

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: 26th May 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. मुख्य महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह, लापलंग, शिलोंग ७९३००६ Chief General Manager, 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 25.05.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-5.5.१ के प्रावधान के अनुसार, दिनांक २५-मई-२०१९ 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 25th May 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 26-May-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 2000 hrs; from RLDCs)	52169	51165	42508	18162	2376	166380
Peak Shortage (MW)	553	0	0	0	148	701
Energy Met (MU)	1175	1248	1009	443	42	3918
Hydro Gen (MU)	267	40	52	72	18	450
Wind Gen (MU)	7	65	97			168
Solar Gen (MU)*	29.24	23.21	88.22	2.30	0.03	143
Energy Shortage (MU)	10.7	0.0	0.0	0.0	4.3	15.1
Maximum Demand Met during the day	55256	55627	44913	21572	2471	172293
(MW) & time (from NLDC SCADA)	23:25	15:45	14:59	00:32	18:51	23:14

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 0.048 28.04

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	6723	0	142,4	73.6	-2.0	96	0.0
	Haryana	7544	0	156.0	110.8	-0.2	171	0.0
	Rajasthan	10667	0	238.8	64.7	2.3	559	0.0
	Delhi	5037	0	109.2	85.9	0.0	177	0.0
NR	UP	20397	170	406.1	179.8	-0.2	585	0.0
	Uttarakhand	2091	0	44.6	19.3	0.2	143	0.0
	HP	1456	0	29.1	6.7	1.7	215	0.0
	J&K	2340	585	44.6	25.7	-1.9	229	10.7
	Chandigarh	214	0	4.6	5.4	-0.8	-13	0.0
	Chhattisgarh	4013	0	92.1	39.9	-1.3	297	0.0
	Gujarat	17408	0	384.8	105.8	4.8	580	0.0
WR	MP	9788	0	223.5	126.6	0.0	468	0.0
	Maharashtra	22249	0	503.3	131.8	-0.8	903	0.0
	Goa	541	0	12.4	10.4	1.4	142	0.0
	DD	329	0	6.1	7.1	-1.0	45	0.0
	DNH	760	0	17.9	18.1	-0.2	66	0.0
	Essar steel	437	0	7.8	8.9	-1.2	231	0.0
	Andhra Pradesh	9605	0	201.0	70.3	0.3	577	0.0
	Telangana	8012	0	172.6	61.7	2.0	995	0.0
SR	Karnataka	10175	0	194.1	52.1	0.4	824	0.0
3K	Kerala	4010	0	81.2	56.6	1.6	310	0.0
SK	Tamil Nadu	15097	0	351.6	161.3	-0.2	688	0.0
	Pondy	409	0	9.0	9.1	-0.1	50	0.0
	Bihar	5233	0	102.3	97.4	-0.2	250	0.0
	DVC	3129	0	67.0	-39.4	0.3	300	0.0
ER	Jharkhand	1077	0	26.0	21.8	-1.4	75	0.0
EN	Odisha	4391	0	91.0	38.1	1.7	450	0.0
	West Bengal	8327	0	155.6	51.2	-2.9	350	0.0
	Sikkim	92	0	1.2	1.3	-0.2	20	0.0
	Arunachal Pradesh	132	1	2.3	2.3	0.0	55	0.0
	Assam	1501	86	25.0	20.6	0.8	155	3.3
	Manipur	157	2	2.3	2.0	0.3	47	0.0
NER	Meghalaya	299	0	5.1	2.3	0.1	29	0.3
	Mizoram	85	0	1.6	1.4	0.1	11	0.0
	Nagaland	128	2	2.4	2.1	0.2	23	0.0
	Tripura	231	1	3.6	3.3	-0.9	43	0.7

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.9	-7.8	-23.4
Day peak (MW)	572.3	-463.0	-1104.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	203.4	-255.6	77.9	-22.8	-3.0	0.0
Actual(MU)	207.4	-242.9	88.8	-44.4	-3.7	5.2
O/D/U/D(MU)	4.0	12.7	10.9	-21.6	-0.7	5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4783	12219	6262	1395	535	25194
State Sector	7050	12512	6280	3010	50	28902
Total	11833	24731	12542	4405	585	54096

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	575	1276	545	450	4	2851
Lignite	22	15	52	0	0	89
Hydro	267	40	52	72	18	450
Nuclear	27	31	58	0	0	116
Gas, Naptha & Diesel	45	49	9	0	28	130
RES (Wind, Solar, Biomass & Others)	56	93	216	2	0	368
Total	993	1504	932	524	50	4003

Share of RES in total generation (%)	5.66	6.21	23.16	0.45	0.06	9.19
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	35.35	10.90	35.00	14.26	35.87	23.33

H. Diversity Factor All India Demand Diversity Factor

1.044 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.} \ Limited \ visibility \ \text{of embedded solar} \ \text{data}.$

		<u>IN</u> '	TER-REGI	ONAL EXCH	ANGES	Date of 1	Reporting :	26-May-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)
Import/E		ER (With NR)					()	()
1	7651-37	GAYA-VARANASI	D/C	103	207	0.0	0.4	-0.4
3	765kV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	49 0	233 298	0.0	1.8 4.6	-1.8 -4.6
4	HVDC	ALIPURDUAR-AGRA	-	0	501	0.0	12.1	-12.1
5	HVDC	PUSAULI B/B	S/C	0	49	0.0	1.3	-1.3
6	_	PUSAULI-VARANASI	S/C	0	87	0.0	1.4	-1.4
7		PUSAULI -ALLAHABAD	S/C	25	26	0.3	0.0	0.3
9	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	742	0.0	11.4	-11.4
10	400 KV	PATNA-BALIA	Q/C D/C	0	906 512	0.0	15.3 8.3	-15.3 -8.3
11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	D/C D/C	0	325	0.0	5.8	-6.5 -5.8
12		BIHARSHARIFF-VARANASI	D/C	96	175	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	183	0.0	3.3	-3.3
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
16	132 KV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	<u>l</u>	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
		PID ANNA MAN			ER-NR	0.8	67.0	-66.2
Import/E	xport of	ER (With WR)			1			1
18		JHARSUGUDA-DHARAMJAIGARH	Q/C	1816	0	34.5	0.0	34.5
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1041	0	16.3	0.0	16.3
20		JHARSUGUDA-DURG	D/C	223	0	3.0	0.0	3.0
21	400 kV	JHARSUGUDA-RAIGARH PANCUI SIPAT	Q/C	328 341	21 0	4.4 5.2	0.0	4.4 5.2
22		RANCHI-SIPAT BUDHIPADAR-RAIGARH	D/C S/C	18	58	0.0	0.0	-0.5
24	220 kV	BUDHIPADAR-KORBA	D/C	178	0	3.2	0.0	3.2
		Debim ibin nonbi	D/ C	1,0	ER-WR	66.6	0.5	66.2
Import/F	Export of	ER (With SR)						
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1986.0	0.0	33.8	-33.8
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	518.0	0.0	12.1	-12.1
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1767.0	0.0	37.7	-37.7
28	400 kV	TALCHER-I/C	D/C	609.0	87.0	4.4	0.0	4.4
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	0.0	83.5	-83.5
	export of	ER (With NER)	D/C		400	0.0	1.6	
30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	250	400 130	0.0 1.5	4.6 0.0	-5 1
		ALIPURDUAK-BUNGAIGAUN	D/C	250	130		0.0	
32	220 FV	ALIDIDDITAD SALAKATI	D/C	21	68	0.0	0.3	0
32	220 kV	ALIPURDUAR-SALAKATI	D/C	21	68 ER-NER	0.0 1.5	0.3 4.9	-3.4
		ALIPURDUAR-SALAKATI NER (With NR)	D/C	21		0.0 1.5	0.3 4.9	-3.4
		•	D/C	403				
Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA	D/C		ER-NER	1.5	4.9	-3.4
Import/E 33	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	-]	403	ER-NER 0 NER-NR	0.0 0.0	9.0 9.0	-3.4 -9.0 -9.0
Import/E 33 Import/E 34	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C	403	0 NER-NR	0.0 0.0 0.0	9.0 9.0 9.0	-3.4 -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	403 0 453	0 NER-NR 1004 0	0.0 0.0 0.0 12.2	9.0 9.0 9.0 23.8 0.0	-3.4 -9.0 -9.0 -23.8 12.2
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	403 0 453 0	0 NER-NR 1004 0 1265	0.0 0.0 0.0 12.2 0.0	9.0 9.0 9.0 23.8 0.0 31.5	-3.4 -9.0 -9.0 -23.8 12.2 -31.5
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	403 0 453 0	0 NER-NR 1004 0 1265 2315	0.0 0.0 0.0 12.2 0.0 0.0	9.0 9.0 9.0 23.8 0.0 31.5 39.4	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4
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	403 0 453 0 0	0 NER-NR 1004 0 1265 2315 1255	0.0 0.0 0.0 12.2 0.0 0.0 0.0	9.0 9.0 9.0 23.8 0.0 31.5 39.4 21.4	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4
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	403 0 453 0 0 0 0	0 NER-NR 1004 0 1265 2315 1255 816	0.0 0.0 0.0 12.2 0.0 0.0 0.0 0.0	9.0 9.0 9.0 23.8 0.0 31.5 39.4 21.4 25.0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0
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 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	403 0 453 0 0 0 0 0 405	0 NER-NR 1004 0 1265 2315 1255 816 0	0.0 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 7.4	9.0 9.0 9.0 23.8 0.0 31.5 39.4 21.4 25.0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4
Import/E 33 Import/E 34 35 36 37 38 39	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 D/C D/C D/C D/C	403 0 453 0 0 0 0	0 NER-NR 1004 0 1265 2315 1255 816	0.0 0.0 0.0 12.2 0.0 0.0 0.0 0.0	9.0 9.0 9.0 23.8 0.0 31.5 39.4 21.4 25.0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0
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	403 0 453 0 0 0 0 0 405 0	0 NER-NR 1004 0 1265 2315 1255 816 0	0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5
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 GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C D/C	403 0 453 0 0 0 0 0 405 0 136	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405	0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 7.4 0.0	9.0 9.0 9.0 31.5 25.0 0.0 31.5 2.7	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7
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 GATIAN-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	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	403 0 453 0 0 0 0 405 0 136 175	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405	0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 7.4 0.0 0.0	9.0 9.0 9.0 31.5 39.4 25.0 0.0 31.5 2.7	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7
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 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	403 0 453 0 0 0 0 405 0 136 175 230	0 NER-NR 1004 0 1265 2315 1255 816 0 0 1558 405 10 97	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 7.4 0.0 0.0 0.0 1.3	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3
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 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	403 0 453 0 0 0 0 405 0 136 175 230 973	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0	0.0 0.0 0.0 12.2 0.0 0.0 0.0 0.0 7.4 0.0 0.0 0.0 1.3 22.1	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1
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 JABAL PUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-ABHKROLI 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	403 0 453 0 0 0 0 0 405 0 136 175 230 973 237	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171	0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 7.4 0.0 0.0 0.0 1.3 22.1 0	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0
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-BHINNAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-KOTA	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	403 0 453 0 0 0 0 405 0 136 175 230 973 237 50	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3
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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA 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	403 0 453 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4
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-KOTA 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	403 0 453 0 0 0 0 405 0 136 175 230 973 237 50 8 71	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.3 22.1 0 0.4 0.0 0.6 0.0 0.0	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 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 CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-KOTA BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-JUR 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	403 0 453 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -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 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 ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-MOTA BHANPURA-MOTA GWALIOR-SAWAI MADHOPUR WR (With SR)	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	403 0 453 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.4 0.0 178.3	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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 ZERDA-BHINNAL ZERDA-BHINNAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-MOTA BHANPURA-WAIYA 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	403 0 453 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.4 178.3	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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-BHINNAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA 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	403 0 453 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.1 178.3	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-WOTA MALANPUR-AURAIYA MALANPUR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-KURAKANAI WW (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	403 0 453 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.1 0.8 0.0 178.3	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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-SHUJALPUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILIERU 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	403 0 453 0 0 0 453 0 0 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.0 0.1 0.8 0.0 0.4 0.0 178.3 17.7 0.0 15.1 15.1 15.1	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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 LINK	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-BAHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRUR-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	403 0 453 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 178.3 17.7 0.0 0.0 15.1 25.0	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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-SHUJALPUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILIERU 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	403 0 453 0 0 0 453 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0 0 0 0 519 0 980	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.0 0.1 0.8 0.0 0.4 0.0 178.3 17.7 0.0 15.1 15.1 15.1	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6
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 GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-KOTA MALANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RICHIKODI 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	0 453 0 0 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 44 0 WR-NR 992 0 2021 2158 0 0	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 178.3 17.7 0.0 0.0 178.3	-3.4 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6 -17.7 0.0 -15.1 -25.0 14.0 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	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 GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-KOTA BHANPURA-WASHAMAN	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 D/C S/C S/C D/C S/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	403 0 453 0 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0 0 0 0 519 0 980 0 1	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444 0 WR-NR 992 0 2021 2158 0 0 0	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 178.3 17.7 0.0 0.0 15.1 17.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6 -17.7 0.0 -15.1 -25.0 14.0 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	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 GWALIOR-ORAI GATION-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-KOTA BHANPURA-WOTA 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	403 0 453 0 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0 0 0 519 0 980 0 1	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444 0 WR-NR 992 0 2021 2158 0 0 0 53 WR-SR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.4 0.0 178.3 17.7 0.0 0.0 15.1 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6 -17.7 0.0 -15.1 -25.0 14.0 0.0 0.0 1.1
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 CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-KOTA 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	403 0 453 0 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0 0 0 0 519 0 980 0 1	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444 0 WR-NR 992 0 2021 2158 0 0 0 53 WR-SR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.4 0.0 178.3 17.7 0.0 0.0 15.1 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6 -17.7 0.0 -15.1 -25.0 14.0 0.0 0.0 1.1 -42.7
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 GWALIOR-ORAI GATION-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-KOTA BHANPURA-KOTA BHANPURA-WOTA 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	403 0 453 0 0 0 0 0 0 405 0 136 175 230 973 237 50 8 71 17 0 0 0 519 0 980 0 1	0 NER-NR 1004 0 1265 2315 1255 816 0 1558 405 10 97 0 171 27 68 7 444 0 WR-NR 992 0 2021 2158 0 0 0 53 WR-SR	1.5 0.0 0.0 12.2 0.0 0.0 0.0 0.0 0.	9.0 9.0 9.0 9.0 31.5 39.4 21.4 25.0 0.0 31.5 2.7 1.7 0.0 0.0 0.1 0.8 0.0 0.4 0.0 178.3 17.7 0.0 0.0 15.1 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3.4 -9.0 -9.0 -9.0 -23.8 12.2 -31.5 -39.4 -21.4 -25.0 7.4 -31.5 2.7 -1.7 1.3 22.1 0 0.3 -0.8 0.6 -0.4 0.0 -128.6 -17.7 0.0 -15.1 -25.0 14.0 0.0 0.0 1.1