

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)
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बी-9, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 05th Apr 2019

To,

- कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. मुख्य महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 04.04.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-अप्रैल-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ 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 4^{th} April 2019, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

A. Maximum Demand

Date of Reporting

5-Apr-19

A. Maximum Demanu						
	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	47209	50199	46189	22617	2305	168519
Peak Shortage (MW)	855	0	-83	0	234	1007
Energy Met (MU)	1000	1232	1114	465	40	3851
Hydro Gen (MU)	190	29	77	41	5	342
Wind Gen (MU)	6	53	33			92
Solar Gen (MU)*	26.27	26.5	80.41	0.97	0.04	134
Energy Shortage (MU)	10.7	0.3	0.0	0.0	2.6	13.6
Maximum Demand Met during the day	46240	55107	48329	22837	2339	168665
(MW) & time (from NLDC SCADA)	19:40	11:33	15:25	20:27	18:45	19:31

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	0.035	0.00	0.25	6.99	7.25	78.85	13.90

Region	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 Shortag (MU)
	Punjab	6043	0	129.4	49.7	-1.6	53	0.0
ND.	Haryana	6373	0	127.3	98.5	-0.1	123	0.0
	Rajasthan	9953	0	218.4	51.8	-0.4	266	0.0
	Delhi	4023	0	81.3	66.6	-1.1	103	0.0
NR	UP	17329	0	331.4	140.9	0.3	389	0.0
	Uttarakhand	1752	0	37.0	12.7	0.7	207	0.0
	HP	1345	0	25.8	10.1	0.5	172	0.0
	J&K	2176	544	45.2	31.5	0.4	232	10.7
	Chandigarh	189	0	3.7	4.0	-0.2	15	0.0
	Chhattisgarh	4354	0	101.8	44.9	-2.6	900	0.0
	Gujarat	16691	0	377.4	123.9	4.1	512	0.0
	MP	9828	0	209.8	88.0	-0.8	732	0.0
WR	Maharashtra	22852	0	492.8	131.1	-0.9	974	0.0
WR	Goa	479	0	12.0	10.8	0.7	127	0.3
	DD	331	0	7.5	6.9	0.6	92	0.0
	DNH	771	0	18.2	18.1	0.1	57	0.0
	Essar steel	632	0	12.8	12.1	0.7	284	0.0
	Andhra Pradesh	8717	0	197.6	58.4	-0.3	403	0.0
	Telangana	9805	0	219.5	92.0	-0.6	419	0.0
SR	Karnataka	12219	0	246.5	81.9	-0.4	553	0.0
SK	Kerala	3935	0	84.7	60.1	1.2	238	0.0
	Tamil Nadu	16047	0	356.9	196.3	-0.3	733	0.0
	Pondy	411	0	8.5	8.7	-0.1	40	0.0
	Bihar	4722	0	85.0	79.5	0.1	352	0.0
	DVC	3133	0	66.7	-59.1	1.0	385	0.0
ER	Jharkhand	1241	0	25.2	16.3	-0.3	85	0.0
EK	Odisha	5380	0	112.3	44.3	1.8	398	0.0
	West Bengal	8611	0	174.4	52.4	1.4	415	0.0
	Sikkim	100	0	1.5	1.5	0.0	20	0.0
	Arunachal Pradesh	105	3	2.1	2.3	-0.2	31	0.0
	Assam	1396	164	23.3	18.7	0.8	132	2.0
	Manipur	175	3	2.4	2.2	0.2	42	0.0
NER	Meghalaya	343	21	5.4	3.2	0.5	66	0.4
	Mizoram	96	2	1.6	1.0	0.4	32	0.1
	Nagaland	126	4	2.1	1.6	0.4	41	0.0
	Tripura	234	15	3.3	1.4	0.7	62	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.8	-9.9	-23.0
Day peak (MW)	167.3	-498.7	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	166.4	-260.3	158.1	-64.9	0.1	-0.6
Actual(MU)	161.9	-254.0	148.0	-60.3	2.9	-1.4
O/D/U/D(MU)	-4.4	6.3	-10.1	4.6	2.9	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6295	13416	6982	1050	959	28702
State Sector	10385	12799	3460	3575	50	30269
Total	16680	26215	10442	4625	1008	58970

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	523	1292	631	515	16	2977
Lignite	27	17	55	0	0	99
Hydro	190	29	77	41	5	342
Nuclear	23	31	34	0	0	88
Gas, Naptha & Diesel	28	58	17	0	21	124
RES (Wind, Solar, Biomass & Others)	66	85	152	1	0	304
Total	857	1512	966	557	42	3933

Share of RES in total generation (%)	7.70	5.65	15.70	0.18	0.10	7.73
Share of Non-fossil fuel (Hydro, Nuclear and	32.54	9.63	27.19	7.50	11.13	18.65
RES) in total generation (%)	32.34	7.03	27.13	7.50	11.13	10.05

H. Diversity Factor
All India Demand Diversity Factor
1.037
Diversity factor = Sum of regional maximum demands / All India maximum demand

						Date of 1	Reporting :	5-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)
nport/E	Export of	ER (With NR)						
1	765kV	GAYA-VARANASI	D/C	0	543	0.0	9.5	-9.5
3	/05KV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	25 0	195 297	0.0	1.9 5.4	-1.9 -5.4
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	49	0.0	1.3	-1.3
6		PUSAULI-VARANASI	S/C	0	53	0.0	0.8	-0.8
7		PUSAULI -ALLAHABAD	S/C	0	49	0.0	0.4	-0.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	667	0.0	9.3	-9.3
9	400 kV		Q/C	0	815	0.0	15.4	-15.4
10	-	BIHARSHARIFF-BALIA	D/C	0	309	0.0	5.4	-5.4
12	1	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	D/C D/C	5	325	0.0	6.6 0.0	-6.6 0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	172	0.0	2.9	-2.9
14	-20 K7	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	122.55	GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16	132 kV	KARMANASA-SAHUPURI	S/C	36	2	0.2	0.0	0.2
17		KARMANASA-CHANDAULI	S/C	1	0	0.0	0.0	0.0
		END (MAILLE MAILE)			ER-NR	0.9	58.8	-57.9
port/F	export of	ER (With WR)					1	
18		JHARSUGUDA-DHARAMJAIGARH S/C	D/C	2337	0	38.1	0.0	38.1
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	494	188	3.5	0.0	3.5
20	<u> </u>	JHARSUGUDA-DURG	S/C	157	0	2.9	0.0	2.9
21	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	276 186	70 56	1.5	0.0	1.5 1.1
23		BUDHIPADAR-RAIGARH	S/C	0	118	0.0	1.8	-1.8
24	220 kV	BUDHIPADAR-KORBA	D/C	140	0	2.3	0.0	2.3
					ER-WR	49.3	1.8	47.5
port/F	Export of	ER (With SR)						
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1893.0	0.0	37.1	-37.1
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	681.0	0.0	15.8	-15.8
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2451.0	0.0	52.3	-52.3
28	400 kV	TALCHER-I/C	D/C	0.0	662.0	0.0	7.5	-7.5
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0 ER-SR	0.0	0.0 105.2	0.0 -105.2
port/F	Export of	ER (With NER)						
30	400 kV	BINAGURI-BONGAIGAON	D/C	399	7	4.7	0.0	5
31	400 kV	ALIPURDUAR-BONGAIGAON	D/C	527	0	7.1	0.0	7
	400 kV 220 kV		+		0 27	7.1 0.7	0.0	7 1
31 32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	527	0	7.1	0.0	7
31 32	220 kV Export of	ALIPURDUAR-BONGAIGAON	D/C	527	0 27	7.1 0.7	0.0	7 1
31 32 port/E	220 kV Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	527 81	0 27 ER-NER	7.1 0.7 12.4	0.0 0.0 0.0	7 1 12.4
31 32 nport/E	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	527 81	0 27 ER-NER	7.1 0.7 12.4 15.0	0.0 0.0 0.0	7 1 12.4
31 32 mport/F 33 mport/F 34	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C - D/C	527 81 691	0 27 ER-NER 0 NER-NR	7.1 0.7 12.4 15.0 15.0	0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0
31 32 nport/E 33 nport/E 34 35	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	527 81 691 0 243	0 27 ER-NER 0 NER-NR 551	7.1 0.7 12.4 15.0 15.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 15.0 0.0
31 32 mport/F 33 mport/F 34 35 36	220 kV Export of HVDC	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 D/C	527 81 691 0 243 0	0 27 ER-NER 0 NER-NR 551 0 1362	7.1 0.7 12.4 15.0 15.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.9	7 1 12.4 15.0 15.0 0.0 0.0 -33.9
31 32 aport/F 33 aport/F 34 35 36 37	220 kV 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	D/C D/C D/C D/C D/C D/C D/C D/C	527 81 691 0 243 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.9 45.6	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6
31 32 aport/F 33 aport/F 34 35 36 37 38	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	527 81 691 0 243 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.9 45.6	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0
31 32 aport/F 33 aport/F 34 35 36 37	220 kV 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	D/C D/C D/C D/C D/C D/C D/C D/C	527 81 691 0 243 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.9 45.6	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6
31 32 33 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 D/C D/C D/C D/C D/C D/C D/C	527 81 691 0 243 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.9 45.6 14.0 23.6	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6
31 32 port/F 33 port/F 34 35 36 37 38 39 40	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	527 81 691 0 243 0 0 0 0 0 595	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 33.9 45.6 14.0 23.6	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0
31 32 33 33 34 35 36 37 38 39 40	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	D/C	527 81 691 0 243 0 0 0 0 0 595	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of HVDC Export of HVDC - 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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C	527 81 691 0 243 0 0 0 0 595 0 0 171 124	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9
31 32 33 33 33 34 35 36 37 38 39 40 41 42 43 44 45	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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C	527 81 691 0 243 0 0 0 595 0 0 171 124 974	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 12.2 2.7 0.9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of HVDC Export of HVDC - 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 CHTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C S/C S/C S/C S/C S/C S/C S/C D/C D/C S/C S/C S/C S/C D/C D/C S/C S/C S/C S/C D/C D/C D/C S/C S/C S/C D/C D/C	527 81 691 0 243 0 0 0 0 595 0 0 171 124 974	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 2.7 0.9 22.2
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	220 kV Export of HVDC Export of HVDC - 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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C S/C S/C	527 81 691 0 243 0 0 0 0 595 0 0 171 124 974 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 72 0 213 80	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1
31 32 33 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	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 CHITORGARH-BANASKANTHA 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 S/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 595 0 0 171 124 974 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0 213 80	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 1.7 -2.3
31 32 33 33 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48 49	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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUALPUR 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 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 D/C	527 81 0 243 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 2213 80 120 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7
31 32 33 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 CHITORGARH-BANASKANTHA 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 S/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 595 0 0 171 124 974 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0 213 80	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 1.7 -2.3
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	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 CHITORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 595 0 0 171 124 974 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 1.2 2.7 0.9 22.2 0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV	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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C S/C S/C	527 81 691 0 243 0 0 0 595 0 0 171 124 974 0 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0 213 80 120 0 26 0 WR-NR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 1.2 2.7 0.9 22.2 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48 49 50 51	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR 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	527 81 691 0 243 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 10.0 10.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV	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 CHTORGARH-BANASKANTHA 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	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 10.0 10.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51 52 53 54	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 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 SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUIALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-MOTA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0 0 63 24 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 1.2 2.7 0.9 22.2 0 0.0 0.0 0.0 37.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 15.0 0.0 0.0 0.0 33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0
31 32 33 33 34 35 36 37 38 40 41 42 43 44 45 46 46 47 48 49 50 51	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC 132kV 132kV	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 CHITORGARH-BANASKANTHA 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 S/C S/C	527 81 0 243 0 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0 0 63 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 1.2 2.7 0.9 22.2 0 0.0 0.0 0.0 37.7 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0 0.0 0.0 0.0 -46.9 -51.2
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Z20 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC LINK	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 CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUIALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA BADOD-MOTA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0 0 63 24 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0 1.2 2.7 0.9 22.2 0 0.0 0.0 0.0 37.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0
31 32 33 33 34 35 36 37 38 40 41 42 43 44 45 50 51 51	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC 132kV 132kV	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 CHITORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU 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	527 81 691 0 243 0 0 0 0 595 0 0 171 124 974 0 0 0 0 63 24 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR 979 0 2775 2643 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0 0.0 0.0 0.0 -46.9 -51.2 9.6
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51 51 51 51 51 51 51 51 51	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 CHITORGARH-BANASKANTHA 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 KOLHAPUR-CHIKODI KOLHAPUR-CHIKODI	D/C S/C S/C	527 81 691 0 243 0 0 0 0 595 0 0 171 124 974 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 213 80 120 0 26 0 WR-NR 979 0 2775 2643 0 0 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0 0.0 0.0 -46.9 -51.2 9.6 0.0
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 51 52 53 54 55 55 56 57 58	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 CHITORGARH-BANASKANTHA 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-CHIKODI PONDA-AMBEWADI	D/C D/C D/C D/C D/C S/C D/C D/C D/C D/C D/C S/C D/C D/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 595 0 0 171 124 974 0 0 0 0 63 24 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0 213 80 120 0 26 0 WR-NR 979 0 2775 2643 0 0 0 0	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0 0.0 0.0 -46.9 -51.2 9.6 0.0 0.0
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 55 56 57 58	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 CHITORGARH-BANASKANTHA 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-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 595 0 0 171 124 974 0 0 0 0 63 24 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0 213 80 120 0 26 0 WR-NR 979 0 2775 2643 0 0 0 0 39 WR-SR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0 0.0 0.0 -46.9 -51.2 9.6 0.0 0.0 0.9
31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 51 52 53 54 55 55 56 57 58	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 CHITORGARH-BANASKANTHA 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-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	527 81 691 0 243 0 0 0 0 0 0 595 0 0 171 124 974 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 27 ER-NER 0 NER-NR 551 0 1362 2290 817 733 0 1360 0 0 72 0 213 80 120 0 26 0 WR-NR 979 0 2775 2643 0 0 0 0 39 WR-SR	7.1 0.7 12.4 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 1 12.4 15.0 0.0 0.0 0.0 -33.9 -45.6 -14.0 -23.6 10.0 -28.2 1.2 2.7 0.9 22.2 -1 -1.7 -2.3 0.7 -0.1 0.0 -113.0 0.0 0.0 46.9 -51.2 9.6 0.0 0.0 0.9