

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: 07th Feb 2020

To,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह, लापलंग, शिलोंग ७९३००६ 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 06.02.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th 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 7-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)	47595	48590	43633	18638	2458	160914
Peak Shortage (MW)	543	0	0	0	48	591
Energy Met (MU)	993	1185	1051	360	42	3632
Hydro Gen (MU)	126	44	89	35	5	299
Wind Gen (MU)	3	57	26			86
Solar Gen (MU)*	39.64	25.60	92.15	1.52	0.05	159
Energy Shortage (MU)	13.5	0.0	0.0	0.0	0.8	14.2
Maximum Demand Met during the day (MW) & time	50391	56159	49085	18577	2477	174096
(from NLDC SCADA)	19:15	09:47	10:26	18:52	17:49	09:31

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	0.037	0.00	0.00	6.52	6.52	75.76	17.72

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	6298	0	123.8	65.2	-0.7	64	0.0
	Haryana	6744	0	131.6	89.6	-0.1	149	0.0
	Rajasthan	14209	0	251.7	85.4	0.5	324	0.0
	Delhi	4193	0	70.7	55.4	-0.9	208	0.0
NR	UP	16597	60	292.0	118.3	0.7	740	1.7
	Uttarakhand	2178	0	39.4	22.3	-0.1	96	0.0
	HP	1702	0	30.5	24.6	-1.3	114	0.0
	J&K(UT) and Ladakh(UT)	2696	674	49.7	44.3	0.1	398	11.7
	Chandigarh	259	0	4.1	3.9	0.2	35	0.0
	Chhattisgarh	3594	0	75.6	30.1	-1.4	216	0.0
	Gujarat	15857	0	337.0	78.4	5.4	913	0.0
	MP	14555	0	267.7	136.6	-2.7	555	0.0
WR	Maharashtra	22853	0	463.7	142.8	-4.0	405	0.0
WK	Goa	490	0	9.8	9.7	-0.3	30	0.0
	DD	315	0	7.1	6.9	0.2	32	0.0
	DNH	782	0	18.2	18.2	0.0	38	0.0
	Essar steel	793	0	5.7	5.8	-0.1	217	0.0
	Andhra Pradesh	9336	0	189.5	64.0	0.1	463	0.0
	Telangana	11449	0	226.2	116.2	0.0	685	0.0
SR	Karnataka	12732	0	239.5	79.1	-0.4	500	0.0
3K	Kerala	3777	0	75.4	56.7	1.8	300	0.0
	Tamil Nadu	14474	0	312.9	169.8	0.9	644	0.0
	Pondy	373	0	7.5	7.7	-0.2	40	0.0
	Bihar	4485	0	77.0	75.3	-2.0	250	0.0
	DVC	3161	0	64.7	-41.5	-1.3	200	0.0
ER	Jharkhand	1326	0	25.1	21.2	-1.2	50	0.0
LIN	Odisha	3893	0	71.0	9.3	-0.1	300	0.0
	West Bengal	6489	0	120.7	33.3	0.8	450	0.0
	Sikkim	137	0	2.0	1.9	0.1	40	0.0
	Arunachal Pradesh	125	5	2.3	2.2	0.0	23	0.0
	Assam	1378	38	22.8	19.8	0.6	94	0.5
	Manipur	195	3	2.7	3.1	-0.4	45	0.0
NER	Meghalaya	385	2	6.9	6.0	0.2	69	0.3
	Mizoram	111	3	1.6	1.7	-0.4	26	0.0
	Nagaland	121	2	2.3	2.1	0.0	3	0.0
	Tripura	224	10	3.6	1.7	-0.2	40	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.8	-11.5	-11.6
Day peak (MW)	466.7	-586.3	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.3	-268.6	122.6	-96.9	7.5	-0.1
Actual(MU)	225.1	-281.3	150.3	-100.4	5.4	-0.9
O/D/U/D(MU)	-10.2	-12.7	27.7	-3.5	-2.1	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5416	14882	6922	1855	703	29778
State Sector	11605	15266	6620	5370	11	38872
Total	17021	30147	13542	7225	715	68650

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	510	1252	557	465	13	2797
Lignite	18	15	47	0	0	80
Hydro	126	44	89	35	5	299
Nuclear	24	33	40	0	0	97
Gas, Naptha & Diesel	33	34	17	0	23	107
RES (Wind, Solar, Biomass & Others)	72	93	152	2	0	318
Total	783	1471	902	502	40	3698

Share of RES in total generation (%)	9.18	6.30	16.89	0.31	0.12	8.61
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.37	11.54	31.16	7.30	11.58	19.31

H. All India Demand Diversity Factor

III III III III Deliuliu Diversity I uctor	
Based on Regional Max Demands	1.015
Based on State Max Demands	1.082

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	0 299	0.0	7.3	-7.3
1		GAYA-VARANASI	D/C	0	894	0.0	10.2	-10.2
2	765kV	SASARAM-FATEHPUR	S/C	40	291	0.0	3.6	-3.6
3		GAYA-BALIA	S/C	0	580	0.0	8.6	-8.6
6	4	PUSAULI-VARANASI	S/C	0	221	0.0	4.4	-4.4
7 8		PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	S/C D/C	0 115	156 294	0.0	2.7	-2.7 -2.6
9	400 kV	PATNA-BALIA	O/C	0	681	0.0	12.0	-2.0
10	1	BIHARSHARIFF-BALIA	D/C	0	348	0.0	5.6	-5.6
11		MOTIHARI-GORAKHPUR	D/C	0	492	0.0	9.5	-9.5
12		BIHARSHARIFF-VARANASI	D/C	84	280	0.0	2.2	-2.2
13	220 kV	PUSAULI-SAHUPURI	S/C	0	85	0.0	1.3	-1.3
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
16 17	-	KARMANASA-SAHUPURI	S/C S/C	0	0	0.0	0.0	0.0
1 /	<u> </u>	KARMANASA-CHANDAULI	S/C	U	ER-NR	0.0	70.0	- 69.3
Import/F	Export of	ER (With WR)			2A-11K	U. /	70.0	-07.3
18	1		Q/C	1421	0	25.5	0.0	25.5
	765 kV	JHARSUGUDA-DHARAMJAIGARH						
19 20	1	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	D/C D/C	811 364	82 29	5.8 2.6	0.0	5.8 2.6
21		JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	Q/C	140	344	0.0	2.3	-2.3
22	400 kV	RANCHI-SIPAT	D/C	287	34	1.9	0.0	1.9
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0
24	220 K V	BUDHIPADAR-KORBA	D/C	95	0	1.3	0.0	1.3
					ER-WR	37.1	2.3	34.8
	Export of	ER (With SR)	1 2 2	0.0	555.0	0.0	12.0	12.0
26 27	HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	D/C D/C	0.0	655.0	0.0	13.0	-13.0
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1982.0 2778.0	0.0	44.3 50.6	-44.3 -50.6
28	400 kV	TALCHER-I/C	D/C	231.0	257.0	0.0	1.5	-1.5
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
				**	ER-SR	0.0	107.8	-107.8
Import/E	Export of	ER (With NER)						
30	400 kV	BINAGURI-BONGAIGAON	D/C	182	478	0.0	4.4	-4
31		ALIPURDUAR-BONGAIGAON	D/C	284	616	0.0	3.9	-4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	56	117	0.0	0.7	-1
			D/C	56	117 ER-NER	0.0	0.7 9.0	-1 -9.0
		NER (With NR)	D/C	489		0.0		
Import/E	Export of				ER-NER		9.0	-9.0
Import/E	Export of HVDC	NER (With NR)			ER-NER 503	0.0	2.2	-9.0
Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA			ER-NER 503	0.0	2.2	-9.0
Import/E 33 Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	-	489	ER-NER 503 NER-NR	0.0	9.0 2.2 2.2	-9.0 -2.2 -2.2
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	0 447 0	503 NER-NR 1002 0 1925	0.0 0.0 0.0 0.0 9.7 0.0	2.2 2.2 22.6 0.0 43.6	-9.0 -2.2 -2.2 -22.6 9.7 -43.6
Import/E 33 Import/E 34 35 36 37	Export of HVDC	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	0 447 0 0	503 NER-NR 1002 0 1925 2704	0.0 0.0 0.0 0.0 9.7 0.0 0.0	2.2 2.2 2.6 0.0 43.6 45.9	-9.0 -2.2 -2.2 -22.6 9.7 -43.6 -45.9
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 GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C D/C D/C D/C D/C	0 447 0 0 0	503 NER-NR 1002 0 1925 2704 1659	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0	2.2 2.2 22.6 0.0 43.6 45.9 23.5	-9.0 -2.2 -2.2 -22.6 9.7 -43.6 -45.9 -23.5
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	489 0 447 0 0 0	503 NER-NR 1002 0 1925 2704 1659 1034	0.0 0.0 0.0 9.7 0.0 0.0 0.0	2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1	-9.0 -2.2 -2.2 -22.6 9.7 -43.6 -45.9 -23.5 -34.1
Import/E 33 Import/E 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	0 447 0 0 0 0 0 729	503 NER-NR 1002 0 1925 2704 1659 1034 0	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6	2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1 0.0	-9.0 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6
Import/E 33 Import/E 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	489 0 447 0 0 0 0 0 729 0	503 NER-NR 1002 0 1925 2704 1659 1034	0.0 0.0 0.0 9.7 0.0 0.0 0.0	2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1	-9.0 -2.2 -2.2 -22.6 9.7 -43.6 -45.9 -23.5 -34.1
Import/E 33 Import/E 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	0 447 0 0 0 0 0 729	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6 0.0	2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6	-9.0 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42	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	D/C D/C D/C D/C D/C D/C S/C S/C D/C	489 0 447 0 0 0 0 0 729 0 229	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6 0.0 0.0	2.2 2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6	-9.0 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1
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	489 0 447 0 0 0 0 0 729 0 229 122	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6 0.0 0.0	2.2 2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1	-9.0 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1
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 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	489 0 447 0 0 0 0 729 0 229 122 0	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6 0.0 0.0 0.0	2.2 2.2 2.2 22.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1	-9.0 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1
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-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND	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	489 0 447 0 0 0 0 729 0 229 122 0 996 51 28	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 0.0 2	-9.0 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 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	489 0 447 0 0 0 0 729 0 229 122 0 996 51 28 27	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 11.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 0.0 2 0.3 0.9	-9.0 -2.2 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 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 VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	D/C 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	489 0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.0 2 0.3 0.9 0.0	-9.0 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 -23.0 -2 0.2 -0.8 1.1
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	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-BHISMAL VCHAL-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0	-9.0 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7
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-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	489 0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25 0	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.6 -4.5 -3.4.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0
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-BHISMAL VCHAL-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0	-9.0 -2.2 -2.2 -2.6 9.7 -43.6 -45.9 -23.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 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	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 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	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	0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25 0	0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.6 -4.5 -3.4.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0
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 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)	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	489 0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.6 -4.5 -2.6 -4.1 -0.1 -4.1 -2.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9
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 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-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	489 0 447 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 WR-NR	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.6 -4.5 -2.6 -4.1 -0.1 -4.1 -23.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9
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 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-SHIINMAL 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	489 0 447 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0	503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25 0 WR-NR	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 0.0 2 0.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9
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 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 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-LSILIERU 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	489 0 447 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0 0 0 0 752	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 WR-NR 1006 0 2296 2716 0	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 208.6 23.5 23.5 23.5 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3.5 -34.1 11.6 -27.6 -4.1 -0.1 -4.1 -23.0 -2 -0.8 1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2
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 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-RANPUR BHANPURA-WANDAK MEHGAON-AURAIYA MALANPUR-JURAIYA 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	0 447 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 25 0 WR-NR 1006 0 2296 2716 0 0	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 0.0 208.6	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -4.6 -4.5 -2.6 -4.1 -0.1 -4.1 -23.0 -2 -0.8 1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2 0.0
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 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 CHITTORGARI-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WALIANIA GWALIOR-SAWAI MADHOPUR WR (With SR) BHABRAWATI B/B BARSUR-L.SILERU SOLAPUR-RICHMORI 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	489 0 447 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0 0 0 0 0 1	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 255 0 WR-NR 1006 0 2296 2716 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 28.6 23.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.4.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2 0.0 0.0
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 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-RANPUR BHANPURA-WANDAK MEHGAON-AURAIYA MALANPUR-JURAIYA 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	0 447 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 WR-NR 1006 0 225 0 WR-NR 0 0 2296 2716 0 0 0 81	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 28.6 23.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.4.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 -1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2 0.0 0.0 1.5
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 55 56 57 58	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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-RANPUR BHANPURA-WALIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD 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	489 0 447 0 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 255 0 WR-NR 1006 0 2296 2716 0 0 0 81 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 28.6 23.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.4.1 11.6 -27.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2 0.0 0.0
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 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 WR (With SR) BHADRAWATI B/B BHASWATI B/B BHADRAWATI B/B BHASWATI B/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	489 0 447 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0 0 0 0 0 1	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 255 0 WR-NR 1006 0 2296 2716 0 0 0 81 WR-SR	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 28.6 23.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.4.1 11.6 -2.7.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2 0.0 0.0 1.5 -87.5
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 55 56 57 58	Export of HVDC Export of HVDC 765 kV 400 kV 132kV 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-RANPUR BHANPURA-WALIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD 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	489 0 447 0 0 0 0 0 0 729 0 229 122 0 996 51 28 27 104 61 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0	ER-NER 503 NER-NR 1002 0 1925 2704 1659 1034 0 1414 864 163 466 0 462 89 120 0 255 0 WR-NR 1006 0 2296 2716 0 0 0 81 WR-SR	0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0	2.2 2.2 2.2 2.6 0.0 43.6 45.9 23.5 34.1 0.0 27.6 4.1 0.1 4.1 0.0 2 0.3 0.9 0.0 0.0 0.0 28.6 23.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-9.0 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.3 -3.4.1 11.6 -2.7.6 -4.1 -0.1 -4.1 23.0 -2 0.2 -0.8 1.1 0.7 0.0 -161.9 -23.2 0.0 -28.9 -45.1 8.2 0.0 0.0 1.5