

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: 01st Nov 2019

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.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 31.10.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-अक्टूबर-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 31st Oct 2019, is available at the NLDC website.

धन्यवाद,

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

Date of Reporting Report for previous day 1-Nov-19

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)	42134	41012	34052	18983	2485	138666
Peak Shortage (MW)	505	0	0	74	40	619
Energy Met (MU)	887	914	741	371	44	2957
Hydro Gen (MU)	140	49	165	80	16	450
Wind Gen (MU)	2	35	59			96
Solar Gen (MU)*	29.28	21.3	47.35	1.88	0.04	100
Energy Shortage (MU)	14.1	0.0	0.0	0.2	0.5	14.9
Maximum Demand Met during the day	44353	42023	35825	19221	2633	143527
MW) & time (from NLDC SCADA)	18:43	18:37	18:32	18:27	17:34	18:37

B. Frequency Profile (%) Region All India FVI <49.7 49.7-49.8 49.8-49.9 <49.9 49.9-50.05 > 50.05 0.028

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	5469	0	112.4	60.0	-1.6	29	0.0
	Haryana	5951	0	119.5	117.6	0.4	251	0.0
	Rajasthan	10464	0	209.7	70.4	-2.0	240	0.0
	Delhi	3464	0	67.6	52.8	-1.0	96	0.0
NR	UP	14721	0	273.2	122.2	0.1	508	3.9
NIX	Uttarakhand	1594	0	31.9	20.9	-0.2	145	0.0
	HP	1430	0	26.4	16.0	0.1	187	0.0
	J&K	2223	556	42.8	36.3	-1.4	152	10.2
	Chandigarh	195	0	3.6	3.5	0.1	17	0.0
	Chhattisgarh	3474	0	75.1	26.9	-0.4	211	0.0
WR SR	Gujarat	11481	0	261.5	64.5	4.0	450	0.0
	MP	8196	0	175.0	119.8	-1.6	283	0.0
	Maharashtra	16891	0	360.6	120.7	-2.2	457	0.0
	Goa	541	0	12.3	11.5	0.2	67	0.0
	DD	307	0	6.8	6.2	0.6	85	0.0
	DNH	730	0	17.0	16.9	0.1	54	0.0
	Essar steel	301	0	5.6	5.7	-0.1	298	0.0
	Andhra Pradesh	7149	0	148.7	52.6	-1.5	277	0.0
	Telangana	7188	0	148.6	39.0	-0.3	364	0.0
	Karnataka	7281	0	146.8	18.5	-1.1	543	0.0
3N	Kerala	3031	0	60.6	42.9	0.9	152	0.0
31.	Tamil Nadu	11138	0	230.7	129.0	-2.3	585	0.0
	Pondy	315	0	6.1	6.5	-0.4	82	0.0
	Bihar	4675	0	82.6	80.7	1.4	200	0.0
	DVC	2855	0	61.3	-9.6	1.3	50	0.0
ER	Jharkhand	1145	0	23.8	15.2	-0.5	70	0.2
	Odisha	3878	0	78.3	1.6	0.6	120	0.0
	West Bengal	6822	0	123.7	44.3	0.1	150	0.0
	Sikkim	100	0	1.1	1.3	-0.2	9	0.0
	Arunachal Pradesh	120	1	1.8	1.6	0.1	23	0.0
	Assam	1590	60	26.5	19.6	1.3	134	0.5
	Manipur	145	1	2.4	2.2	0.2	27	0.0
NER	Meghalaya	345	0	6.0	0.8	0.3	51	0.0
	Mizoram	98	2	1.7	0.9	0.4	8	0.0
	Nagaland	123	1	2.0	2.0	-0.3	11	0.0
	Tripura	259	1	3.8	3.1	-0.4	26	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	17.4	-0.2	-19.2
Day peak (MW)	901.6	-187.8	-840.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	233.3	-231.5	68.2	-66.2	-3.6	0.2
Actual(MU)	222.7	-233.1	59.7	-51.9	-1.1	-3.7
O/D/U/D(MU)	-10.6	-1.6	-8.6	14.3	2.5	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2627	18673	11372	3080	563	36315
State Sector	11621	23313	13443	6680	19	55076
Total	14248	41985	24815	9760	583	91391

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	439	968	265	344	11	2026
Lignite	20	15	45	0	0	80
Hydro	140	50	165	80	16	450
Nuclear	28	34	60	0	0	121
Gas, Naptha & Diesel	24	35	16	0	24	99
RES (Wind, Solar, Biomass & Others)	38	60	137	2	0	237
Total	689	1162	688	425	50	3014

Share of RES in total generation (%)	5.52	5.18	19.92	0.44	0.08	7.87
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.93	12.34	52.66	19.17	31.03	26.84

H. Diversity Factor
All India Demand Diversity Factor
1.004
Diversity factor = Sum of regional maximum demands / All India maximum demand

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

		<u>IN'</u>	TER-REGI	ONAL EXCH	ANGES	Date of l	Reporting :	1-Nov-19
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	export of	ER (With NR)	D/G	0	272	0.0	1.6	4.6
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	9	373 272	0.0	4.6 2.8	-4.6 -2.8
3	70010	GAYA-BALIA	S/C	0	321	0.0	6.0	-6.0
4	HVDC	ALIPURDUAR-AGRA	-	0	401	0.0	9.3	-9.3
5		PUSAULI B/B	S/C	0	198	0.0	5.0	-5.0
6	4	PUSAULI-VARANASI	S/C	0	199	0.0	4.0	-4.0
7 8	-	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	S/C D/C	0	77 582	0.0	0.8 7.5	-0.8 -7.5
9	400 kV	PATNA-BALIA	Q/C	0	919	0.0	15.8	-15.8
10	1	BIHARSHARIFF-BALIA	D/C	2	145	0.0	1.8	-1.8
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	160	38	2.0	0.0	2.0
13	220 kV	PUSAULI-SAHUPURI	S/C	24	41	0.0	0.3	-0.3
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
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
Impout/E	evnout of	ED (With WD)			ER-NR	2.4	57.7	-55.3
-	Aport of	ER (With WR)						
18	765 bV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1196	0	22.0	0.0	22.0
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	771	0	12.0	0.0	12.0
20		JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	D/C Q/C	103 223	64 13	0.8 2.6	0.0	0.8 2.6
22	400 kV	RANCHI-SIPAT	D/C	242	0	4.7	0.0	4.7
23	****	BUDHIPADAR-RAIGARH	S/C	7	56	0.0	0.6	-0.6
24	220 kV	BUDHIPADAR-KORBA	D/C	102	0	1.7	0.0	1.7
					ER-WR	43.7	0.6	43.2
Import/E	export of	ER (With SR)						
25		ANGUL-SRIKAKULAM	D/C	0.0	1619.0	0.0	24.1	-24.1
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	421.0	0.0	9.9	-9.9
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	795.0	0.0	17.3	-17.3
28	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	D/C S/C	36.0 1.0	211.0 0.0	0.0	2.6 0.0	-2.6 0.0
29	220 KV	BALIWELA-UFFER-SILERRU	3/C	1.0	ER-SR	0.0	51.3	-51.3
Import/E	Export of	ER (With NER)				0.0	0110	0110
30	Ĺ	BINAGURI-BONGAIGAON	D/C	0	388	0.0	3.8	-4
31	400 kV	ALIPURDUAR-BONGAIGAON	D/C	32	412	0.0	2.6	-3
32	220 1 17			0	102	0.0	1.1	-1
34	220 kV	ALIPURDUAR-SALAKATI	D/C		102	0.0	1.1	-1
		•	D/C		ER-NER	0.0	7.4	-7.4
Import/E	export of	NER (With NR)	D/C		ER-NER	0.0	7.4	-7.4
		•	D/C	0	ER-NER	0.0	7.4 9.0	-7.4 -9.0
Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA	D/C -	0	ER-NER	0.0	7.4	-7.4
Import/E 33 Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	-		535 NER-NR	0.0	9.0 9.0	-7.4 -9.0 -9.0
Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA	D/C - D/C D/C	0	ER-NER	0.0	9.0 9.0 9.0	-7.4 -9.0 -9.0 -18.9
Import/E 33 Import/E 34	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C		535 NER-NR	0.0 0.0 0.0	9.0 9.0	-7.4 -9.0 -9.0
Import/E 33 Import/E 34 35	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C	0 230	535 NER-NR 1500 0	0.0 0.0 0.0 0.0 6.1	9.0 9.0 9.0 18.9	-7.4 -9.0 -9.0 -18.9 6.1
Import/E 33 Import/E 34 35 36 37 38	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG	D/C D/C D/C	0 230 0	535 NER-NR 1500 0 1456	0.0 0.0 0.0 0.0 6.1 0.0	7.4 9.0 9.0 18.9 0.0 27.5	-7.4 -9.0 -9.0 -18.9 6.1 -27.5
Import/E 33 Import/E 34 35 36 37 38 39	Export of HVDC	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	0 230 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815	0.0 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7	-7.4 -9.0 -9.0 -18.9 -6.1 -27.5 -47.4 -25.5 -33.7
Import/E 33 Import/E 34 35 36 37 38 39 40	Export of HVDC AVDC	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 S/C	0 230 0 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 8.6	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0	-7.4 -9.0 -9.0 -18.9 -6.1 -27.5 -47.4 -25.5 -33.7 8.6
Import/E 33 Import/E 34 35 36 37 38 39 40 41	Export of HVDC AVDC	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	D/C D/C D/C D/C D/C D/C D/C S/C S/C	0 230 0 0 0 0 0 430	535 NER-NR 1500 0 1456 2366 1227 815 0 1340	0.0 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2	-7.4 -9.0 -9.0 -18.9 -6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42	Export of HVDC AVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGG-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA	D/C D/C D/C D/C D/C D/C D/C S/C S/C D/C	0 230 0 0 0 0 0 430 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	Export of HVDC AVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGG-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C	0 230 0 0 0 0 0 430 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44	Export of HVDC AVDC	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	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	0 230 0 0 0 0 0 430 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	Export of HVDC Export of HVDC - 765 kV	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 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	0 230 0 0 0 0 430 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44	Export of HVDC Export of HVDC - 765 kV	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-ANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	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	0 230 0 0 0 0 430 0 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	Export of HVDC Export of HVDC - 765 kV	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 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 D/C	0 230 0 0 0 0 430 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 8.6 0.0 0.0 0.0 22.6	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of HVDC Export of HVDC - 765 kV	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-KANKHOLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	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	0 230 0 0 0 0 430 0 0 0 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50	0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 22.6 0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2	-7.4 -9.0 -9.0 -18.9 -6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Export of HVDC Export of HVDC - 765 kV	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	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 15 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50 82	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 20.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Export of HVDC Export of HVDC - 765 kV	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-MORAK MEHGAON-AURAIYA	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 1 15 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Export of HVDC Export of HVDC 765 kV 400 kV	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-JURAIYA GWALIOR-SAWAI MADHOPUR	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	0 230 0 0 0 0 430 0 0 0 0 0 979 0 15 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50 82 5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.0 0.0 0.0 0.0 0.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of	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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIAM GWALIOR-SAWAI MADHOPUR WR (With SR)	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	0 230 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50 82 5 29 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC	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 CHITTOR-GARH-BANASKANTHA ZERDA-BHINNAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50 82 5 29 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 2 0.0 2 9.7 1.3 4.0 0.0 2 0.0 0.0 0.0 0.0 0.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of	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-ABHINNAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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 S/C S/C S/C S/C S/C S/C S/C S	0 230 0 0 0 0 0 430 0 0 0 0 0 979 0 15 0 64 27 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50 82 5 29 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 20.5 8.3 0.0 20.5 8.3 0.0 20.5 8.3 0.0 20.5 8.3 0.0 20.5 8.3 0.0 20.5 8.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC	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-KABHNMAL 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	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	0 230 0 0 0 0 0 430 0 0 0 0 0 979 0 15 0 64 27 0	535 NER-NR 1500 0 1456 2366 1227 815 0 1340 896 97 265 0 256 50 82 5 29 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 20.5 4.0 0.0 20.5 4.0 0.0 20.5 4.0 4.0 0.0 20.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC LINK 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWATIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJAL-RUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILIERU SOLAPUR-RAICHUR	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	0 230 0 0 0 0 0 430 0 0 0 0 0 979 0 15 0 64 27 0	### ER-NER 535 NER-NR 1500	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.0 29.2 9.7 1.3 4.0 0.0 2 0.0 0.0 0.0 0.0 0.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC LINK	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-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHARSWATI B/B BARSUR-L-SILLERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 0.0 2 0.0 0.0 0.0 0.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC LINK - 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWATOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WAR MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 0.0 2 0.0 0.0 0.0 0.0 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7
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	Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC LINK 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GATION-ORAI SATINA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUIALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WALIANA MALANPUR-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 0.3 0.0 200.5 8.3 0.0 6.2 25.7 0.0 0.0 1.2	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7 -8.3 0.0 -4.1 -25.7 12.4 0.0 -1.2
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC LINK - 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWATOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WAR MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### STATES STATES	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 200.5 8.3 0.0 6.2 25.7 0.0 0.0 1.2 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7 -8.3 0.0 -4.1 -25.7 12.4 0.0 -1.2 0.7
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC LINK - 765 kV	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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WILL 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 0.3 0.0 200.5 8.3 0.0 6.2 25.7 0.0 0.0 1.2	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7 -8.3 0.0 -4.1 -25.7 12.4 0.0 -1.2
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC LINK - 765 kV	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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAI GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	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	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 200.5 8.3 0.0 6.2 25.7 0.0 0.0 1.2 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7 -8.3 0.0 -4.1 -25.7 12.4 0.0 -1.2 0.7 -26.3
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	Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC LINK - 765 kV	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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WILL 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 230 0 0 0 0 0 430 0 0 0 0 0 0 0 0 0 0 0 0	### ER-NER 535 NER-NR 1500 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.4 9.0 9.0 9.0 18.9 0.0 27.5 47.4 25.5 33.7 0.0 29.2 9.7 1.3 4.0 0.0 2 0.5 0.9 0.0 200.5 8.3 0.0 6.2 25.7 0.0 0.0 1.2 0.0	-7.4 -9.0 -9.0 -18.9 6.1 -27.5 -47.4 -25.5 -33.7 8.6 -29.2 -9.7 -1.3 -4.0 22.6 -2 -0.5 -0.9 0.4 -0.3 0.0 -162.7 -8.3 0.0 -4.1 -25.7 12.4 0.0 -1.2 0.7