

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: 08th Feb 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 07.02.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th 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 8-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)	48077	47958	41389	18810	2413	158647
Peak Shortage (MW)	627	0	0	0	43	670
Energy Met (MU)	1004	1171	1051	368	42	3636
Hydro Gen (MU)	125	43	90	34	5	298
Wind Gen (MU)	11	48	28			87
Solar Gen (MU)*	38.53	25.30	85.95	1.35	0.04	151
Energy Shortage (MU)	14.6	0.0	0.0	0.0	0.6	15.2
Maximum Demand Met during the day (MW) & time	50955	55427	49931	18699	2487	174661
(from NLDC SCADA)	09:29	11:01	08:19	18:20	18:16	09:24

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	0.34	6.69	7.03	72.92	20.06

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	6280	0	126.0	66.5	-0.7	86	0.0
	Haryana	6895	0	133.0	91.0	0.1	223	0.1
	Rajasthan	14198	0	249.7	76.3	-3.0	176	0.0
NR	Delhi	4434	0	73.4	56.5	0.6	340	0.0
	UP	16191	150	295.5	122.8	-0.1	740	1.9
	Uttarakhand	2233	0	40.1	22.8	0.1	147	0.0
	HP	1732	0	31.1	24.0	-0.3	128	0.0
	J&K(UT) and Ladakh(UT)	2508	627	51.1	45.1	-0.2	339	12.6
	Chandigarh	267	0	4.2	3.9	0.3	31	0.0
	Chhattisgarh	3313	0	71.8	26.4	-1.4	352	0.0
	Gujarat	15885	0	337.3	88.0	3.9	544	0.0
	MP	14555	0	267.7	133.1	0.8	460	0.0
WR	Maharashtra	22086	0	452.7	138.3	-3.3	572	0.0
WK	Goa	458	0	9.6	9.4	-0.3	28	0.0
	DD	329	0	7.3	6.8	0.5	47	0.0
	DNH	761	0	17.9	17.9	0.0	38	0.0
	Essar steel	786	0	6.2	6.3	-0.1	265	0.0
	Andhra Pradesh	9304	0	188.1	67.6	-0.1	541	0.0
	Telangana	11527	0	226.7	117.9	0.1	399	0.0
SR	Karnataka	12618	0	238.3	74.6	-0.8	830	0.0
JK.	Kerala	3676	0	75.4	57.1	1.7	201	0.0
	Tamil Nadu	14746	0	314.7	167.1	1.0	604	0.0
	Pondy	368	0	7.5	7.6	0.0	58	0.0
	Bihar	4435	0	79.6	74.1	1.5	200	0.0
	DVC	3166	0	67.0	-38.0	-0.4	250	0.0
ER	Jharkhand	1287	0	25.7	20.1	0.3	70	0.0
EN	Odisha	3911	0	72.0	5.6	0.0	180	0.0
	West Bengal	6389	0	121.4	35.5	0.0	170	0.0
	Sikkim	135	0	2.1	1.9	0.2	25	0.0
	Arunachal Pradesh	124	3	2,2	2.2	-0.1	33	0.0
	Assam	1359	37	23.9	20.1	1.1	159	0.3
	Manipur	194	4	2.3	3.1	-0.7	45	0.0
NER	Meghalaya	386	2	6.7	6.1	0.0	38	0.3
	Mizoram	108	4	1.6	1.8	-0.5	24	0.0
	Nagaland	116	3	2.1	2.1	-0.1	10	0.0
	Tripura	223	11	3.7	1.6	-0.1	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-11.2	-7.5
Day peak (MW)	405.9	-531.3	-571.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.9	-274.9	133.5	-102.4	6.8	0.0
Actual(MU)	233.8	-295.1	163.0	-103.7	4.0	2.0
O/D/U/D(MU)	-3.1	-20.2	29.5	-1.3	-2.8	2.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5590	14222	7872	1855	737	30276
State Sector	12265	14690	6410	5370	11	38746
Total	17855	28911	14282	7225	748	69022

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	518	1255	550	466	12	2802
Lignite	18	16	53	0	0	87
Hydro	125	43	90	34	5	298
Nuclear	24	33	34	0	0	91
Gas, Naptha & Diesel	32	42	16	0	23	114
RES (Wind, Solar, Biomass & Others)	79	82	149	1	0	311
Total	797	1471	892	502	41	3702

Share of RES in total generation (%)	9.91	5.55	16.66	0.27	0.10	8.39
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.66	10.68	30.58	7.06	12.74	18.88

H. All India Demand Diversity Factor

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Based on Regional Max Demands	1.016
Based on State Max Demands	1.071

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.}$

		INTER-REGIONAL EXCHANGES Date of Reporting:						
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
		ER (With NR)			_			
5	HVDC	ALIPURDUAR-AGRA PUSAULI B/B	S/C	0	378	0.0	7.5	-7.5
1		GAYA-VARANASI	D/C	0	786	0.0	8.5	-8.5
2	765kV	SASARAM-FATEHPUR	S/C	51	260	0.0	2.4	-2.4
3		GAYA-BALIA	S/C	0	597	0.0	8.9	-8.9
6	_	PUSAULI-VARANASI	S/C	0	274	0.0	4.8	-4.8
7 8		PUSAULI -ALLAHABAD	S/C D/C	139	141	0.0	0.9	-2.4 -0.9
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	O/C	0	284 884	0.0	14.2	-0.9
10	1	BIHARSHARIFF-BALIA	D/C	0	355	0.0	5.0	-5.0
11		MOTIHARI-GORAKHPUR	D/C	0	508	0.0	9.0	-9.0
12		BIHARSHARIFF-VARANASI	D/C	134	229	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	2	82	0.0	1.0	-1.0
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
Imnort/E	Export of	ER (With WR)			ER-NR	0.7	65.5	-64.7
-	Aport 01	<u> </u>		221				
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1644	0	26.4	0.0	26.4
19	.05 KV	NEW RANCHI-DHARAMJAIGARH	D/C	941	0	7.6	0.0	7.6
20		JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	D/C Q/C	322 141	0 251	2.8 0.0	0.0 1.2	2.8 -1.2
22	400 kV	RANCHI-SIPAT	D/C	306	0	2.9	0.0	2.9
23		BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0
24	220 kV	BUDHIPADAR-KORBA	D/C	94	6	0.9	0.0	0.9
					ER-WR	40.6	1.2	39.4
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	576.0	0.0	12.9	-12.9
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2457.0	0.0	48.3	-48.3
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2827.0	0.0	52.7	-52.7
28	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	D/C S/C	1.0	0.0	0.0	0.0	-3.4 0.0
29	220 KV	BALIWELA-UFFER-SILERRU	3/C	1.0	ER-SR	0.0	114.0	-114.0
Import/F	Export of	ER (With NER)						
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	547	0.0	6.9	-7
31	400 KV	ALIPURDUAR-BONGAIGAON	D/C	0	713	0.0	9.0	-9
32				0				_
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	132	0.0	1.7	-2
	ı		D/C	0	132 ER-NER	0.0	1.7 17.6	-2 -17.6
Import/E	Export of	NER (With NR)			ER-NER	0.0	17.6	-17.6
	ı		D/C	0	704	0.0	13.0	-17.6
Import/F	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA			ER-NER	0.0	17.6	-17.6
Import/F	Export of HVDC	NER (With NR)			704	0.0	13.0	-17.6
Import/F	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	-	0	ER-NER 704 NER-NR	0.0	17.6 13.0 13.0	-17.6 -13.0 -13.0
Import/F 33 Import/F 34	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C	0	704 NER-NR	0.0 0.0 0.0	17.6 13.0 13.0 26.0	-17.6 -13.0 -13.0 -26.0
Import/F 33 Import/F 34 35	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C	0 0 445 0	704 NER-NR 0 487 2378 2638	0.0 0.0 0.0 0.0 2.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7
Import/F 33 Import/F 34 35 36 37 38	Export of HVDC	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	0 445 0 0	704 NER-NR 0 487 2378 2638 1416	0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6
Import/F 33 Import/F 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 0 445 0 0 0	704 NER-NR 0 487 2378 2638 1416 928	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8
Import/F 33 Import/F 34 35 36 37 38 39 40	Export of HVDC HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI	D/C D/C D/C D/C D/C D/C D/C S/C	0 445 0 0 0 0 0 708	704 NER-NR 0 487 2378 2638 1416 928 0	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6
Import/F 33 Import/F 34 35 36 37 38 39 40 41	Export of HVDC HVDC	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	0 445 0 0 0 0 0 708	704 NER-NR 0 487 2378 2638 1416 928 0 1420	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42	Export of HVDC HVDC	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 S/C S/C D/C	0 445 0 0 0 0 0 708 0 366	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	Export of HVDC Export of HVDC - 765 kV	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 D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C	0 0 445 0 0 0 0 708 0 366 166	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44	Export of HVDC 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-KANKROLI ZERDA -BHINMAL	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C	0 445 0 0 0 0 0 708 0 366 166 164	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	Export of HVDC Export of HVDC - 765 kV	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 D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C	0 0 445 0 0 0 0 708 0 366 166	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9
Import/F 33 Import/F 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	0 445 0 0 0 0 0 708 0 366 166 164 997	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3
Import/F 33 Import/F 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 SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C D/C	0 445 0 0 0 0 0 708 0 366 166 164 997 109	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1
Import/F 33 Import/F 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-KANKROLI 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 0 445 0 0 0 0 708 0 366 166 164 997 109 39	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2
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	0 445 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59	704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94	0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 1 0.3 0.9	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8
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 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-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 0 445 0 0 0 0 708 0 366 166 164 997 109 39 41 109	0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 23 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 2.8 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0
Import/F 33 Import/F 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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA 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	0 445 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 23	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 1 0.3 0.9 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7
Import/F 33 Import/F 34 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F	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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	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	0 445 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0	0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 233 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13.0 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
Import/F 33 Import/F 34 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52	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-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 445 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0	### Company of the co	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 0.0 203.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
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	Export of HVDC Export of HVDC 765 kV 400 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-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	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 0 445 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0	### Company of Company	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 1 0.3 0.9 0.0 0.0 0.0 203.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 -0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
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 132kV	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 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 0 445 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0	### Company of Company	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 1 0.3 0.9 0.0 0.0 0.0 203.0	-17.6 -13.0 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
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	Export of HVDC Export of HVDC 765 kV 400 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-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	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 0 445 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0	### Company of Company	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
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	Export of HVDC Export of HVDC 765 kV 220 kV 132kV 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 SATTNA-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	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 0 445 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 23 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 1 0.3 0.9 0.0 0.0 0.0 203.0	-17.6 -13.0 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
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	Export of HVDC Export of HVDC 765 kV 220 kV 132kV 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 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 445 0 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0 0 0 11 0 627	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 23 0 WR-NR 1006 0 2482 2889 30	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIANASMANTHA GWALIOR-ORAI SATNA-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-BANDUR BHANPURA-BANDUR BHANPURA-BANDUR BHANPURA-BURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-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 0 445 0 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0 0 0 11 0 627 0	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 23 0 WR-NR 1006 0 2482 2889 30 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8 -24.1 0.0 -33.2 -45.6 6.7 0.0
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L. SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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 0 445 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0 0 0 11 0 627 0 1	### Company of Company	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6 0.0 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8 -24.1 0.0 -33.2 -45.6 6.7 0.0 0.0
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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 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-CHIKODI PONDA-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 0 445 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0 0 0 11 0 627 0 1	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 233 0 WR-NR 1006 0 2482 2889 30 0 0 89 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6 0.0 0.0 0.0 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8 -24.1 0.0 -33.2 -45.6 6.7 0.0 0.0 1.5
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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 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-CHIKODI PONDA-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	0 445 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0 0 11 0 627 0 1	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 233 0 WR-NR 1006 0 2482 2889 30 0 0 89 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6 0.0 0.0 0.0 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8 -24.1 0.0 -33.2 -45.6 6.7 0.0 0.0 1.5
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 59	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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 SATNA-ORAI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHANPURA-NICAMBAD SOLAPUR-RICHUR WARDHA-NIZAMBAD KOLHAPUR-CHIKODI PONDA-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	0 445 0 0 0 0 0 0 708 0 366 166 164 997 109 39 41 109 59 0 0 11 0 627 0 1	ER-NER 704 NER-NR 0 487 2378 2638 1416 928 0 1420 676 126 417 0 354 64 94 0 233 0 WR-NR 1006 0 2482 2889 30 0 0 89 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.6 13.0 13.0 26.0 2.2 41.1 43.7 22.6 31.8 0.0 28.6 2.4 0.0 2.2 0.0 1 0.3 0.9 0.0 0.0 203.0 24.1 0.0 33.2 45.6 0.0 0.0 0.0 0.0 0.0	-17.6 -13.0 -13.0 -26.0 -0.2 -41.1 -43.7 -22.6 -31.8 11.6 -28.6 -2.4 0.9 -2.2 23.3 -1 0.2 -0.8 1.1 0.7 0.0 -162.8 -24.1 0.0 -33.2 -45.6 6.7 0.0 0.0 1.5 -94.6