36 37 38 39 40 41 42	400 kV 220 kV Export of 1 HVDC HVDC - 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	D/C	0 0 0 0 0 0 0 0 483 395 362 968 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 0	3.0 3.9 0.0 6.9 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 6.4 22.6 0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6
29 30 31 31 32 mport/F 33 34 35 36 37 38 39 40 41 42 43	400 kV 220 kV Export of 1 HVDC HVDC - 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	D/C	0 0 0 0 0 0 0 0 483 395 362 968 0 91 43	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2
29 30 31 31 32 32 33 34 35 36 37 37 38 39 40 41 42 43 44	220 kV 220 kV Export of 1 HVDC Export of V HVDC 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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MOTAK MEHGAON-AURAIYA	D/C	0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 16 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4 22.6 0 1.3 0.3 1.7	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3 4 -1 6.3 11.7 11.7 242.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45	220 kV 220 kV Export of 1 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 MALANPUR-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	0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38	83 105 0 ER-NER 0 NER-NR 1063 0 407 22356 1316 0 0 0 16 0 0 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 6.4 22.6 0 1.3 0.3 1.7 0.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	220 kV 220 kV Export of 1 HVDC Export of V HVDC 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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MOTAK MEHGAON-AURAIYA	D/C	0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 323 0 16 0 0 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.7 6.4 22.6 0 1.3 0.3 1.7 0.6 0.0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.0
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46	220 kV 220 kV Export of 1 HVDC T65 kV 400 kV 220 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 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	0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38	83 105 0 ER-NER 0 NER-NR 1063 0 407 22356 1316 0 0 0 16 0 0 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 6.4 22.6 0 1.3 0.3 1.7 0.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7
29 30 31 31 32 32 33 34 35 36 37 37 38 39 40 41 42 43 44 44 45 46	220 kV Export of 1 HVDC T65 kV 400 kV 220 kV 132kV	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 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	0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0
29 30 31 31 mport/F 32 33 34 35 36 37 37 40 41 42 43 44 45 46 47	220 kV 220 kV Export of 1 HVDC T65 kV 400 kV 220 kV 132kV Export of V HVDC	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) 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 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0	3 4 -1 6.3 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -9.3
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	220 kV Export of 1 HVDC T65 kV 400 kV 220 kV 132kV	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-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	D/C	0 0 0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 323 0 16 0 WR-NR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4 22.6 0 1.3 0.3 1.7 0.6 0.0 40.6	0.0 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.1 0.0 0.0 128.2	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -87.6
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of 1 HVDC T65 kV 400 kV 220 kV 132kV Export of 1 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 BARSUR-L.SILERU SOLAPUR-RAICHUR	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 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 0 WR-NR 1000 0 0 1014	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4 22.6 0 1.3 0.3 1.7 0.6 0.0 40.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 128.2	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -87.6
29 30 31 31 mport/F 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 mport/F 47 48	220 kV 220 kV Export of 1 HVDC T65 kV 400 kV 220 kV 132kV Export of V 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 PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	D/C	0 0 0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 323 0 16 0 WR-NR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4 22.6 0 1.3 0.3 1.7 0.6 0.0 40.6	0.0 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.1 0.0 0.0 128.2	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -87.6
29 30 31 31 mport/F 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of 1 HVDC T65 kV 400 kV 220 kV 132kV Export of 1 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 BARSUR-L.SILERU SOLAPUR-RAICHUR	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 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 0 WR-NR 1000 0 0 1014	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4 22.6 0 1.3 0.3 1.7 0.6 0.0 40.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 128.2	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -87.6
29 30 31 31 32 mport/F 33 34 35 36 37 38 39 40 41 42 42 44 45 46 46 47 47 48 49 50	220 kV 220 kV 2xport of 1 HVDC 2xport of 1 HVDC 2xport of V 400 kV 220 kV 132kV 2xport of V 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-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 WR-NR 1000 0 1014 1856	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 40.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 128.2 23.8 0.0 11.7 35.6	3 4 -1 6.3 11.7 11.7 11.7 -42.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -87.6 -23.8 0.0 -11.7 -35.6
29 30 31 31 32 mport/F 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV 220 kV 2xport of 1 HVDC 2xport of 1 HVDC 2xport of V 400 kV 220 kV 132kV 2xport 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-KOTA 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 7.6 6.4 22.6 0 1.3 0.3 1.7 0.6 0.0 40.6	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.0 128.2 23.8 0.0 11.7 35.6 0.0	3 4 -1 6.3 -1.7 -1.7 -1.7 -42.7 -0.0 -9.3 -47.2 -26.1 -7.6 -6.4 -22.6 -3 -1.3 -0.2 -1.7 -0.6 -0.0 -87.6 -23.8 -0.0 -11.7 -35.6 -5.8
29 30 31 31 32 32 33 34 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 46 47 48 49 50 50 51 51 52	220 kV 220 kV Export of 1 HVDC 2xport of 1 HVDC 765 kV 400 kV 220 kV 132kV 2xport of 1 HVDC 132kV 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-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 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR 1000 0 1014 1856 0 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 40.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 128.2 23.8 0.0 11.7 35.6 0.0 0.0	3 4 -1 6.3 -11.7 -11.7 -11.7 -42.7 -0.0 -9.3 -47.2 -26.1 -7.6 -6.4 -22.6 -3 -1.3 -0.2 -1.7 -0.6 -0.0 -87.6 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8 -23.8
29 30 31 31 32 32 33 34 33 34 35 36 40 41 42 43 44 44 45 46 47 48 49 50 50 51 51 52 53	220 kV 220 kV Export of 1 HVDC 2xport of 1 HVDC 765 kV 400 kV 220 kV 132kV 2xport of 1 HVDC 132kV 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-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 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR 1000 0 1014 1856 0 0 0	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 40.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 0.1 0.0 0.0 128.2 23.8 0.0 11.7 35.6 0.0 0.0 0.0	3 4 -1 6.3 11.7 11.7 11.7 0.0 -9.3 -47.2 -26.1 7.6 6.4 22.6 -3 1.3 0.2 1.7 0.6 0.0 -87.6 -23.8 0.0 -11.7 -35.6 5.8 0.0 0.0 2.2
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48 49 50 50 51 51 52 53	220 kV 220 kV Export of 1 HVDC 2xport of 1 HVDC 765 kV 400 kV 220 kV 132kV 2xport of 1 HVDC 132kV 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-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 FONDA-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 0 0 0 0 0 0 483 362 968 0 91 43 86 38 0 0 0 0 0 483 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR 1000 0 1014 1856 0 0 0 WR-SR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 40.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 128.2 23.8 0.0 11.7 35.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 4 -1 6.3 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7 -11.7
29 30 31 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50 51 51 52 53 54	220 kV 220 kV Export of 1 HVDC 2xport of 1 HVDC 765 kV 400 kV 220 kV 132kV 2xport of 1 HVDC 132kV 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-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI TR.	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 0 0 0 0 0 483 395 362 968 0 91 43 86 38 0 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR 1000 0 1014 1856 0 0 0 WR-SR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 40.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 128.2 23.8 0.0 11.7 35.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 4 -1 6.3 -1.7 -1.7 -42.7 -0.0 -9.3 -47.2 -26.1 -7.6 -3 -3 -1.3 -0.2 -1.7 -0.6 -3 -3 -1.3 -2.8 -0.0 -11.7 -35.6 -5.8 -0.0 -0.0 -2.2
29 30 31 31 32 32 33 34 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50 51 51 55 50 51 51 51 51 51 51 51 51 51 51 51 51 51	220 kV 220 kV Export of 1 HVDC 2xport of 1 HVDC 765 kV 400 kV 220 kV 132kV 2xport of 1 HVDC 132kV 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-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 FONDA-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 0 0 0 0 0 0 483 362 968 0 91 43 86 38 0 0 0 0 0 483 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	83 105 0 ER-NER 0 NER-NR 1063 0 407 2356 1316 0 0 0 323 0 16 0 0 WR-NR 1000 0 1014 1856 0 0 0 WR-SR	3.0 3.9 0.0 6.9 11.7 11.7 11.7 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.3 1.7 0.6 0.0 40.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.6 0.6 0.0 0.0 0.0 42.7 0.0 9.3 47.2 26.1 0.0 0.0 0.0 128.2 23.8 0.0 11.7 35.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 4 -1 -1.7 -11.7 -42.7 -0.0 -9.3 -47.2 -26.1 -7.6 -3 -3 -3 -3 -3 -2.2 -26.1 -3 -3 -3 -3 -3 -3 -3 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5