

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 12th Feb 2020

To,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ 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. 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. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,२९ , रेस कोर्स क्रॉस रोड, बंगलुरु –५६०००९ Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 11.02.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-फरवरी-2020 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 11th Feb 2020, 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 12-Feb-20

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	48122	50202	41866	18321	2450	160961
Peak Shortage (MW)	638	0	0	0	31	669
Energy Met (MU)	1004	1206	1022	372	42	3645
Hydro Gen (MU)	129	50	72	37	3	292
Wind Gen (MU)	18	65	73			156
Solar Gen (MU)*	37.63	24.30	76.10	1.56	0.04	140
Energy Shortage (MU)	12.5	0.0	0.0	0.0	0.6	13.1
Maximum Demand Met during the day (MW) & time	50413	57529	48407	19023	2534	172750
(from NLDC SCADA)	09:40	11:02	07:58	18:46	18:23	09:43

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	0.039	0.00	0.00	6.41	6.41	70.56	23.03

C. Power Supply Position in States

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 Shortage (MU
	Punjab	6542	0	129.2	77.0	-1.3	88	0.0
	Haryana	7300	0	136.6	88.5	0.3	367	0.0
	Rajasthan	14113	0	248.1	70.5	0.8	592	0.0
	Delhi	4098	0	69.5	53.7	0.6	288	0.0
NR	UP	16326	0	295.5	125.4	-0.9	719	0.0
	Uttarakhand	2130	0	38.7	20.4	0.8	173	0.0
	HP	1643	0	29.2	23.5	-1.5	53	0.0
	J&K(UT) and Ladakh(UT)	2551	638	53.0	44.6	0.0	384	12.5
	Chandigarh	245	0	4.0	3.9	0.1	29	0.0
	Chhattisgarh	3609	0	73.7	29.3	-1.0	186	0.0
	Gujarat	16051	0	343.5	88.4	6.4	662	0.0
	MP	14667	0	269.9	126.9	-1.8	656	0.0
WR	Maharashtra	22953	0	471.1	143.7	-0.5	566	0.0
WK	Goa	579	0	11.2	10.6	0.1	50	0.0
	DD	330	0	7.4	6.8	0.6	41	0.0
	DNH	796	0	18.5	18.4	0.1	35	0.0
	Essar steel	801	0	10.6	10.4	0.2	222	0.0
	Andhra Pradesh	9057	0	184.5	72.6	0.2	428	0.0
	Telangana	10373	0	210.8	120.4	0.6	531	0.0
SR	Karnataka	11918	0	233.9	78.2	-1.3	391	0.0
310	Kerala	3788	0	75.1	60.7	1.4	364	0.0
	Tamil Nadu	14469	0	310.0	141.7	-1.3	527	0.0
	Pondy	367	0	7.4	7.6	-0.2	30	0.0
	Bihar	4450	0	77.6	77.0	-1.0	229	0.0
	DVC	3448	0	66.5	-38.6	-0.2	243	0.0
ER	Jharkhand	1278	0	25.2	20.1	-0.2	101	0.0
LIN	Odisha	4064	0	80.0	15.0	0.9	271	0.0
	West Bengal	6202	0	120.9	34.9	-0.6	361	0.0
	Sikkim	131	0	1.9	1.9	-0.1	20	0.0
	Arunachal Pradesh	120	2	2.2	2.0	0.2	61	0.0
	Assam	1370	16	22.6	20.4	0.1	124	0.4
	Manipur	212	2	2.7	2.9	-0.2	42	0.0
NER	Meghalaya	386	0	6.7	5.7	-0.1	64	0.2
	Mizoram	105	2	1.6	1.5	-0.1	26	0.0
	Nagaland	126	2	2.3	2.0	0.2	40	0.0
	Tripura	226	1	3.6	1.8	0.1	35	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.0	-11.1	-12.7
Day peak (MW)	344.8	-589.0	-584.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.8	-284.9	119.9	-92.1	11.2	-0.1
Actual(MU)	237.0	-281.1	118.3	-87.0	9.9	-3.0
O/D/U/D(MU)	-8.8	3.8	-1.6	5.0	-1.2	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5813	13373	4872	1560	703	26321
State Sector	12370	15550	6750	5880	11	40561
Total	18183	28922	11622	7440	715	66882

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	485	1253	528	449	8	2724
Lignite	27	17	54	0	0	98
Hydro	129	50	72	37	3	292
Nuclear	24	35	40	0	0	98
Gas, Naptha & Diesel	32	42	18	0	22	114
RES (Wind, Solar, Biomass & Others)	86	101	195	2	0	384
Total	783	1498	907	488	33	3710

Share of RES in total generation (%)	10.93	6.73	21.54	0.33	0.12	10.34
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.46	12.41	33.86	7.97	9.62	20.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030	
Based on State Max Demands	1.081	

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

 $[\]textbf{*Source} : \textbf{RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.}$

		IN	<u> FER-REGI</u>	ONAL EXCHA	ANGES	Date of 1	Reporting :	12-Feb-20
								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)
		ER (With NR)						
5	HVDC	ALIPURDUAR-AGRA PUSAULI B/B	S/C	0	0 378	0.0	0.0 8.9	0.0 -8.9
1		GAYA-VARANASI	D/C	118	599	0.0	6.5	-6.5
2	765kV	SASARAM-FATEHPUR	S/C	223	184	0.1	0.0	0.1
3		GAYA-BALIA	S/C	0	502	0.0	7.5	-7.5
6		PUSAULI-VARANASI	S/C	0	294	0.0	5.8	-5.8
7	4	PUSAULI -ALLAHABAD	S/C	0	180	0.0	3.0	-3.0
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	235	326 775	0.0	0.8	-0.8 -11.0
10	400 K	BIHARSHARIFF-BALIA	D/C	19	328	0.0	3.7	-3.7
11		MOTIHARI-GORAKHPUR	D/C	0	510	0.0	9.5	-9.5
12		BIHARSHARIFF-VARANASI	D/C	224	191	0.3	0.0	0.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	168	0.0	2.8	-2.8
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
Import/E	vnert of	FR (With WP)			ER-NR	1.1	59.5	-58.4
_	aport of	ER (With WR)	1		1			Τ
18	765 1.37	JHARSUGUDA-DHARAMJAIGARH	Q/C	6314	0	21.0	0.0	21.0
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	895	80	9.3	0.0	9.3
20	1	JHARSUGUDA-DURG	D/C	1000050	109 177	0.0	0.4	-0.4 0.7
22	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	312 308	0	3.2	0.0	3.2
23		BUDHIPADAR-RAIGARH	S/C	0	1	0.0	0.0	0.0
24	220 kV	BUDHIPADAR-KORBA	D/C	92	0	1.1	0.0	1.1
					ER-WR	35.3	0.4	34.9
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	530.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1587.0	0.0	35.4	-35.4
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2589.0	0.0	45.5	-45.5
28	400 kV	TALCHER-I/C	D/C	721.0	184.0	6.4	0.0	6.4
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	2.0	0.0 ER-SR	0.0	93.3	0.0 -93.3
Import/F	Export of	ER (With NER)			EK-5K	0.0	75.5	-93.3
30	inport or			0				
		BINAGURI-BONGAIGAON	D/C	0	553	0.0	7.4	-7
31	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	0	553 849	0.0	7.4	-7 -12
	400 kV 220 kV							1
31		ALIPURDUAR-BONGAIGAON	D/C	0	849	0.0	11.9	-12
31 32 Import/E	220 kV Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C D/C	0	849 158 ER-NER	0.0 0.0 0.0	11.9 2.2 21.4	-12 -2 -21.4
31 32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	849 158 ER-NER	0.0 0.0 0.0	11.9 2.2 21.4	-12 -2 -21.4
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C D/C	0	849 158 ER-NER	0.0 0.0 0.0	11.9 2.2 21.4	-12 -2 -21.4
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C D/C	0 0	849 158 ER-NER 503 NER-NR	0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5	-12 -2 -21.4 -10.5 -10.5
31 32 Import/E 33 Import/E 34	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C - D/C	0 0	849 158 ER-NER 503 NER-NR	0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5	-12 -2 -21.4 -10.5 -10.5
31 32 Import/E 33 Import/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	0 0 0 0 0 243	849 158 ER-NER 503 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2
31 32 Import/E 33 Import/E 34	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C - D/C	0 0	849 158 ER-NER 503 NER-NR	0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5	-12 -2 -21.4 -10.5 -10.5
31 32 Import/E 33 Import/E 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	D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 0 243 0	849 158 ER-NER 503 NER-NR 0 492 1925	0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.5	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9
31 32 Import/F 33 Import/F 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	D/C D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 243 0 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646	0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.5 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8
31 32 Import/E 33 Import/E 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 GWALIOR-ORAI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C	0 0 0 0 243 0 0 0 0 0 701	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.5 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -32 -44.9 -45.8 -23.7 -32.3 11.5
31 32 Import/E 33 Import/E 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	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	0 0 0 243 0 0 0 0 0 701	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399	0.0 0.0 0.0 0.0 0.0 0.0 2.5 0.0 0.0 0.0 0.0 11.5 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 11.5 -28.8
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42	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 CHITTORGARH-BANASKANTHA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C D/C	0 0 0 243 0 0 0 0 0 701 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957	0.0 0.0 0.0 0.0 0.0 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1	-12 -2 -21.4 -10.5 -10.5 -34.5 -32. -44.9 -45.8 -23.7 -32.3 11.5 -28.8 -4.1
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	D/C	0 0 0 243 0 0 0 0 701 0 295	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 11.5 -28.8 -4.1 0.9
31 32 Import/F 33 Import/F 34 35 36 37 38 39 40 41 42 43 44	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 0 243 0 0 0 0 701 0 295 186 364	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -11.5 -28.8 -4.1 0.9 0.1
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	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 CHUTTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C	0 0 0 243 0 0 0 0 701 0 295 186 364 986	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -31.5 -28.8 -4.1 -0.9 -0.1 -22.6
31 32 Import/E 33 Import/E 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 GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C	0 0 0 243 0 0 0 0 701 0 295 186 364 986 187	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1
31 32 Import/E 33 Import/E 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7
31 32 Import/E 33 Import/E 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-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 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51 29	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -1 -0.7 -0.5
31 32 Import/E 33 Import/E 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7
31 32 Import/E 33 Import/E 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	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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-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 0 243 0 0 0 0 0 0 701 0 295 186 364 986 187 51	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 0 314 61 60 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 0.0 0.0 1 0.1	-12 -2 -21.4 -10.5 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -41.0 -9 -0.1 -1 -0.7 -0.5 -0.5 -1.7
31 32 Import/E 33 Import/E 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 V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51 29	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -32.4 -44.9 -45.8 -23.7 -32.3 -31.5 -28.8 -4.1 -0.9 -0.1 -1 -0.7 -0.5 -0.5 -1.7 -0.4
31 32 Import/E 33 Import/E 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 - 132kV	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 CHITTORGARH-BANASKANTHA ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51 29	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -32.6 -1 -0.7 -0.5 -1 -0.7 -0.5 -1.7 -0.4 -0.0
31 32 Import/E 33 Import/E 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 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALAPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51 29	849 158 ER-NER 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -32.6 -1 -0.7 -0.5 -1 -0.7 -0.5 -1.7 -0.4 -0.0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52	220 kV Export of HVDC Export of HVDC - 765 kV - 400 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPUR-AWALIARIAN BHANPUR-AWALIARIAN MALANPUR-AWALIARIAN 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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 243 0 0 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-12 -2 -21.4 -10.5 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -31.5 -28.8 -4.1 -0.9 -0.1 -1.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54	220 kV Export of HVDC Export of HVDC 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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK 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 0 243 0 0 0 0 0 0 0 0 0 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 8 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 0.0 221.7	-12 -2 -21.4 -10.5 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -1 -1 -0.5 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV 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 CHITTORGARH-BANASKANTHA ZERDA-BHISMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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 0 243 0 0 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 0 8 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 28.8 4.1 0.0 0.0 1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -31.5 -28.8 -4.1 -0.9 -0.1 -1 -0.5 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 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 GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILIERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C	0 0 0 243 0 0 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 28.8 4.1 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -31.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -13.9
31 32 Import/F 33 Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0 WR-NR 995 0 2366 2847 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 10.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 0.0 23.6 32.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -31.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -33.9 -0.0
31 32 Import/F 33 Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57 58	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJAL-PUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANDUR BHANPURA-WANDUR GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C	0 0 0 243 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0 WR-NR 995 0 2366 22847 0 0 0 117	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0 0.0 0.0 2.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -32.0 -2.0
31 32 Import/F 33 Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C	0 0 0 243 0 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 0 WR-NR 995 0 2366 2847 0 0 0 117 75	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -32.0 -2.0 -0.6
31 32 Simport/F 33 Simport/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Simport/F 52 53 54 55 56 57 58	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-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 0 243 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 8 0 WR-NR 995 0 2366 2847 0 0 0 117 75 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0 0.0 0.0 2.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -32.0 -2.0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58 59	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV 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 JABAL-PUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-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	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 0 243 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 8 0 WR-NR 995 0 2366 2847 0 0 0 117 75 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -1.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -32.9 -0.6 -61.8
31 32 (mport/F 33 (mport/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 (mport/F 52 53 54 55 56 57 58	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-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 0 243 0 0 0 0 701 0 295 186 364 986 187 51 29 114 62 0	849 158 ER-NER 503 NER-NR 0 492 1925 2646 1575 983 0 1399 957 152 305 0 314 61 60 0 8 8 0 WR-NR 995 0 2366 2847 0 0 0 117 75 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.9 2.2 21.4 10.5 10.5 34.5 5.7 44.9 45.8 23.7 32.3 0.0 0.0 0.0 1 0.1 0.7 0.0 0.0 0.0 221.7 20.1 0.0 23.6 32.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0	-12 -2 -21.4 -10.5 -10.5 -34.5 -3.2 -44.9 -45.8 -23.7 -32.3 -32.3 -32.3 -32.3 -41.5 -28.8 -4.1 -0.9 -0.1 -22.6 -1 -0.7 -0.5 -1.7 -0.4 -0.0 -181.1 -20.1 -0.0 -22.2 -32.0 -32.0 -2.0 -0.6