

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: 18th Nov 2019

To,

- 1. कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 17.11.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-नवम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 17th Nov 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting 18-Nov-19

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	40301	44045	35942	16862	2213	139363
Peak Shortage (MW)	486	0	0	0	56	542
Energy Met (MU)	815	1047	854	326	40	3082
Hydro Gen (MU)	139	28	81	44	11	303
Wind Gen (MU)	17	56	24			98
Solar Gen (MU)*	24.47	20.4	83.83	1.66	0.03	130
Energy Shortage (MU)	10.8	0.0	0.0	0.0	0.6	11.4
Maximum Demand Met during the day	40343	46872	37783	17215	2327	141643
(MW) & time (from NLDC SCADA)	18:53	11:24	18:37	18:29	17:44	18:40

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	4585	0	93.0	46.3	-1.8	72	0.0
	Haryana	5095	0	101.8	91.0	0.5	291	0.0
NR	Rajasthan	10850	0	203.7	56.8	-1.7	410	0.0
	Delhi	3217	0	58.5	45.4	-1.1	122	0.0
	UP	14009	0	257.1	114.2	0.4	994	0.9
	Uttarakhand	1611	0	30.9	16.2	-0.1	84	0.0
	HP	1393	5	25.3	18.2	-0.9	85	0.0
	J&K	2237	559	42.0	36.2	-1.7	201	9.9
	Chandigarh	173	0	3.0	3.0	0.0	31	0.0
	Chhattisgarh	3303	0	70.8	25.5	-1.1	584	0.0
	Gujarat	14065	0	299.7	93.8	-1.4	407	0.0
	MP	11554	0	227.0	147.8	-2.4	419	0.0
WR	Maharashtra	18447	0	406.7	130.9	-3.4	506	0.0
WK	Goa	541	0	12.0	11.2	0.2	58	0.0
	DD	286	0	7.6	6.1	1.5	52	0.0
	DNH	753	0	17.7	17.8	-0.1	47	0.0
	Essar steel	293	0	5.6	5.7	-0.1	295	0.0
	Andhra Pradesh	8004	0	168.3	74.9	0.9	552	0.0
	Telangana	8599	0	189.2	77.6	0.6	372	0.0
SR	Karnataka	8427	0	164.1	35.4	-0.6	662	0.0
JK.	Kerala	3285	0	65.4	52.5	1.1	202	0.0
	Tamil Nadu	11920	0	260.2	149.2	0.3	542	0.0
	Pondy	328	0	6.7	7.1	-0.5	37	0.0
	Bihar	4121	0	69.4	67.2	-2.1	450	0.0
	DVC	3000	0	61.3	-31.3	0.3	700	0.0
ER	Jharkhand	1132	0	23.9	17.4	-1.4	31	0.0
LN	Odisha	3473	0	64.2	9.6	0.2	200	0.0
	West Bengal	5766	0	106.1	32.6	2.1	450	0.0
	Sikkim	87	0	1.1	1.3	-0.2	25	0.0
	Arunachal Pradesh	110	2	2.0	1.6	0.3	15	0.0
	Assam	1318	45	22.4	16.9	0.2	99	0.6
	Manipur	166	3	2.5	2.4	0.1	28	0.0
NER	Meghalaya	325	0	5.7	2.9	0.2	38	0.0
	Mizoram	91	1	1.7	0.5	0.8	12	0.0
	Nagaland	118	2	2.1	1.9	-0.1	21	0.0
	Tripura	214	4	3.5	2.5	-0.6	46	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.9	-1.2	-16.8
Day peak (MW)	590.0	-201.0	-971.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	175.6	-183.4	94.5	-86.0	-0.9	-0.3
Actual(MU)	165.0	-191.1	116.4	-93.3	-1.1	-4.1
O/D/U/D(MU)	-10.6	-7.7	21.9	-7.3	-0.2	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4820	17406	7882	2080	834	33022
State Sector	14141	19258	10030	5370	11	48810
Total	18961	36664	17912	7450	846	81832

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	401	1043	403	406	10	2262
Lignite	17	13	45	0	0	76
Hydro	139	28	81	44	11	303
Nuclear	30	28	55	0	0	113
Gas, Naptha & Diesel	25	40	17	0	24	106
RES (Wind, Solar, Biomass & Others)	64	90	141	2	0	297
Total	675	1242	743	451	45	3156
•						
Share of RES in total generation (%)	9.42	7.26	18.98	0.38	0.07	9.40
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.34	11.78	37.35	10.07	23.89	22.55

н	AII	India	Damand	Divorcity	Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.079

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

 $[\]textbf{*Source:} \ 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)
	Export of	ER (With NR)			1			
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	0	753 442	0.0	10.9 5.4	-10.9 -5.4
3	70011	GAYA-BALIA	S/C	0	376	0.0	7.5	-7.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	196	0.0	5.0	-5.0
6 7	1	PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	163 118	0.0	3.1 1.7	-3.1 -1.7
8	1	MUZAFFARPUR-GORAKHPUR	D/C	0	1006	0.0	15.0	-1./
9	400 kV	PATNA-BALIA	Q/C	0	1046	0.0	19.9	-19.9
10		BIHARSHARIFF-BALIA	D/C	0	340	0.0	5.9	-5.9
11		MOTIHARI-GORAKHPUR	D/C	0	8	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	310	0.0	3.1	-3.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	71	0.0	1.1	-1.1
14	-	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15 16	132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	S/C S/C	30 0	0	0.4	0.0	0.4
17	1	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
1,	<u> </u>		S/C	· ·	ER-NR	0.4	78.5	-78.1
Import/F	Export of	ER (With WR)						1
18		JHARSUGUDA-DHARAMJAIGARH	Q/C	1079	0	23.4	0.0	23.4
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	291	419	1.3	0.0	1.3
20	i	JHARSUGUDA-DURG	D/C	45	168	0.0	1.1	-1.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	127	203	0.0	0.7	-0.7
22	-100 K V	RANCHI-SIPAT	D/C	129	121	0.8	0.0	0.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	62	0.0	0.6	-0.6
24		BUDHIPADAR-KORBA	D/C	126	0 ER-WR	2.0	0.0	2.0
Import/F	Export of	ER (With SR)			ER-WK	27.4	2.5	24.9
25	· -	ANGUL-SRIKAKULAM	D/C	0.0	2052.0	0.0	38.0	-38.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	695.0	0.0	15.1	-15.1
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2270.0	0.0	42.5	-42.5
28	400 kV	TALCHER-I/C	D/C	392.0	484.0	0.0	2.1	-2.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
·		ED WILL NED			ER-SR	0.0	95.6	-95.6
	export of	ER (With NER)	D/C	292		5.0	0.0	
30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	282	0	5.0 4.7	0.0	5
32	220 kV			52	18	0.7	0.0	1
34		IALIPURDUAR-SALAKATI	1)/C:					
32	-20 R V	ALIPURDUAR-SALAKATI	D/C		ER-NER	10.3	0.0	10.3
	,	NER (With NR)	D/C			10.3		1
	,	•	- D/C	371	ER-NER	9.2		1
Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA		371	ER-NER		0.0	10.3
Import/E 33 Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	-		ER-NER 0 NER-NR	9.2 9.2	0.0 0.0 0.0	9.2 9.2
Import/E 33 Import/E 34	Export of HVDC Export of	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C	0	0 NER-NR	9.2 9.2 0.0	0.0 0.0 0.0	9.2 9.2 9.2
Import/E 33 Import/E	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C		0 NER-NR 1003 0	9.2 9.2	0.0 0.0 0.0	9.2 9.2 9.2 -15.0 12.2
Import/E 33 Import/E 34 35	Export of HVDC Export of	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C	0 451	0 NER-NR	9.2 9.2 0.0 12.2	0.0 0.0 0.0	9.2 9.2 9.2
Import/E 33 Import/E 34 35 36	Export of HVDC Export of	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG	D/C D/C D/C	0 451 0	0 NER-NR 1003 0 1737	9.2 9.2 0.0 12.2 0.0	0.0 0.0 0.0 15.0 0.0 31.9	9.2 9.2 9.2 -15.0 12.2 -31.9
Import/E 33 Import/E 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	D/C D/C D/C D/C	0 451 0 0	0 NER-NR 1003 0 1737 1752	9.2 9.2 0.0 12.2 0.0 0.0	0.0 0.0 0.0 15.0 0.0 31.9 31.7	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7
Import/E 33 Import/E 34 35 36 37 38 39 40	Export of HVDC 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	D/C D/C D/C D/C D/C D/C D/C S/C	0 451 0 0 0 0 518 677	0 NER-NR 1003 0 1737 1752 1241 738 0	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5
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 PHAGG-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	0 451 0 0 0 518 677 0	0 NER-NR 1003 0 1737 1752 1241 738 0	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8
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 D/C S/C S/C D/C	0 451 0 0 0 518 677 0	0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715	9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9	9.2 9.2 9.2 15.0 12.2 -31.9 -18.6 -23.6 11.5 -26.8 -5.5
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 SATIA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C	0 451 0 0 0 518 677 0 267 119	0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2	9.2 9.2 9.2 15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0
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 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	0 451 0 0 0 518 677 0 267 119	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6
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 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	0 451 0 0 0 518 677 0 267 119	0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2	9.2 9.2 9.2 15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	Export of HVDC Export of HVDC - 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	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	0 451 0 0 0 518 677 0 267 119 191	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0	9.2 9.2 9.2 0.0 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4
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 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 S/C D/C	0 451 0 0 0 518 677 0 267 119 191 978	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of HVDC Export of HVDC - 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-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	0 451 0 0 0 518 677 0 267 119 191 978 184 41	0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2
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	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 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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3	0.0 0.0 0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1
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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 0	9.2 9.2 9.2 0.0 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0	0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.1 1.6 2.0 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	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-SHUIALPUR 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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 225 55 0 0	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.1 1.6 2.0
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	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-ANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-RANPUR 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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 0 WR-NR	9.2 9.2 9.2 0.0 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0	0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0.2 0.2 0.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0
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	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-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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 WR-NR	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0	0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0.2 0.2 0.0 15.4.6	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0
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	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 GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINNAL 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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 0 89 25 55 0 0 WR-NR	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6	0.0 0.0 0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.1 1.6 2.0 0.0 -100.0
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	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-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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 WR-NR	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0	0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0.2 0.2 0.0 15.4.6	9.2 9.2 9.2 15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0
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	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 SATINA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RAPUR BHANPURA-RAPUR BHANPURA-WARIAYA 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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 WR-NR	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6	0.0 0.0 0.0 0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6
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 T65 kV 400 kV 220 kV 132kV Export of HVDC LINK 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWATIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJAL-RUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.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 D/C S/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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 0 89 225 55 0 0 0 WR-NR 816 0 1644 2300	9.2 9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6 -40.8
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 T65 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 GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPUR-A-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI	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	0 451 0 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 0 WR-NR 816 0 1644 2300 0	9.2 9.2 9.2 0.0 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 1.6 2.0 0.0 54.6	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.3 9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6 -40.8 9.2
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-ROPAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BHADRAWATI B/B BOLAPUR-RUCGII KOLHAPUR-KUDGII 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	0 451 0 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 50 0 0 WR-NR 816 0 1644 2300 0 0	9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6	0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0.2 0.0 0.0 154.6 13.2 0.0 40.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6 -40.8 9.2 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 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 GATION-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUIALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIANA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHASUR-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	0 451 0 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 89 25 55 0 0 0 WR-NR 816 0 1644 2390 0 0 58	9.2 9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 11.5 0.0 0.4 1.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6 0.0 0.0 0.0 1.4 0.0 9.2 0.0 0.0	0.0 0.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0.0 0.0 0.0 154.6 13.2 0.0 20.0 40.8 0.0 0.0 1.1	9.2 9.2 9.2 1-15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6 -40.8 9.2 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	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 RAPS-SHUJAL-PUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WIANIAM 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	0 451 0 0 0 0 518 677 0 267 119 191 978 184 41 44 114 60 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 0 89 25 55 0 0 0 WR-NR 816 0 1644 2300 0 0 0 58 56 WR-SR	9.2 9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 11.5 0.0 11.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6 0.0 0.0 0.0 1.1 1.1 1.3	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0.0 154.6 13.2 0.0 20.0 40.8 0.0 0.0 1.1	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6 -40.8 9.2 0.0 -1.1 1.3
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPS-SHUJAL-PUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WIANIAM 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	0 451 0 0 0 518 677 0 267 119 191 978 184 41 44 41 44 0 0	ER-NER 0 NER-NR 1003 0 1737 1752 1241 738 0 1304 715 59 126 0 0 89 25 55 0 0 0 WR-NR 816 0 1644 2300 0 0 0 58 56 WR-SR	9.2 9.2 9.2 9.2 0.0 12.2 0.0 0.0 0.0 11.5 0.0 11.5 0.0 11.1 1.3 22.4 2 0.3 0.3 1.6 2.0 0.0 54.6 0.0 0.0 0.0 1.1 1.1 1.3	0.0 0.0 0.0 15.0 0.0 31.9 31.7 18.6 23.6 0.0 26.8 5.9 0.2 0.7 0.0 0 0.0 154.6 13.2 0.0 20.0 40.8 0.0 0.0 1.1	9.2 9.2 9.2 -15.0 12.2 -31.9 -31.7 -18.6 -23.6 11.5 -26.8 -5.5 1.0 0.6 22.4 2 0.2 0.1 1.6 2.0 0.0 -100.0 -13.2 0.0 -18.6 -40.8 9.2 0.0 -1.1 1.3