

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: 03rd Mar 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.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 02.03.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-मार्च-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 02nd Mar 2020, is available at the NLDC website.

धन्यवाद,

Report for previous day Date of Reporting

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)	42209	50560	44448	17032	2334	156583
Peak Shortage (MW)	600	0	0	0	89	689
Energy Met (MU)	882	1199	1090	354	40	3565
Hydro Gen (MU)	136	35	100	30	4	306
Wind Gen (MU)	11	34	19			64
Solar Gen (MU)*	40.40	26.29	84.65	1.41	0.05	153
Energy Shortage (MU)	9.8	0.0	0.0	0.0	0.9	10.7
Maximum Demand Met during the day (MW) & time	44471	56177	51170	18061	2369	166819
(from NLDC SCADA)	08:38	11:26	16:01	18:47	18:19	09:19

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	0.046	0.00	1.03	9.03	10.06	73.66	16.28

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	5444	0	111.2	72.2	-1.2	54	0.0
	Haryana	5941	0	110.4	91.3	1.6	274	0.4
	Rajasthan	13285	0	236.5	68.1	0.8	546	0.0
NR	Delhi	3310	0	61.5	46.1	-1.0	187	0.0
	UP	13628	0	250.8	120.1	-1.1	684	0.0
	Uttarakhand	1798	0	33.8	14.8	0.4	92	0.0
	HP	1642	0	27.5	20.2	-0.1	176	0.0
	J&K(UT) and Ladakh(UT)	2401	600	46.8	42.1	-1.2	229	9.3
	Chandigarh	185	0	3.1	3.4	-0.3	10	0.0
	Chhattisgarh	3910	0	91.3	39.1	3.8	323	0.0
	Gujarat	16462	0	360.1	100.3	3.6	468	0.0
	MP	11531	0	226.7	107.4	-2.3	327	0.0
WR	Maharashtra	22839	0	476.6	156.1	-1.4	503	0.0
WK	Goa	523	0	10.9	10.8	-0.4	27	0.0
	DD	325	0	7.1	6.9	0.2	35	0.0
	DNH	802	0	18.6	18.2	0.4	96	0.0
	Essar steel	775	0	7.3	6.9	0.4	251	0.0
	Andhra Pradesh	9750	0	195.3	80.1	0.6	463	0.0
	Telangana	12741	0	248.6	138.6	0.7	691	0.0
SR	Karnataka	11745	0	237.2	75.6	-1.3	416	0.0
JI.	Kerala	3930	0	78.9	61.1	1.4	274	0.0
	Tamil Nadu	14799	0	323.0	181.7	0.5	440	0.0
	Pondy	368	0	7.5	7.9	-0.4	28	0.0
	Bihar	3878	0	72.1	66.4	-0.8	176	0.0
	DVC	3029	0	63.8	-37.8	-0.2	246	0.0
ER	Jharkhand	1284	0	24.2	16.6	-1.6	35	0.0
	Odisha	3829	0	72.4	2.0	0.2	224	0.0
	West Bengal	6531	0	120.1	33.9	-0.3	189	0.0
	Sikkim	163	0	1.4	1.6	-0.1	34	0.0
-	Arunachal Pradesh	118	2	2.1	2.0	0.1	35	0.0
	Assam	1320	71	22.5	18.4	0.5	101	0.8
	Manipur	190	3	2.7	2.6	0.0	34	0.0
NER	Meghalaya	335	4	5.6	4.1	0.2	226	0.1
	Mizoram	101	3	1.6	1.5	-0.2	14	0.0
	Nagaland	114	3	2.1	2.0	0.1	4	0.0
	Tripura	230	11	3.5	1.7	0.1	92	0.0

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

	,		
	Bhutan	Nepal	Bangladesh
Actual(MU)	1.9	-10.6	-16.0
Day peak (MW)	269.2	-564.5	-1026.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.0	-272.8	171.5	-106.8	6.1	0.0
Actual(MU)	182.9	-281.1	187.3	-108.1	8.3	-10.7
O/D/U/D(MU)	-19.1	-8.3	15.8	-1.3	2.2	-10.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6243	12490	6812	750	1090	27384
State Sector	15390	13859	7625	5002	11	41887
Total	21633	26348	14437	5752	1101	69271

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	416	1254	563	468	11	2712
Lignite	22	15	48	0	0	86
Hydro	136	35	100	30	4	306
Nuclear	23	37	45	0	0	104
Gas, Naptha & Diesel	31	70	18	0	21	139
RES (Wind, Solar, Biomass & Others)	78	72	139	1	0	291
Total	705	1484	913	499	37	3638

Share of RES in total generation (%)	11.07	4.88	15.21	0.29	0.14	7.99
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.55	9.73	31.09	6.21	12.34	19.25

H. All India Demand Diversity Factor

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Based on Regional Max Demands	1.033
Based on State Max Demands	1.075

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

3-Mar-20

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

1		IN	FER-REGI	ONAL EXCH	ANGES	Date of 1	Reporting :	3-Mar-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	0 249	0.0	6.1	0.0 -6.1
1		GAYA-VARANASI	D/C	154	610	0.0	5.0	-5.0
2	765kV	SASARAM-FATEHPUR	S/C	171	206	0.0	0.6	-0.6
3		GAYA-BALIA	S/C	0	368	0.0	5.2	-5.2
6		PUSAULI-VARANASI	S/C	0	229	0.0	4.5	-4.5
7	_	PUSAULI -ALLAHABAD	S/C	0	108	0.0	1.4	-1.4
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	0	413 748	0.0	6.3	-1.4 -6.3
10	400 K	BIHARSHARIFF-BALIA	D/C	46	300	0.0	2.7	-0.3
11	-	MOTIHARI-GORAKHPUR	D/C	0	553	0.0	9.5	-9.5
12		BIHARSHARIFF-VARANASI	D/C	228	207	1.6	0.0	1.6
13	220 kV	PUSAULI-SAHUPURI	S/C	0	153	0.0	2.6	-2.6
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	0.0	0.0	0.0
Import/F	Evnert of	FR (With WP)			ER-NR	2.0	45.2	-43.2
-	export of	ER (With WR)	 		1			1
18	745137	JHARSUGUDA-DHARAMJAIGARH	Q/C	1625	0	27.7	0.0	27.7
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	880	6	8.8	0.0	8.8
20		JHARSUGUDA-DURG	D/C	0 181	22 251	0.0	2.0	-0.2 -2.0
22	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	243	251	3.2	0.0	-2.0 3.2
23		BUDHIPADAR-RAIGARH	S/C	44	75	0.0	0.8	-0.8
24	220 kV	BUDHIPADAR-KORBA	D/C	144	0	2.3	0.0	2.3
	L.		l		ER-WR	42.0	3.0	39.0
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	695.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2487.0	0.0	52.6	-52.6
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	3206.0	0.0	63.5	-63.5
28	400 kV	TALCHER-I/C	D/C	0.0	968.0	0.0	10.0	-10.0
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0 ER-SR	0.0	0.0 132.3	0.0 -132.3
Import/F	Export of	ER (With NER)			ER-5R	0.0	132.3	-132.3
30	T .	BINAGURI-BONGAIGAON	D/C	0	514	0.0	7.6	-8
31	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	774	0.0	11.0	-11
22								
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	136	0.0	1.9	-2
	ı		D/C	0	136 ER-NER	0.0	1.9 20.4	-2 -20.4
Import/E	Export of	NER (With NR)			ER-NER	0.0	20.4	-20.4
	ı		D/C	0	ER-NER 502	0.0	12.0	-12.0
Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA			ER-NER	0.0	20.4	-20.4
Import/F	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	-	0	ER-NER 502 NER-NR	0.0	20.4 12.0 12.0	-20.4 -12.0 -12.0
Import/F 33 Import/F 34	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C	0	502 NER-NR	0.0 0.0 0.0	12.0 12.0 12.0	-20.4 -12.0 -12.0 -5.0
Import/F	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	-	0	ER-NER 502 NER-NR	0.0	20.4 12.0 12.0	-20.4 -12.0 -12.0
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 0 359	502 NER-NR 797 103	0.0 0.0 0.0 0.0	12.0 12.0 12.0 5.0 2.3	-20.4 -12.0 -12.0 -5.0 -1.8
Import/E 33 Import/E 34 35 36	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 0 359 0	502 NER-NR 797 103 1150	0.0 0.0 0.0 0.0 0.5 0.0	12.0 12.0 12.0 5.0 2.3 28.5	-20.4 -12.0 -12.0 -5.0 -1.8 -28.5
Import/F 33 Import/F 34 35 36 37	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	D/C D/C D/C D/C	0 0 359 0	502 NER-NR 797 103 1150 2483 1528 921	0.0 0.0 0.0 0.0 0.5 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9	-20.4 -12.0 -12.0 -5.0 -1.8 -28.5 -43.9 -23.0 -30.5
Import/F 33 Import/F 34 35 36 37 38 39 40	Export of 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	0 359 0 0 0 0 0	502 NER-NR 797 103 1150 2483 1528 921 0	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0	-20.4 -12.0 -12.0 -5.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7
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 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 S/C S/C	0 359 0 0 0 0 0 567	502 NER-NR 797 103 1150 2483 1528 921 0	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1	-20.4 -12.0 -12.0 -5.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1
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 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 S/C S/C D/C	0 359 0 0 0 0 0 567 0	502 NER-NR 797 103 1150 2483 1528 921 0 1436 838	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	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	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C	0 359 0 0 0 0 567 0 65 114	502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0
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	0 359 0 0 0 0 0 567 0 65 114	ER-NER 502 NER-NR 103 1150 2483 1528 921 0 1436 838 135 312	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0	-20.4 -12.0 -12.0 -5.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9
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	0 359 0 0 0 0 567 0 65 114 136	ER-NER 502 NER-NR 103 1150 2483 1528 921 0 1436 838 135 312 0	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5
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 CHITTORGARH-BANASKANTHA 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	0 359 0 0 0 0 567 0 65 114 136 966 127	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -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	0 359 0 0 0 0 567 0 65 114 136 966 127 3	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3
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 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 D/C S/C S/C S/C S/C S/C D/C	0 359 0 0 0 0 567 0 65 114 136 966 127 3	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1 0.6 1.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2
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	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	0 359 0 0 0 0 567 0 65 114 136 966 127 3	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3
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	0 359 0 0 0 0 567 0 65 114 136 966 127 3 17 72	502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12	0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	20.4 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1.3 0.0	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7
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 GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-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	0 359 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36	ER-NER 502 NER-NR 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1.3 0.0 0.1	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 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 GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA 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	0 359 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1 0.6 1.3 0.0 0.1 0.0 172.3	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5
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	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	0 359 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1 0.6 1.3 0.0 0.1 172.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5
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	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-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	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 0 359 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 3312 0 302 93 131 12 35 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1.0 0.6 1.3 0.0 0.1 0.1 0.0 172.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 -0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5
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-KANKROLI 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	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 0 359 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR 508 0 2354	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 1.9 0.0 1.0 0.0 1.3 0.0 0.1 0.0 172.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5
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	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-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 0 359 0 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0	ER-NER 502 NER-NR 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR 508	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 2.3 28.5 43.9 23.0 30.5 0.0 1.9 0.0 1 0.6 1.3 0.0 0.1 0.0 172.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5
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	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-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHASWATI B/B BHASWATI B/B BHASWATI B/B BHASWATI SILIERU 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 0 359 0 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 804	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR 508 0 2354 3508 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 2.3 28.5 43.9 23.0 30.5 0.0 29.1 5.4 0.0 1.9 0.0 1.0 0.1 0.0 172.3 12.2 0.0 44.1 61.2 0.0	-20.4 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5
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	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 GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANDAK 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 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 0 359 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 0 804	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR 508 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 2.3 28.5 43.9 23.0 30.5 0.0 1.9 0.0 1 0.6 1.3 0.0 0.1 1.2.2 0.0 44.1 61.2 0.0 0.0	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5 -12.2 0.0 -44.1 -61.2 13.3 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 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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WALIYA 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 0 359 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 0 0 1	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR 508 0 2354 3508 0 0 82	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 1.9 0.0 1.9 0.0 1.0 1.3 0.0 172.3 12.2 0.0 44.1 61.2 0.0 0.0 1.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5 -12.2 0.0 -44.1 -61.2 13.3 0.0 -1.3
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	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 GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WANDAK 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 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 0 359 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 0 804	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 135 312 0 302 93 131 12 35 0 WR-NR 508 0 2354 3508 0 0 0 82 89	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 13.0 13.0 14.1 12.2 12.2 13.0 14.1 15.4 15.4 15.4 15.4 16.1 17.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5 -12.2 0.0 -44.1 -61.2 13.3 0.0 -1.3 1.8
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 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	0 359 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 1335 312 0 302 93 131 12 35 0 WR-NR 508 0 2354 3508 0 0 82 89 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 5.0 2.3 28.5 43.9 23.0 30.5 0.0 1.9 0.0 1.9 0.0 1.0 1.3 0.0 172.3 12.2 0.0 44.1 61.2 0.0 0.0 1.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5 -12.2 0.0 -44.1 -61.2 13.3 0.0 -1.3
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 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-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 0 359 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 0 0 1	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 1335 312 0 302 93 131 12 35 0 WR-NR 508 0 2354 3508 0 0 82 89 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 13.0 13.0 14.1 12.2 12.2 13.0 14.1 15.4 15.4 15.4 15.4 16.1 17.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5 -12.2 0.0 -44.1 -61.2 13.3 0.0 -1.3 1.8 -103.7
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	0 359 0 0 0 0 0 567 0 65 114 136 966 127 3 17 72 36 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	ER-NER 502 NER-NR 797 103 1150 2483 1528 921 0 1436 838 1335 312 0 302 93 131 12 35 0 WR-NR 508 0 2354 3508 0 0 82 89 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20.4 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 13.0 13.0 14.1 12.2 12.2 13.0 14.1 15.4 15.4 15.4 15.4 16.1 17.3	-20.4 -12.0 -12.0 -12.0 -1.8 -28.5 -43.9 -23.0 -30.5 11.7 -29.1 -5.4 0.0 -1.9 22.5 -1 -0.3 -1.2 0.7 0.0 0.0 -136.5 -12.2 0.0 -44.1 -61.2 13.3 0.0 -1.3 1.8