

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: 02nd Apr 2018

To,

- 1. 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 01.04.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-Apr-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 01st Apr 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 2-Apr-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42215	41524	38591	14086	2081	138497
Peak Shortage (MW)	1047	0	0	0	136	1183
Energy Met (MU)	949	1066	956	337	35	3344
Hydro Gen(MU)	105	16	49	16	8	194
Wind Gen(MU)	18	48	26			92
Solar Gen (MU)*	15.18	21.54	51.91	1.21	0.02	90
Energy Shortage (MU)	11.0	0.0	0.0	0.0	1.3	12.4
Maximum Demand Met during the day (MW) (from NLDC SCADA)	40129	46274	42625	16681	2151	142609

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	0.037	0.00	0.01	7.33	7.34	76.11	16.55

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 (M
	Puniab	5350	0	119.3	52.4	-1.0	253	0.0
	Harvana	6140	119	155.9	41.9	2.7	546	0.4
	Rajasthan	8651	0	183.0	46.0	0.4	1054	0.0
NR	Delhi	3885	0	79.0	64.5	0.1	0	0.0
	UP	15210	255	305.4	106.5	2.4	652	0.0
	Uttarakhand	1802	0	34.9	26.7	-0.1	200	0.0
	HP	1306	0	23.8	16.6	0.4	193	0.1
	J&K	4401	1100	44.4	29.8	6.0	270	10.5
	Chandigarh	185	0	3.7	3.5	0.1	4	0.0
	Chhattisgarh	3472	0	74.7	13.8	-2.2	266	0.0
	Gujarat	14165	0	320.3	179.3	0.6	225	0.0
WR	MP	8369	0	174.1	70.7	-1.1	383	0.0
	Maharashtra	20577	0	454.3	146.1	-1.1	422	0.0
	Goa	443	0	9.6	8.6	0.4	45	0.0
	DD	274	0	6.0	5.6	0.4	62	0.0
	DNH	714	0	16.6	16.0	0.6	69	0.0
	Essar steel	520	0	10.7	10.5	0.2	162	0.0
	Andhra Pradesh	8268	0	170.2	48.8	-0.4	420	0.0
	Telangana	9051	0	192.1	90.7	-0.4	426	0.0
SR	Karnataka	9112	0	208.7	80.3	-1.2	500	0.0
3K	Kerala	3030	0	66.9	53.5	1.1	254	0.0
	Tamil Nadu	13289	0	311.2	164.3	1.1	562	0.0
	Pondy	320	0	7.2	7.3	-0.2	64	0.0
	Bihar	4247	0	74.4	69.7	0.9	200	0.0
	DVC	2919	0	60.9	-52.7	-1.3	280	0.0
ER	Jharkhand	1117	0	19.5	13.0	-1.8	100	0.0
LIN	Odisha	3398	0	64.9	31.0	-2.6	50	0.0
	West Bengal	6712	0	115.5	22.2	-5.2	100	0.0
	Sikkim	82	0	1.6	1.4	0.1	30	0.0
	Arunachal Pradesh	100	2	2.1	1.7	0.5	65	0.0
	Assam	1276	56	20.8	17.9	0.8	95	1.1
	Manipur	160	2	2.1	2.3	-0.2	24	0.0
NER	Meghalaya	251	0	4.2	2.7	-0.2	45	0.0
	Mizoram	78	2	1.6	1.2	-0.1	10	0.0
	Nagaland	101	3	1.9	2.0	-0.2	30	0.0
	Tripura	224	5	2.1	2.2	-0.6	50	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.5	-9.4	-14.4
Day peak (MW)	102.4	-396.2	-645.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	155.6	-209.8	125.1	-71.9	1.6	0.5
Actual(MU)	158.7	-206.0	118.0	-65.9	1.1	6.0
O/D/U/D(MU)	3.1	3.9	-7.0	6.0	-0.5	5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5570	12566	6502	2080	270	26988
State Sector	7320	17853	4010	4385	50	33618
Total	12890	30419	10512	6465	319	60606

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	578	1126	616	422	9	2751
Hydro	105	16	50	16	8	195
Nuclear	33	28	47	0	0	107
Gas, Naptha & Diesel	26	55	22	0	21	124
RES (Wind, Solar, Biomass & Others)	62	70	113	2	0	247
Total	803	1295	848	441	38	3424

						Date of I	Reporting :	2-Apr-
								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)
•	Export of	ER (With NR)						
1	765kV	GAYA-VARANASI	D/C	0	453	0.0	6.4	-6.4
3	/USKV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	0	97 524	0.0	9.5	-1.1 -9.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	0	0.0	0.0	0.0
6	_	PUSAULI-VARANASI	S/C	0	15	0.5	0.0	0.5
7		PUSAULI -ALLAHABAD	S/C	0	29	0.7	0.0	0.7
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	0	560 817	0.0	4.7 11.7	-4.7 -11.7
10	400 K	BIHARSHARIFF-BALIA	D/C	0	279	0.0	5.6	-5.6
11		MOTIHARI-GORAKHPUR	D/C	0	290	0.0	4.7	-4.7
12		BIHARSHARIFF-VARANASI	D/C	0	316	0.0	1.6	-1.6
13	220 kV	PUSAULI-SAHUPURI	S/C	0	169	0.0	2.9	-2.9
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	0	0	0.7	0.0	0.7
16	J	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	1	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
port/l	Export of	ER (With WR)			ER-NR	1.9	48.1	-46.3
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	0	0	24.0	0.0	24.0
19	1	NEW RANCHI-DHARAMJAIGARH	D/C	0	222	2.1	0.0	2.1
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	0	9.5 3.2	0.0	9.5 3.2
22	+	RANCHI-SIPAT BUDHIPADAR-RAIGARH	D/C S/C	0	100	0.0	0.0	-0.6
23	220 kV	BUDHIPADAR-KAIGARH BUDHIPADAR-KORBA	D/C	0	0	4.1	0.0	4.1
			2,0		ER-WR	42.9	0.6	42.4
port/l	Export of 765 kV	ER (With SR) ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	28.9	-28.9
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	351.1	0.0	15.9	-15.9
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2660.6	0.0	47.2	-47.2
27	400 kV	TALCHER-I/C	D/C	0.0	793.7	0.0	9.8	-9.8
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
port/l	Export of	ER (With NER)			ER-SR	0.0	92.0	-92.0
•	1	BINAGURI-BONGAIGAON	D/C					
29	400 1-37	DINAGURI-DUNGAIGAON	D/C	0	813	0.0	4.0	-4
29 30	400 kV	ALIPURDUAR-BONGAIGAON	D/C D/C	0	813 663	3.9	4.0	4
	400 kV 220 kV				663	3.9 0.0	1.9	4 -2
30 31	220 kV	ALIPURDUAR-BONGAIGAON	D/C	0	663	3.9		4
30 31	220 kV Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	663 0 ER-NER	3.9 0.0 3.9	1.9 5.8 8.4	-7.4
30 31 port/l 32	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C D/C	0	663 0 ER-NER	3.9 0.0 3.9	1.9 5.8	4 -2 -1.9
30 31 nport/I 32	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C D/C	0	663 0 ER-NER	3.9 0.0 3.9	1.9 5.8 8.4	-7.4
30 31 aport/l 32 aport/l 33 34	220 kV Export of HVDC	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	0 0 488 0 0	663 0 ER-NER 500 NER-NR	3.9 0.0 3.9 1.0 1.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8	-7.4 -7.4 -31.3 -3.8
30 31 32 32 33 34 35	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG	D/C D/C D/C D/C D/C D/C	0 0 488 0 0 0	663 0 ER-NER 500 NER-NR 1143 250 307	3.9 0.0 3.9 1.0 1.0 0.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4	-7.4 -7.4 -7.4 -31.3 -3.8 -7.4
30 31 port/I 32 port/I 33 34 35 36	220 kV Export of HVDC Export of	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 0 488 0 0 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8
30 31 32 port/I 33 34 35 36 37	220 kV Export of HVDC Export of HVDC	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 D/C D/C D/C D/C D/C D/C D/C	0 0 488 0 0 0 0 0 480	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3	-7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3
30 31 32 port/I 33 34 35 36 37 38	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C	0 0 488 0 0 0 0 0 0 480 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8
30 31 32 port/I 33 34 35 36 37	220 kV Export of HVDC Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI	D/C	0 0 488 0 0 0 0 0 480	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5
30 31 32 port/J 33 34 35 36 37 38 39	220 kV Export of HVDC Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C	0 0 0 488 0 0 0 0 480 0 718	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8
30 31 32 32 33 34 35 36 37 38 39 40	220 kV Export of HVDC Export of HVDC T65 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	0 0 0 488 0 0 0 0 0 480 0 718	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 0 0 1676	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 36.1	-7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1
30 31 32 port/I 33 34 35 36 37 38 39 40 41	220 kV Export of HVDC Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI	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 0 488 0 0 0 0 480 0 718 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 36.1 0.0	-7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3
30 31 32 port/I 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of HVDC Export of HVDC T65 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIAND 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 S/C S/C S/C S/C D/C	0 0 0 488 0 0 0 0 480 0 718 0 442 410 961	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 0 289	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 36.1 0.0 0.0 0.0 2	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 -36.1 -6.8 20.4 -2
30 31 32 pport/I 33 34 35 36 37 38 39 40 41 42 43 44 44 45	220 kV Export of HVDC Export of HVDC T65 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 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 0 480 0 718 0 442 410 961 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 36.1 0.0 0.0 0.0 0.0	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 6.8 20.4 -2
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46	220 kV Export of HVDC Export of HVDC T65 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	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 0 480 0 718 0 442 410 961 0 58 22	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 2 0.1 0.4	-7.4 -7.4 -7.4 -7.4 -31.3 -31.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 -6.8 20.4 -2 0.4 -0.3
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	220 kV Export of HVDC Export of HVDC T65 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C	0 0 0 0 0 0 0 0 480 0 718 0 442 410 961 0 0 58 22 73	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 112 39 0	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 6.8 20.4 -2 0.4 -0.3 0.9
30 31 32 port/J 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	220 kV Export of HVDC Export of HVDC 765 kV 400 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 S	0 0 0 488 0 0 0 0 480 0 718 0 442 410 961 0 58 22 73 33	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39 0 0	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1.9 -7.4 -7.4 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 6.8 20.4 -2 0.4 -0.3 0.9 0.4
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	220 kV Export of HVDC Export of HVDC T65 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C	0 0 0 0 0 0 0 0 480 0 718 0 442 410 961 0 0 58 22 73	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 112 39 0	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 -6.8 20.4 -2 0.4 -0.3 0.9
30 31 32 port/I 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 port/I	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C	0 0 0 0 0 0 0 0 480 0 718 0 442 410 961 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 112 39 0 0 WR-NR	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1.9 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 -6.8 20.4 -2 0.4 -0.3 0.9 0.4 -0.0 -108.5
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 port/l	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI 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 0 0 0 0 0 480 0 718 0 442 410 961 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39 0 0 WR-NR	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0 0.1 0.9 0.4 0.0 0.0 51.9	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -7.4 -43.8 -25.3 -9.8 -14.5 -36.1 -8.3 -6.8 -20.4 -2 -0.3 -0.9 -0.4 -0.0 -108.5 -23.1
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	D/C	0 0 0 0 0 0 0 0 0 480 0 718 0 442 410 961 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39 0 0 WR-NR	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 0.0 8.3 6.8 20.4 0 0.1 0.9 0.4 0.0 51.9	1.9 5.8 8.4 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 6.8 20.4 -2 0.4 -0.3 0.9 0.4 0.0 -108.5 -23.1 0.0
30 31 32 32 33 33 34 35 36 37 38 39 40 40 42 43 44 45 46 47 48 49 49	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	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 0 480 0 0 442 410 961 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 0 1676 0 0 289 12 39 0 0 WR-NR	3.9 0.0 3.9 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0 0.4 0.1 0.9 0.4 0.0 51.9	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 0.0 160.3	4 -2 -1.9 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 6.8 20.4 -2 0.4 -0.3 0.9 0.9 0.4 0.0 -108.5
30 31 32 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 50 50 50 51 51 52 53	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	D/C	0 0 0 0 0 0 0 0 480 0 718 0 442 410 961 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39 0 0 WR-NR	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0.1 0.9 0.4 0.1 0.9 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 10.4 0.0 0.0 160.3	4 -2 -1,9 -7,4 -7,4 -31.3 -3.8 -7,4 -43.8 -25.3 -9.8 14.5 -36.1 8.3 -6.8 20.4 -0.3 -0.9 0.4 -0.3 -0.9 -0.4 -0.0 -108.5
30 31 32 port/I 33 34 35 36 37 38 39 40 41 42 43 44 45 50 50 50 51 51 52	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHABRAWATI 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 0 0 0 0 0 0 480 0 0 718 0 442 410 961 0 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39 0 WR-NR	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0 0.4 0.1 0.9 0.4 0.0 51.9	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.1 0.4 0.0 0.0 160.3	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4 -43.8 -25.3 -9.8 -25.3 -9.8 -20.4 -0.3 -0.9 -0.4 -0.0 -108.5 -23.1 -23.1 -33.9 -4.1
30 31 32 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 50 50 50 51 51 52 53	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	D/C	0 0 0 0 0 0 0 0 480 0 718 0 442 410 961 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 12 39 0 0 WR-NR	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0.1 0.9 0.4 0.1 0.9 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 10.4 0.0 0.0 160.3	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -9.8 -14.5 -36.1 8.3 -6.8 -20.4 -0.3 -0.9 -108.5 -2 -2 -1.0 -0.1 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49 50 51 51 52 53 53 54 55	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RICAMBAD KOLHAPUR-AURABAD KOLHAPUR-AURABAD KOLHAPUR-RICAMBAD KOLHAPUR-RICAMBAD KOLHAPUR-RICAMBAD KOLHAPUR-RICAMBAD	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 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 0 480 0 0 442 410 961 0 0 58 22 73 33 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 112 39 0 0 WR-NR 1000 0 1161 1000 0 0 1161 2250 0 0	3.9 0.0 3.9 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 0.0 8.3 6.8 20.4 0 0.1 0.9 0.4 0.0 51.9	1.9 5.8 8.4 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 10.1 0.4 0.0 0.0 160.3 23.1 0.0 12.3 33.9 0.0 0.0	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4 -43.8 -25.3 -9.8 -14.5 -36.1 -8.3 -6.8 -20.4 -2 -0.4 -0.0 -108.5 -23.1 -0.0 -12.3 -33.9 -4.1 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0
30 31 32 port/I 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 port/I 50 51 52 53 54 55 55 56 56 56 56 56 56 56 56	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR IABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-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-KUDGI KOLHAPUR-CHIKODI PONDA-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 D/C D/C D/C D/C D/C D/C D/C D/C D/C D	0 0 0 0 0 0 0 0 0 480 0 0 442 410 961 0 0 58 22 73 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 0 1676 0 0 289 12 39 0 0 WR-NR 1000 0 UR-NR	3.9 0.0 3.9 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0 0.4 0.1 0.9 0.4 0.0 51.9	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 0.0 0.0 0.0 0.0 160.3 23.1 0.0 12.3 33.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4 -31.3 -3.8 -7.4 -43.8 -25.3 -6.8 -20.4 -2 -2 -0.4 -0.3 -0.9 -108.5 -23.1 -0.0 -12.3 -33.9 -33.9 -33.9 -33.9 -33.9 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0
30 31 32 port/I 32 33 34 35 36 37 38 40 41 42 45 46 47 48 49 port/I 50 51 55 55 55 55 55	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 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 0 480 0 0 442 410 961 0 0 58 22 73 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 112 39 0 0 WR-NR 1000 0 UR-NR	3.9 0.0 3.9 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0 0.4 0.1 0.9 0.4 0.0 51.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 36.1 0.0 0.0 0.0 100.3 22 0.1 0.4 0.0 0.0 160.3 33.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1.9 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4 -7.4
30 31 32 port/I 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 port/I 50 51 52 53 54 55 55 56 56 56 56 56 56 56 56	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-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 0 480 0 0 442 410 961 0 58 22 73 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	663 0 ER-NER 500 NER-NR 1143 250 307 2568 1420 899 0 1676 0 0 289 112 39 0 0 WR-NR 1000 0 UR-NR	3.9 0.0 3.9 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 8.3 6.8 20.4 0 0.4 0.1 0.9 0.4 0.0 51.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.9 5.8 8.4 8.4 8.4 31.3 3.8 7.4 43.8 25.3 9.8 0.0 36.1 0.0 0.0 0.0 100.3 22 0.1 0.4 0.0 0.0 160.3 33.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 -2 -1,9 -7,4 -7,4 -31,3 -3,8 -7,4 -43,8 -25,3 -9,8 14,5 -36,1 8,3 6,8 20,4 -2 0,4 -0,3 0,9 0,4 0,0 -108,5 -23,1 0,0 -12,3 -33,9 4,1 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0