

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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 31st Jan 2020

To,

- 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 30.01.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-जनवरी-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 30th Jan 2020, is available at the NLDC website.

धन्यवाद,

Report for previous day Date of Reporting 31-Jan-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)	46527	48581	42411	18472	2403	158394
Peak Shortage (MW)	592	0	0	0	47	639
Energy Met (MU)	938	1165	1040	367	43	3553
Hydro Gen (MU)	132	43	98	34	5	312
Wind Gen (MU)	13	26	18			57
Solar Gen (MU)*	37.11	26.70	95.66	1.14	0.20	161
Energy Shortage (MU)	10.9	0.0	0.0	0.0	1.1	12.0
Maximum Demand Met during the day (MW) & time	48012	55851	48461	18700	2500	170363
(from NLDC SCADA)	09:12	10:33	11:27	19:02	18:22	13:51

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	0.031	0.00	0.10	5.46	5.57	81.79	12.64

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	5595	0	106.9	52.3	-1.1	25	0.0
	Haryana	6357	0	124.0	85.7	0.5	193	0.0
NR	Rajasthan	13733	0	240.9	60.7	-1.4	362	0.0
	Delhi	4079	0	71.1	56.1	-1.5	179	0.0
	UP	15497	0	271.2	106.7	-0.4	740	0.0
	Uttarakhand	2208	0	39.3	25.6	-0.2	228	0.0
	HP	1714	0	30.8	22.8	0.9	193	0.0
	J&K(UT) and Ladakh(UT)	2404	601	49.9	44.3	0.2	250	10.9
	Chandigarh	264	0	4.1	4.1	0.1	27	0.0
	Chhattisgarh	3826	0	83.2	36.9	-0.2	977	0.0
	Gujarat	15590	0	327.8	84.4	1.5	331	0.0
	MP	14118	0	258.0	138.3	-3.3	1857	0.0
WR	Maharashtra	22417	0	454.7	146.7	-2.0	3477	0.0
WK	Goa	485	0	10.0	10.2	-0.5	33	0.0
	DD	323	0	7.3	7.1	0.2	41	0.0
	DNH	806	0	18.7	18.7	0.0	32	0.0
	Essar steel	688	0	5.5	5.8	-0.3	264	0.0
	Andhra Pradesh	9605	0	191.8	67.1	0.6	576	0.0
	Telangana	11300	0	219.4	112.9	-1.0	817	0.0
SR	Karnataka	12745	0	239.4	64.3	-0.7	675	0.0
JI.	Kerala	3716	0	74.1	53.4	1.2	237	0.0
	Tamil Nadu	14537	0	308.0	162.4	-1.9	428	0.0
	Pondy	358	0	7.4	7.6	-0.2	64	0.0
	Bihar	4367	0	80.6	78.5	0.6	420	0.0
	DVC	3293	0	66.3	-37.6	-0.6	210	0.0
ER	Jharkhand	1299	0	26.1	16.5	0.2	100	0.0
EN	Odisha	3803	0	71.2	6.4	0.0	180	0.0
	West Bengal	6430	0	120.5	27.2	-0.1	300	0.0
	Sikkim	126	0	2.0	1.9	0.1	35	0.0
	Arunachal Pradesh	119	1	2.1	2.1	-0.1	54	0.0
	Assam	1351	23	24.1	19.6	1.9	98	0.8
	Manipur	181	2	2.6	3.1	-0.5	28	0.0
NER	Meghalaya	373	1	6.5	6.0	-0.2	345	0.3
	Mizoram	110	0	1.6	1.6	-0.3	24	0.0
	Nagaland	115	2	2.1	2.0	-0.1	16	0.0
	Tripura	234	8	3.9	1.8	-0.1	31	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.8	-10.0	-10.4
Day peak (MW)	388.1	-554.0	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.7	-238.6	121.8	-104.4	6.9	-0.6
Actual(MU)	194.7	-255.6	150.4	-99.1	8.1	-1.4
O/D/U/D(MU)	-19.0	-16.9	28.7	5.3	1.2	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6457	14783	8272	2220	613	32345
State Sector	11735	15305	6590	3950	11	37591
Total	18192	30088	14862	6170	625	69936

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	478	1238	545	459	12	2732
Lignite	24	15	50	0	0	89
Hydro	132	43	98	34	5	312
Nuclear	24	33	40	0	0	97
Gas, Naptha & Diesel	26	38	18	0	22	105
RES (Wind, Solar, Biomass & Others)	80	60	148	1	0	289
Total	764	1427	898	494	40	3623
CI OFFICE A LI (1 (A/)	40.45	1.10	4 / 4=		0.54	- 0-

Share of RES in total generation (%)	10.45	4.19	16.47	0.23	0.51	7.97
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.86	9.49	31.80	7.20	12.79	19.25

H. All India Demand Diversity Factor

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Based on Regional Max Demands	1.019
Based on State Max Demands	1.081

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.}$

		IN	<u> FER-REGI</u>	ONAL EXCH	ANGES	Date of I	Reporting :	31-Jan-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	0 299	0.0	7.5	-7.5
1		GAYA-VARANASI	D/C	72	851	0.0	9.0	-9.0
2	765kV	SASARAM-FATEHPUR	S/C	55	333	0.0	4.3	-4.3
3		GAYA-BALIA	S/C	0	548	0.0	8.1	-8.1
6		PUSAULI-VARANASI	S/C	0	233	0.0	4.6	-4.6
7	_	PUSAULI -ALLAHABAD	S/C	0	157	0.0	2.7	-2.7
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	0	732 741	0.0	9.1 14.7	-9.1 -14.7
10	400 K	BIHARSHARIFF-BALIA	D/C	0	359	0.0	5.3	-5.3
11	-	MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	127	253	0.0	1.8	-1.8
13	220 kV	PUSAULI-SAHUPURI	S/C	42	40	0.0	0.1	-0.1
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
Import/E	Evnert of	FR (With WP)			ER-NR	0.7	59.7	-59.0
_	APOLT 01	ER (With WR)	1		1			
18	745137	JHARSUGUDA-DHARAMJAIGARH	Q/C	1672	0	22.7	0.0	22.7
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	537	382	1.2	0.0	1.2
20		JHARSUGUDA-DURG	D/C	91 78	148	0.0	0.9	-0.9 -3.2
22	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	207	364 136	0.0	0.0	-3.2
23		BUDHIPADAR-RAIGARH	S/C	1	104	0.0	1.3	-1.3
24	220 kV	BUDHIPADAR-KORBA	D/C	152	0	2.3	0.0	2.3
	L.		l		ER-WR	26.6	5.3	21.2
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	533.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1984.0	0.0	47.9	-47.9
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2683.0	0.0	47.8	-47.8
28	400 kV	TALCHER-I/C	D/C	0.0	963.0	0.0	5.2	-5.2
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0 ER-SR	0.0	0.0 108.0	0.0 -108.0
Import/F	Export of	ER (With NER)			EK-5K	0.0	100.0	-106.0
30	T .	BINAGURI-BONGAIGAON	D/C	175	94	1.0	0.0	1
31	400 kV			272		1.9		2
		ALIPURDUAR-BONGAIGAON	D/C	212	104	1.9	0.0	
32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	60	104 34	0.4	0.0	0
		ALIPURDUAR-SALAKATI						
Import/E	Export of	ALIPURDUAR-SALAKATI NER (With NR)	D/C	60	34 ER-NER	0.4 3.3	0.0	3.3
		ALIPURDUAR-SALAKATI			34 ER-NER	0.4 3.3	0.0	0 3.3
Import/E	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C	60	34 ER-NER	0.4 3.3	0.0	0 3.3
Import/E 33 Import/E	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C	60 477	34 ER-NER 0 NER-NR	0.4 3.3 12.3 12.3	0.0 0.0 0.0 0.0	0 3.3 12.3 12.3
Import/E 33 Import/E 34	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C - D/C	60 477 0	34 ER-NER 0 NER-NR	0.4 3.3 12.3 12.3	0.0 0.0 0.0 0.0 31.4	0 3.3 12.3 12.3
Import/E 33 Import/E 34 35	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C - D/C D/C	60 477 0 447	34 ER-NER 0 NER-NR 2302 0	0.4 3.3 12.3 12.3 0.0	0.0 0.0 0.0 0.0 31.4 0.0	0 3.3 12.3 12.3 -31.4 12.1
Import/E 33 Import/E 34	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C - D/C	60 477 0	34 ER-NER 0 NER-NR	0.4 3.3 12.3 12.3	0.0 0.0 0.0 0.0 31.4	0 3.3 12.3 12.3
33 Import/E 34 35 36	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG	D/C - D/C D/C D/C	60 477 0 447 0	34 ER-NER 0 NER-NR 2302 0 1927	0.4 3.3 12.3 12.3 0.0 12.1 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9	0 3.3 12.3 12.3 -31.4 12.1 -46.9
Import/E 33 Import/E 34 35 36 37	Export of HVDC HVDC	ALIPURDUAR-SALAKATI 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 D/C D/C	60 477 0 447 0 0	34 ER-NER 0 NER-NR 2302 0 1927 2619	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9	0 3.3 12.3 12.3 -31.4 12.1 -46.9 -42.9
Import/E 33 Import/E 34 35 36 37 38	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C D/C D/C D/C D/C D/C D	60 477 0 447 0 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0	0 3.3 12.3 12.3 12.1 12.1 46.9 42.9 19.7 -27.8 11.6
Import/F 33 Import/F 34 35 36 37 38 39 40 41	Export of HVDC HVDC	ALIPURDUAR-SALAKATI 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	60 477 0 447 0 0 0 0 0 0 696 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2	0 3.3 12.3 12.3 12.1 12.1 46.9 42.9 19.7 -27.8 11.6 -29.2
33 Import/E 34 35 36 37 38 39 40 41 42	Export of HVDC HVDC	ALIPURDUAR-SALAKATI 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	60 477 0 447 0 0 0 0 0 0 0 696 0 631	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538	0.4 3.3 12.3 12.3 12.1 0.0 12.1 0.0 0.0 0.0 11.6 0.0 2.8	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5	0 3.3 12.3 12.3 12.1 12.1 146.9 42.9 119.7 -27.8 11.6 -29.2
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	Export of HVDC HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	D/C D/C D/C D/C D/C D/C D/C S/C S	60 477 0 447 0 0 0 0 0 696 0 631 274	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0	0 3.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6
Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44	Export of HVDC HVDC	ALIPURDUAR-SALAKATI 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	60 477 0 447 0 0 0 0 0 696 0 631 274 421	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219	0.4 3.3 12.3 12.3 12.1 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0	0 3.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6 0.0
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	ALIPURDUAR-SALAKATI 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C D/C	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 14447 538 69 219 0	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0	0 3.3 12.3 12.3 12.3 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12.7 12.7 13.8 11.6 12.9 11.6 12.9 11.6 12.9 11.6 12.9 11.6 12.9 11.6 12.9 13.0 14.9 15.0 16.0
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	ALIPURDUAR-SALAKATI 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 ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C D/C D/C D/C D/C	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 0.0	0 3.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6 0.0 22.7 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	ALIPURDUAR-SALAKATI 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	D/C D/C D/C D/C D/C D/C D/C D/C	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6 0.0 22.7 0 0.1
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	ALIPURDUAR-SALAKATI 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	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42 42	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0	0 3.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6 0.0 22.7 0 0.1 -1.2
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	ALIPURDUAR-SALAKATI 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 D/C	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6 0.0 22.7 0 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	ALIPURDUAR-SALAKATI 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	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114 0	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 20.5 1.3 0.0	0 3.3 12.3 12.3 -31.4 12.1 -46.9 -42.9 -19.7 -27.8 11.6 -29.2 -0.7 1.6 0.0 22.7 0 0.1 -1.2 1.3
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	ALIPURDUAR-SALAKATI 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-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105 58	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114 0 30	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 0.0 29.2 3.5 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.1 12.1 12.1
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	ALIPURDUAR-SALAKATI 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-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105 58	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114 0 30 0	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 0.0 29.2 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.1 12.1
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	Export of HVDC Export of HVDC 765 kV 400 kV	ALIPURDUAR-SALAKATI 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 ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	D/C D/C D/C D/C D/C D/C D/C S/C S	60 477 0 447 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114 0 30 0 WR-NR	0.4 3.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 0.0 29.2 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.1 12.1 12.1 12.1
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of	ALIPURDUAR-SALAKATI 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 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	60 477 0 447 0 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114 0 30 WR-NR	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV	ALIPURDUAR-SALAKATI 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-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK 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 S/C S	60 477 0 447 0 0 0 0 696 0 631 274 421 975 308 42 105 58 0 0 0 0 0 256	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 114 0 30 0 WR-NR	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 0.0 20.5 1.3 0.0 0.1 0.0 23.8 0.0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.1 12.1
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	Export of HVDC Export of HVDC 765 kV 220 kV 132kV Export of HVDC 765 kV	ALIPURDUAR-SALAKATI 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-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-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 S/C S	60 477 0 447 0 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 0 0 0 0 0 0 0 0 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 14447 538 69 219 0 325 75 1114 0 30 0 WR-NR	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 0.0 29.2 3.5 0.0 0.0 0.0 0.0 29.2 3.5 0.0 0.0 29.2 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C D/C D/C D/C D/C D/C D/C	60 477 0 447 0 0 0 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 0 559	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 14447 538 69 219 0 325 75 114 0 0 WR-NR 1006 0 2091 2687 91	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 0.0 29.2 3.5 0.0 0.0 0.0 29.2 3.5 0.0 0.0 20	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV	ALIPURDUAR-SALAKATI 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) BHASWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C S/C S	60 477 0 447 0 0 69 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 0 0 0 0 0 0 0 0 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 14447 538 69 219 0 325 75 114 0 30 0 WR-NR 1006 0 2091 2687 91 0	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 0.0 29.2 3.5 0.0 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
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 220 kV 132kV Export of HVDC 765 kV	ALIPURDUAR-SALAKATI 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-RANPUR BHANPURA-WANGAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHARDAWATI 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 S/C S	60 477 0 447 0 0 447 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 0 1	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 14447 538 69 219 0 325 75 1114 0 30 0 WR-NR 1006 0 2091 2687 91 0 0	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
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	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV	ALIPURDUAR-SALAKATI 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) BHASWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C S/C S	60 477 0 447 0 0 69 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 0 0 0 0 0 0 0 0 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 14447 538 69 219 0 325 75 114 0 30 0 WR-NR 1006 0 2091 2687 91 0 0 86	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
mport/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 mport/E 52 53 54 55 56 57 58 58 58 58 58 58 58	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV	ALIPURDUAR-SALAKATI 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-RANPUR BHANPURA-WANGAK MEHGAON-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 S/C S	60 477 0 447 0 0 447 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 256 0 0 1 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 1114 0 30 0 WR-NR 1006 0 2091 2687 91 0 0 86 WR-SR	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
mport/E 33 mport/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 mport/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	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B'B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-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 S/C S	60 477 0 447 0 0 447 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 0 1	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 1114 0 30 0 WR-NR 1006 0 2091 2687 91 0 0 86 WR-SR	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
mport/E 33 mport/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 mport/F 52 53 54 55 56 57 58	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV	ALIPURDUAR-SALAKATI 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-RANPUR BHANPURA-WANGAK MEHGAON-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 S/C S	60 477 0 447 0 0 447 0 0 0 696 0 631 274 421 975 308 42 42 105 58 0 0 0 0 256 0 0 1 0	34 ER-NER 0 NER-NR 2302 0 1927 2619 1433 878 0 1447 538 69 219 0 325 75 1114 0 30 0 WR-NR 1006 0 2091 2687 91 0 0 86 WR-SR	0.4 3.3 12.3 12.3 12.3 0.0 12.1 0.0 0.0 0.0 0.0 0.0 11.6 0.0 2.8 1.6 0.0 22.7 2 0.5 0.1 1.3 0.4 0.0 54.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 31.4 0.0 46.9 42.9 19.7 27.8 0.0 29.2 3.5 0.0 0.0 20.5 1.3 0.0 0.1 0.0 20.5 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 3.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3