

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: 21st 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 20.04.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अप्रैल-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 20th 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 21-Apr-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42584	46586	42932	20684	2295	155081
Peak Shortage (MW)	554	44	150	0	156	904
Energy Met (MU)	927	1164	1008	441	37	3576
Hydro Gen(MU)	113	20	61	48	7	248
Wind Gen(MU)	35	82	53			169
Solar Gen (MU)*	15.04	21.76	56.33	0.85	0.02	94
Energy Shortage (MU)	10.9	0.1	0.0	0.0	1.4	12.4
Maximum Demand Met during the day (MW) (from NLDC SCADA)	45476	49697	45110	20993	2307	157638

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	0.036	0.00	0.81	5.63	6.44	80.60	12.96

C. Power Supply Posi	tion 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	5185	0	105.4	43.6	-0.7	211	0.0
	Haryana	6367	112	114.9	52.9	1.0	424	1.9
	Rajasthan	8773	0	183.7	48.1	0.7	473	0.1
	Delhi	4630	0	94.9	73.4	-0.5	178	0.0
NR	UP	16211	0	326.4	113.2	2.8	557	0.0
	Uttarakhand	1766	0	36.3	21.4	0.2	230	0.0
	HP	1293	0	22.8	16.3	0.1	103	0.0
	J&K	1884	471	37.9	29.5	-4.4	82	8.9
	Chandigarh	210	0	4.2	4.1	0.1	31	0.0
	Chhattisgarh	3759	0	88.4	31.5	-1.9	123	0.0
	Gujarat	15488	0	351.6	171.0	4.5	259	0.0
WR	MP	8718	0	188.0	87.4	-2.3	350	0.0
	Maharashtra	22476	0	496.6	136.4	-4.0	733	0.1
	Goa	533	0	12.0	11.4	-0.1	29	0.0
	DD	323	0	7.3	6.5	0.8	43	0.0
	DNH	738	0	17.1	16.4	0.7	94	0.0
	Essar steel	96	0	2.6	2.3	0.3	151	0.0
	Andhra Pradesh	8777	0	183.0	58.9	2.4	476	0.0
	Telangana	8125	0	180.5	71.7	-2.2	242	0.0
SR	Karnataka	9592	0	208.3	64.7	-0.5	456	0.0
JN	Kerala	3747	0	77.8	51.5	1.4	182	0.0
	Tamil Nadu	15261	0	350.5	169.5	2.5	409	0.0
	Pondy	378	0	8.2	8.1	0.0	42	0.0
	Bihar	4686	0	88.1	86.5	-1.2	250	0.0
	DVC	3063	0	72.6	-50.0	-0.5	100	0.0
ER	Jharkhand	1213	0	24.1	16.1	2.0	150	0.0
LIX	Odisha	4211	0	86.8	29.7	1.0	450	0.0
	West Bengal	8491	0	167.9	53.0	2.2	400	0.0
	Sikkim	98	0	1.3	1.6	-0.3	20	0.0
	Arunachal Pradesh	109	7	2.2	1.5	0.7	45	0.0
	Assam	1374	135	21.0	17.1	1.0	75	1.1
	Manipur	162	3	1.9	2.2	-0.3	33	0.0
NER	Meghalaya	309	1	5.3	2.9	0.0	44	0.0
	Mizoram	83	3	1.4	0.9	0.2	32	0.0
	Nagaland	124	3	2.1	1.7	0.2	25	0.0
	Tripura	204	15	3.2	2.8	-0.1	53	0.2

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.4	-10.3	-6.9
Day peak (MW)	328.8	-515.6	-643.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	169.6	-190.8	88.7	-70.7	3.8	0.6
Actual(MU)	169.6	-202.5	92.3	-65.6	4.8	-1.3
O/D/U/D(MU)	0.0	-11.7	3.7	5.1	1.0	-1.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6238	12306	7752	1040	405	27740
State Sector	8890	16013	4810	4745	50	34508
Total	15128	28319	12562	5785	454	62248

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	525	1164	598	479	5	2771
Hydro	113	20	62	48	7	249
Nuclear	24	31	46	0	0	100
Gas, Naptha & Diesel	33	62	21	0	23	139
RES (Wind, Solar, Biomass & Others)	78	104	148	2	0	331
Total	773	1380	875	528	35	3591

						Date of 1	Reporting :	
		,						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)
nport/E	Export of	ER (With NR) GAYA-VARANASI	D/C	0	0	0.0	3.9	-3.9
2	765kV	SASARAM-FATEHPUR	S/C	104	76	0.3	0.0	0.3
3		GAYA-BALIA	S/C	0	575	0.0	9.1	-9.1
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	n.be	PUSAULI B/B	S/C	4	0	0.0	0.0	0.0
6		PUSAULI-VARANASI	S/C	83	10	0.9	0.0	0.9
7		PUSAULI -ALLAHABAD	S/C	108	4	1.4	0.0	1.4
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	61	468 986	0.0	5.9 17.1	-5.9 -17.1
10	400 K V	BIHARSHARIFF-BALIA	D/C	0	335	0.0	4.8	-17.1
11		MOTIHARI-GORAKHPUR	D/C	0	256	0.0	4.9	-4.9
12		BIHARSHARIFF-VARANASI	D/C	292	241	0.0	1.5	-1.5
13	220 kV	PUSAULI-SAHUPURI	S/C	0	196	0.0	3.9	-3.9
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	36	0	0.5	0.0	0.5
16	134 KV	KARMANASA-SAHUPURI	S/C	3	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
port/F	Export of	ER (With WR)			ER-NR	3.1	51.0	-48.0
18		JHARSUGUDA-DHARAMJAIGARH S/C	D/C	838	0	10.8	0.0	10.8
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	448	40	5.8	0.0	5.8
20	400	JHARSUGUDA-RAIGARH	Q/C	676	0	9.2	0.0	9.2
21	400 kV	RANCHI-SIPAT	D/C	246	0	3.7	0.0	3.7
22	220 kV	BUDHIPADAR-RAIGARH	S/C	44	71	0.0	0.3	-0.3
23	220 KV	BUDHIPADAR-KORBA	D/C	257	0 ED WD	4.6	0.0	4.6
port/E	Export of	ER (With SR)			ER-WR	34.1	0.3	33.9
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1329.8	0.0	24.8	-24.8
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	345.7	0.0	16.0	-16.0
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1946.9	0.0	45.2	-45.2
27	400 kV	TALCHER-I/C	D/C	31.7	472.5	0.0	5.2	-5.2
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0 ER-SR	0.0	0.0 86.0	0.0 -86.0
iport/E	Export of	ER (With NER)						
29	Export of	BINAGURI-BONGAIGAON	D/C	7	527	0.0	2.2	-2
29 30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	1	447	0.0	1.1	-1
29		BINAGURI-BONGAIGAON			447 104	0.0	1.1 1.4	-1 -1
29 30 31 aport/E	400 kV 220 kV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	1 0	447 104 ER-NER	0.0 0.0 0.0	1.1 1.4 4.7	-1 -1 -4.7
29 30 31	400 kV 220 kV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	1	447 104 ER-NER	0.0 0.0 0.0	1.1 1.4 4.7	-1 -1 -4.7
29 30 31 aport/E	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	1 0	447 104 ER-NER 0 NER-NR	0.0 0.0 0.0	1.1 1.4 4.7	-1 -1 -4.7
29 30 31 31 aport/E 32 aport/E 33	400 kV 220 kV Export of HVDC Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C	0	447 104 ER-NER 0 NER-NR	0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8	-1 -1 -4.7 0.0 0.0
29 30 31 31 aport/E 32 aport/E 33 34	400 kV 220 kV Export of 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	0 0 115 0	447 104 ER-NER 0 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6	-1 -1 -4.7 0.0 0.0 -47.8 -3.6
29 30 31 31 aport/E 32 aport/E 33 34 35	400 kV 220 kV Export of HVDC Export of	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	0 0 115 0 0	447 104 ER-NER 0 NER-NR 1108 150 307	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4
29 30 31 32 aport/E 32 aport/E 33 34 35 36	400 kV 220 kV Export of HVDC Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA	D/C D/C D/C D/C D/C D/C D/C D/C	1 0 0 115 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4 -34.8
29 30 31 31 aport/E 32 aport/E 33 34 35 36 37	400 kV 220 kV Export of HVDC Export of 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	1 0 0 115 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4 -34.8 -35.5
29 30 31 31 32 32 33 34 35 36 37 38	400 kV 220 kV Export of HVDC Export of	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 JABALPUR-ORAI	D/C	1 0 0 115 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4	-1 -1 -4.7 -4.7 -4.7 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4
29 30 31 31 32 32 33 34 35 36 37 38 39	400 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI	D/C	1 0 0 1115 0 0 0 0 0 0 957	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 11.1
29 30 31 31 32 32 33 34 35 36 37 38	400 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI	D/C	1 0 0 115 0 0 0 0 0 957	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 37.9	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9
29 30 31 31 32 32 33 34 35 36 37 38 39 40	220 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI	D/C	1 0 0 1115 0 0 0 0 0 0 957	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 11.1
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41	400 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 37.9 0.0	-1 -1 -4.7 -4.7 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 -37.9 -37.9 -37.9 -38.6
29 30 31 2port/E 32 2port/E 33 34 35 36 37 38 39 40 41 42	220 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL	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	1 0 0 115 0 0 0 0 0 0 0 0 5 5 80 5 62	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 37.9 0.0	-1 -1 -4.7 -4.7 -4.7 -4.7 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 -31.1 -37.9 -8.6 -7.8
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43	220 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI 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 S/C S/C	1 0 0 1115 0 0 0 0 0 957 0 958 580 562	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0	-1 -1 -4.7 -4.7 -4.7 -3.6 -3.6 -7.4 -34.8 -35.5 -7.4 -31.1 -37.9 -8.6 -7.8 -21.0
29 30 31 31 32 32 32 33 34 35 36 37 38 39 40 41 42 43 44	200 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 S/C S/C D/C	1 0 0 0 1115 0 0 0 0 0 0 0 0 957 0 0 580 562 968 118	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 0 0 214	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 37.9 0.0 0.0 0.0	-1 -1 -4.7 0.0 0.0 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 11.1 -37.9 8.6 7.8 21.0
29 30 31 31 32 32 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45	220 kV 220 kV Export of HVDC Export of 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 JABAL-PUR-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	1 0 0 0 0 0 0 0 0 580 562 968 118 58	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 0 214	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0	-1 -1 -4.7 -4.7 -4.7 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0.3
29 30 31 31 32 pport/E 32 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46	200 kV 220 kV Export of HVDC Export of HVDC 765 kV 400 kV	BINAGURI-BONGAIGAON 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 SATINA-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	1 0 0 0 0 0 0 0 0 0 0 580 562 968 118 58 8	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 0 214 18	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -47.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0.3 -0.5
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	200 kV 220 kV Export of HVDC Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C	1 0 0 0 0 0 0 0 0 580 562 968 118 58 8 166	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 444 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -3.6 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -0.5 -0.5 -0.5 -0.5
29 30 31 31 32 pport/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV 220 kV Export of HVDC A 765 kV 220 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 18 42 0 44	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0.3 -0.5
29 30 31 31 32 pport/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of 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 JABAL-PUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 444 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -0.5 -0.5 -0.5 -0.5
29 30 31 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 T65 kV 400 kV 220 kV 220 kV 220 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 442 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -33.8 -35.5 -7.4 -11.1 -37.9 -0.5 -0.3 -0.5 -0.5 -0.5 -0.0
29 30 31 31 32 33 34 35 36 37 38 40 41 42 43 44 44 45 46 47 48 49 49	220 kV Export of HVDC A00 kV 765 kV 400 kV 220 kV 400 kV 132kV Export of HVDC LINK	BINAGURI-BONGAIGAON 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-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-MOTA 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	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 444 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0.3 -0.5 -0.5 -0.5
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49 49	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of 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 JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 442 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -33.8 -35.5 -7.4 -11.1 -37.9 -0.5 -0.3 -0.5 -0.5 -0.5 -0.0
29 30 31 31 32 32 33 33 34 35 36 37 38 39 40 41 42 44 45 46 47 48 49	220 kV Export of HVDC A00 kV 765 kV 400 kV 220 kV 400 kV 132kV Export of HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL BR APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI ZERDA-KANKROLI 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	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	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 444 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -0.0 -0.5 -0.5 -0.5 -0.0 -0.0 -0.0 -0.0
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 9 10 10 10 10 10 10 10 10 10 10 10 10 10	220 kV 220 kV Export of HVDC A 765 kV 220 kV 220 kV 220 kV 132kV Export of 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 JABALPUR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUIALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BASUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-RUDGI KOLHAPUR-CHIKODI	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 444 0 WR-NR 1000 0 931 1883 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0.3 -0.5 -0.5 -0.5 -0.0 -123.4
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 55 55 55 55 56	220 kV Export of HVDC T65 kV 220 kV Export of HVDC A00 kV 220 kV 132kV Export of HVDC Cxport of 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 JABALPUR-ORAI SATNA-ORAI 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 KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI	D/C D/C D/C D/C S/C S/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 444 0 WR-NR 1000 0 931 11883 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.5 0.0 175.6 21.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -0.5 -0.5 -0.5 -0.5 -0.0 -123.4 -21.0 -0.0 -7.5 -26.2 -7.5 -26.2 -7.5 -0.0 -0.0
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 9 10 10 10 10 10 10 10 10 10 10 10 10 10	220 kV 220 kV Export of HVDC A 765 kV 220 kV 220 kV 220 kV 132kV Export of 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 JABALPUR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUIALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BASUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-RUDGI KOLHAPUR-CHIKODI	D/C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 118 42 0 WR-NR 1000 0 931 1883 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.1 0.5 0.0 0.5 0.0 175.6 21.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -4.8 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0 0.3 -0.5 -3.3 -0.5 -3.3 -0.5 -3.3 -0.5 -0.5 -0.0 -123.4 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0
29 30 31 port/E 32 port/E 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 port/E 55 55 56	220 kV 220 kV Export of HVDC A 765 kV 220 kV 220 kV 220 kV 132kV Export of HVDC LINK 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL BIBALIOR APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI BIB BARSUR-L-SILERU SOLAPUR-RAICHUR 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	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 18 42 0 444 0 WR-NR 1000 0 931 1883 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.5 0.0 175.6 21.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -0.5 -0.5 -0.5 -0.5 -0.0 -123.4 -21.0 -2
29 30 31 port/E 32 port/E 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 port/E 55 55 56	220 kV 220 kV Export of HVDC A 765 kV 220 kV 220 kV 220 kV 132kV Export of HVDC LINK 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL BIBALIOR APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI BIB BARSUR-L-SILERU SOLAPUR-RAICHUR 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	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	447 104 ER-NER 0 NER-NR 1108 150 307 2008 2246 512 0 1714 0 0 214 18 42 0 444 0 WR-NR 1000 0 931 1883 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 1.4 4.7 0.0 0.0 0.0 47.8 3.6 7.4 34.8 35.5 7.4 0.0 0.0 0.0 0.0 0.1 0.5 0.0 0.5 0.0 175.6 21.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1 -1 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -4.7 -3.6 -7.4 -34.8 -35.5 -7.4 -11.1 -37.9 -8.6 -7.8 -21.0 0 0 0.3 -0.5 -0.5 -0.0 -123.4 -21.0 0.0 -7.5 -26.2 -7.5 -26.2 -7.5 -0.0 -0.0 -7.5 -7.5 -7.5 -7.5 -7.5 -7.5 -7.5 -7.5