

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, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 28th Jan 2020

To,

- 1. 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. 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 27.01.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-जनवरी-2020 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 27th Jan 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 28-Jan-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)	46236	49012	41258	18929	2457	157892
Peak Shortage (MW)	692	0	0	0	51	743
Energy Met (MU)	943	1164	1002	357	42	3507
Hydro Gen (MU)	124	45	85	36	5	295
Wind Gen (MU)	15	46	26			87
Solar Gen (MU)*	25.50	22.50	89.84	1.44	0.04	139
Energy Shortage (MU)	12.2	0.0	0.0	0.0	0.7	12.9
Maximum Demand Met during the day (MW) & time	48422	56070	47469	19063	2478	168675
(from NLDC SCADA)	09:28	11:13	08:14	18:57	18:15	09:45

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	0.040	0.00	0.41	7.23	7.64	73.50	18.87

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	5663	0	107.5	53.2	-1.7	86	0.0
	Haryana	6472	0	123.5	85.7	-0.3	123	0.0
	Rajasthan	13578	0	238.4	67.9	-2.7	300	0.0
	Delhi	4191	0	69.0	54.4	-1.0	266	0.0
NR	UP	15962	0	281.2	116.5	-1.3	740	0.0
	Uttarakhand	2024	0	38.9	26.7	0.5	256	0.1
	HP	1549	0	28.4	22.5	-1.0	81	0.0
	J&K(UT) and Ladakh(UT)	2641	660	51.2	45.6	0.2	357	12.1
	Chandigarh	243	0	4.6	4.1	0.5	56	0.0
	Chhattisgarh	3819	0	82.3	39.1	0.0	295	0.0
	Gujarat	15925	0	332.4	85.6	4.6	673	0.0
	MP	14522	0	255.7	140.1	-4.4	607	0.0
WR	Maharashtra	22876	0	454.7	141.9	-1.2	472	0.0
WK	Goa	480	0	9.8	9.8	-0.4	62	0.0
	DD	319	0	6.2	6.0	0.2	41	0.0
	DNH	797	0	17.2	17.2	0.0	38	0.0
	Essar steel	732	0	5.3	5.7	-0.4	205	0.0
	Andhra Pradesh	9068	0	182.9	65.7	-0.2	405	0.0
	Telangana	10872	0	215.0	104.8	0.9	820	0.0
SR	Karnataka	12138	0	228.3	59.1	-0.3	690	0.0
JI.	Kerala	3706	0	72.1	55.9	1.6	231	0.0
	Tamil Nadu	14356	0	296.7	155.7	1.4	695	0.0
	Pondy	357	0	7.0	7.1	-0.1	55	0.0
	Bihar	4563	0	79.9	78.0	0.2	263	0.0
	DVC	3257	0	64.8	-35.8	-0.2	254	0.0
ER	Jharkhand	1266	0	26.3	16.9	-0.2	36	0.0
LIN	Odisha	3803	0	70.1	7.0	0.8	221	0.0
	West Bengal	6531	0	113.9	24.2	-0.6	198	0.0
	Sikkim	140	0	2.1	1.8	0.3	56	0.0
	Arunachal Pradesh	130	1	2,2	2.0	0.1	65	0.0
	Assam	1362	25	22.7	19.4	0.8	78	0.4
	Manipur	205	2	2.9	3.1	-0.2	26	0.0
NER	Meghalaya	364	0	6.7	5.7	-0.2	82	0.3
	Mizoram	114	1	1.5	1.6	-0.6	22	0.0
	Nagaland	132	3	2.3	2.0	0.1	37	0.0
	Tripura	220	0	3.4	3.4	0.0	101	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.2	-10.9	-10.4
Day peak (MW)	550.0	-575.3	-852.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	224.1	-235.0	106.4	-104.6	8.8	-0.3
Actual(MU)	202.2	-236.7	131.1	-104.2	8.8	1.2
O/D/U/D(MU)	-21.9	-1.8	24.7	0.4	0.0	1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5852	14843	7732	1360	613	30400
State Sector	11325	15361	5890	5210	112	37898
Total	17177	30204	13622	6570	726	68298

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	499	1192	528	452	12	2683
Lignite	20	15	48	0	0	82
Hydro	124	45	85	36	5	295
Nuclear	23	33	40	0	0	96
Gas, Naptha & Diesel	26	39	18	0	20	103
RES (Wind, Solar, Biomass & Others)	69	80	155	1	0	305
Total	762	1403	873	489	38	3565
CI ADDICT () ((A/)	0.44		4	0.00	0.44	0.55

Share of RES in total generation (%)	9.12	5.67	17.73	0.30	0.11	8.57
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.48	11.18	31.99	7.65	14.06	19.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029	
Based on State Max Demands	1.093	

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> TER-REGI</u>	ONAL EXCHA	ANGES	Date of I	Reporting :	28-Jan-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	299	0.0	6.9	0.0 -6.9
1		GAYA-VARANASI	D/C	0	1027	0.0	10.4	-10.4
2	765kV	SASARAM-FATEHPUR	S/C	57	429	0.0	4.4	-4.4
3		GAYA-BALIA	S/C	0	639	0.0	9.1	-9.1
6		PUSAULI-VARANASI	S/C	0	233	0.0	4.7	-4.7
7		PUSAULI -ALLAHABAD	S/C	0	162	0.0	2.4	-2.4
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	0	850 1099	0.0	9.9	-9.9 -16.4
10	400 K	BIHARSHARIFF-BALIA	D/C	0	431	0.0	5.9	-5.9
11	-	MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	93	383	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	S/C	0	95	0.0	1.7	-1.7
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 ED ND	0.0	0.0	0.0
Import/E	Evnert of	FR (With WP)			ER-NR	0.7	67.3	-66.6
_	export of	ER (With WR)	1					Τ
18	745137	JHARSUGUDA-DHARAMJAIGARH	Q/C	1551	0	21.9	0.0	21.9
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	666	191	3.3	0.0	3.3
20		JHARSUGUDA DAIGABH	D/C	189 47	111 451	0.2	0.0	0.2 -4.3
22	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	227	451 86	0.0	0.0	-4.3 1.1
23		BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.5	-1.5
24	220 kV	BUDHIPADAR-KORBA	D/C	151	8	1.9	0.0	1.9
					ER-WR	28.4	5.9	22.5
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	534.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1982.0	0.0	42.7	-42.7
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2690.0	0.0	48.2	-48.2
28	400 kV	TALCHER-I/C	D/C	396.0	796.0	0.0	1.6	-1.6
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0 ER-SR	0.0	0.0 103.2	0.0 -103.2
Import/F	Export of	ER (With NER)			ER-5R	0.0	103.2	-103.2
30	I or		D. (C	117	1	0.4	0.0	0
		IBINAGURI-BONGAIGAON	D/C	11/	222	0.4	0.0	U
31	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	208	222	0.4	0.0	0
	400 kV 220 kV				1			1
31 32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	208	285	0.9	0.0	1
31 32 Import/E	220 kV Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C D/C	208	285 59 ER-NER	0.9 0.1 1.3	0.0 0.0 0.0	1 0 1.3
31 32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	208	285 59 ER-NER	0.9 0.1 1.3	0.0 0.0 0.0	1 0 1.3
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C D/C	208	285 59 ER-NER	0.9 0.1 1.3	0.0 0.0 0.0	1 0 1.3
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	208 40 473	285 59 ER-NER 0 NER-NR	0.9 0.1 1.3 10.8 10.8	0.0 0.0 0.0 0.0	1 0 1.3 10.8 10.8
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	208 40 473	285 59 ER-NER 0 NER-NR	0.9 0.1 1.3 10.8 10.8	0.0 0.0 0.0 0.0 0.0	1 0 1.3 10.8 10.8 -22.5
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 V'CHAL B/B	D/C D/C - D/C D/C	208 40 473 0 449	285 59 ER-NER 0 NER-NR	0.9 0.1 1.3 10.8 10.8 0.0	0.0 0.0 0.0 0.0 0.0 22.5 0.0	1 0 1.3 10.8 10.8 10.8 10.1 10.1 10.1 10.1 10.1
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	208 40 473	285 59 ER-NER 0 NER-NR	0.9 0.1 1.3 10.8 10.8	0.0 0.0 0.0 0.0 0.0	1 0 1.3 10.8 10.8 -22.5
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 V'CHAL B/B APL -MHG	D/C D/C D/C D/C D/C D/C D/C	208 40 473 0 449 0	285 59 ER-NER 0 NER-NR 1851 0 1552	0.9 0.1 1.3 10.8 10.8 0.0 10.1	0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7	1 0 1.3 10.8 10.8 10.8 10.8 -22.5 10.1 -38.7
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	208 40 473 0 449 0 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 0.0	0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7 42.7	1 0 1.3 10.8 10.8 10.8 10.1 -38.7 -42.7
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	208 40 473 0 449 0 0 0 0 0 735	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0	0.9 0.1 1.3 10.8 10.8 0.0 10.1 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7 42.7 21.2 30.6 0.0	1 0 1.3 10.8 10.8 10.8 10.1 10.1 10.1 10.1 10.1
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	208 40 473 473 0 449 0 0 0 0 0 0 0 735 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 0.0 0.0 0.0 0.0 11.5	0.0 0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9	1 0 1.3 10.8 10.8 10.8 10.8 10.1 10.1 10.1 10.1
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 V'CHAL 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	208 40 473 473 0 449 0 0 0 0 0 0 735 0 283	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832	0.9 0.1 1.3 10.8 10.8 0.0 10.1 0.0 0.0 0.0 0.0 11.5 0.0	0.0 0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8	1 0 1.3 10.8 10.8 10.8 10.8 10.1 10.1 10.1 10.1
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	220 kV Export of HVDC HVDC	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-KANKROLI	D/C	208 40 473 473 0 449 0 0 0 0 0 0 735 0 283 159	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8 0.1	1 0 1.3 10.8 10.8 10.8 10.8 10.1 -38.7 -42.7 -21.2 -30.6 11.5 -27.9 -4.8 -0.1
31 32 Import/F 33 Import/F 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of HVDC HVDC	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-KANKROLI ZERDA -BHINMAL	D/C	208 40 473 0 449 0 0 0 0 0 735 0 283 159 141	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8 0.1 2.8	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.1 10.1 10.1
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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C	208 40 473 0 449 0 0 0 0 735 0 283 159 141 986	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8 0.1 2.8 0.0	1 0 1.3 10.8 10.8 10.8 10.8 10.8 10.1 10.1 10.1
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 SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C	208 40 473 0 4449 0 0 0 0 0 735 0 283 159 141 986 207	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8 0.1 2.8 0.0	1 0 1.3 10.8 10.8 10.8 10.8 10.8 10.1 10.8 10.1 10.1
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-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	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	208 40 473 0 449 0 0 0 0 0 0 0 283 159 141 986 207 20	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86	0.9 0.1 1.3 10.8 10.8 10.8 10.0 0.0 10.1 0.0 0.0 0.0 0.0 11.5 0.0 0.0 0.0 0.0 22.7 0 0.4	0.0 0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8 0.1 2.8 0.0 1	1 0 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.1 -38.7 -42.7 -21.2 -30.6 11.5 -27.9 -4.8 -0.1 -2.8 22.7 -1 -0.1
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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK	D/C	208 40 473 0 449 0 0 0 0 0 0 735 0 283 159 141 986 207 20 31	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.1 10.1
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 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-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-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	208 40 473 0 449 0 0 0 0 0 0 0 283 159 141 986 207 20	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86	0.9 0.1 1.3 10.8 10.8 10.8 10.0 0.0 10.1 0.0 0.0 0.0 0.0 11.5 0.0 0.0 0.0 0.0 22.7 0 0.4	0.0 0.0 0.0 0.0 0.0 0.0 22.5 0.0 38.7 42.7 21.2 30.6 0.0 27.9 4.8 0.1 2.8 0.0 1	1 0 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.1 -38.7 -42.7 -21.2 -30.6 11.5 -27.9 -4.8 -0.1 -2.8 22.7 -1 -0.1
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 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 CHITTORGARH-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	208 40 473 0 4449 0 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0	0.9 0.1 1.3 10.8 10.8 10.8 10.0 10.1 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	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.1 10.1
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 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	208 40 473 0 449 0 0 0 0 0 0 0 0 283 159 141 986 207 20 31 99 48	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.1 10.8 10.1 10.1
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 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	208 40 473 0 449 0 0 0 0 0 0 0 0 283 159 141 986 207 20 31 99 48	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0	0.9 0.1 1.3 10.8 10.8 10.8 10.0 0.0 10.1 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	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.1 10.1
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	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 BHANPURA-RANPUR BHANPURA-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	208 40 473 0 449 0 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0 WR-NR	0.9 0.1 1.3 10.8 10.8 10.8 10.0 10.1 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	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.1 10.1
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 400 kV 220 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-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPUR-ARNPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRUAL-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	208 40 473 0 449 0 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 3447 86 119 0 29 0 WR-NR	0.9 0.1 1.3 10.8 10.8 10.8 0.0 10.1 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	1 00 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GATINA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -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	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	208 40 473 0 449 0 0 0 0 0 0 0 0 0 283 159 141 986 207 20 31 99 48 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0 WR-NR	0.9 0.1 1.3 10.8 10.8 10.8 10.8 0.0 10.1 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	1 0 1.3 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 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 V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHISMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	208 40 473 473 0 449 0 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0 WR-NR	0.9 0.1 1.3 10.8 10.8 10.8 10.8 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR 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	208 40 473 0 449 0 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0 WR-NR 1016 0 1845 2132 138	0.9 0.1 1.3 10.8 10.8 10.8 10.8 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 - 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-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHASUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C	208 40 473 473 0 449 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0 0 0 467	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0 WR-NR 1016 0 1845 2132 138 0	0.9 0.1 1.3 10.8 10.8 10.8 10.8 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 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-SHUJALPUR 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	208 40 473 473 0 449 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0 0 0 0 467 0 1	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 29 0 WR-NR 1016 0 1845 2132 138 0 0	0.9 0.1 1.3 10.8 10.8 10.8 10.8 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 - 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-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHASUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C	208 40 473 473 0 449 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0 0 0 467	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 WR-NR 1016 0 1845 2132 138 0 0 94	0.9 0.1 1.3 10.8 10.8 10.8 10.8 10.0 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 - 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARANPUR 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	D/C	208 40 473 0 449 0 0 0 0 0 0 0 0 0 0 0 0 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 0 WR-NR 1016 0 1845 2132 138 0 0 94 WR-SR	0.9 0.1 1.3 10.8 10.8 10.8 10.8 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 - 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-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-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C	208 40 473 473 0 449 0 0 0 0 0 735 0 283 159 141 986 207 20 31 99 48 0 0 0 0 467 0 1	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 0 WR-NR 1016 0 1845 2132 138 0 0 94 WR-SR	0.9 0.1 1.3 10.8 10.8 10.8 10.8 10.0 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8
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 - 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-ARANPUR 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	D/C	208 40 473 0 449 0 0 0 0 0 0 0 0 0 0 0 0 0	285 59 ER-NER 0 NER-NR 1851 0 1552 2526 1652 918 0 1384 832 173 476 0 347 86 119 0 0 WR-NR 1016 0 1845 2132 138 0 0 94 WR-SR	0.9 0.1 1.3 10.8 10.8 10.8 10.8 10.0 0.0 10.1 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	1 0.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8