

## 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: 19<sup>th</sup> Feb 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 18.02.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-फरवरी-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 18<sup>th</sup> Feb 2020, is available at the NLDC website.

धन्यवाद,

Report for previous day Date of Reporting 19-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)	46817	50508	44958	18377	2419	163079
Peak Shortage (MW)	565	0	0	0	53	618
Energy Met (MU)	995	1253	1096	361	41	3745
Hydro Gen (MU)	140	41	86	35	3	305
Wind Gen (MU)	5	25	40			71
Solar Gen (MU)*	42.35	28.70	103.03	0.89	0.03	175
Energy Shortage (MU)	10.1	0.0	0.0	0.0	0.6	10.7
Maximum Demand Met during the day (MW) & time	51053	58133	51186	18975	2457	176579
(from NLDC SCADA)	08:13	11:00	08:08	18:58	17:59	07:56

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	0.043	0.00	0.90	7.70	8.60	78.31	13.09

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	6312	0	129.7	83.8	-1.4	40	0.0
	Haryana	6967	0	142.3	88.8	0.1	177	0.0
	Rajasthan	14001	0	250.9	76.3	0.4	382	0.0
	Delhi	3816	0	64.0	48.2	-0.8	176	0.0
NR	UP	15119	150	292.4	124.8	0.2	757	0.7
	Uttarakhand	1977	0	36.7	17.5	0.0	134	0.0
	HP	1589	0	26.9	19.5	0.3	253	0.0
	J&K(UT) and Ladakh(UT)	2599	650	48.8	41.0	-1.0	229	9.5
	Chandigarh	232	0	3.5	3.4	0.1	27	0.0
•	Chhattisgarh	3962	0	86.9	38.3	-1.1	262	0.0
	Gujarat	16024	0	353.0	96.1	-2.0	789	0.0
	MP	14301	0	272.0	134.6	-3.2	637	0.0
WR	Maharashtra	24031	0	493.9	146.5	-0.2	614	0.0
WK	Goa	503	0	10.3	10.1	-0.3	49	0.0
	DD	337	0	7.4	6.8	0.6	57	0.0
	DNH	800	0	18.7	18.7	0.0	38	0.0
	Essar steel	763	0	10.3	11.1	-0.8	214	0.0
	Andhra Pradesh	9562	0	197.3	73.9	0.5	398	0.0
	Telangana	12783	0	252.5	138.6	0.8	910	0.0
SR	Karnataka	12486	0	244.1	84.5	-1.0	916	0.0
311	Kerala	3830	0	77.4	62.3	1.2	222	0.0
	Tamil Nadu	14728	0	317.5	169.0	-0.6	415	0.0
	Pondy	365	0	7.3	7.7	-0.3	19	0.0
	Bihar	3831	0	74.8	71.8	1.3	165	0.0
	DVC	3136	0	63.7	-40.6	-0.6	265	0.0
ER	Jharkhand	1392	0	23.9	18.7	-0.4	155	0.0
	Odisha	3864	0	71.1	-2.2	-0.2	190	0.0
	West Bengal	6959	0	125.4	30.2	-0.7	395	0.0
	Sikkim	144	0	1.8	1.7	0.1	55	0.0
	Arunachal Pradesh	121	2	2.2	2.1	0.0	21	0.0
	Assam	1388	21	22.5	20.0	-0.2	123	0.3
	Manipur	205	3	2.6	2.8	-0.2	29	0.0
NER	Meghalaya	380	0	6.2	5.5	-0.2	38	0.2
	Mizoram	95	1	1.6	1.5	0.0	37	0.0
	Nagaland	129	2	2.3	2.0	0.1	32	0.0
	Tripura	220	0	3.5	2.0	0.0	58	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.4	-10.8	-13.2
Day peak (MW)	408.9	-545.0	-902.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	225.7	-254.6	141.6	-121.3	8.5	-0.1
Actual(MU)	216.9	-255.3	152.4	-123.7	8.1	-1.5
O/D/U/D(MU)	-8.8	-0.6	10.8	-2.4	-0.3	-1.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5453	13253	4832	1355	783	25675
State Sector	12325	12980	8395	4630	11	38341
Total	17778	26232	13227	5985	794	64016

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	496	1310	570	486	12	2875
Lignite	25	18	51	0	0	93
Hydro	140	41	86	35	3	305
Nuclear	24	37	39	0	0	100
Gas, Naptha & Diesel	37	62	16	0	22	137
RES (Wind, Solar, Biomass & Others)	74	62	181	1	0	317
Total	796	1529	943	522	37	3827

Share of RES in total generation (%)	9.31	4.03	19.16	0.18	0.08	8.29
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.94	9.12	32.45	6.85	6.94	18.87

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030	
Based on State Max Demands	1.070	

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

 $<sup>\</sup>textbf{*Source} : \textbf{RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.}$ 

i		IN	FER-REGI	ONAL EXCH	ANGES	Date of I	Reporting :	19-Feb-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)
	Export of	ER (With NR)	1					
5	HVDC	ALIPURDUAR-AGRA PUSAULI B/B	S/C	0	379	0.0	0.0 8.9	0.0 -8.9
1		GAYA-VARANASI	D/C	0	986	0.0	12.4	-12.4
2	765kV	SASARAM-FATEHPUR	S/C	62	205	0.0	2.2	-2.2
3		GAYA-BALIA	S/C	0	455	0.0	4.0	-4.0
6	-	PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C	0	284	0.0	5.8	-5.8
7 8	-	MUZAFFARPUR-GORAKHPUR	S/C D/C	121	168 429	0.0	2.9	-2.9 -2.7
9	400 kV	PATNA-BALIA	O/C	0	819	0.0	11.6	-2.7
10		BIHARSHARIFF-BALIA	D/C	0	367	0.0	5.3	-5.3
11		MOTIHARI-GORAKHPUR	D/C	0	505	0.0	8.9	-8.9
12		BIHARSHARIFF-VARANASI	D/C	126	201	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	163	0.0	3.0	-3.0
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0 ED ND	0.0	0.0	0.0
Impost/E	Export of	ER (With WR)			ER-NR	0.6	68.1	-67.5
-	2APOFt Of							
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1536	0	24.1	0.0	24.1
19	- 05 KV	NEW RANCHI-DHARAMJAIGARH	D/C	820	0	9.4	0.0	9.4
20		JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	D/C Q/C	0	122 466	0.0	6.5	-0.2 -6.5
22	400 kV	RANCHI-SIPAT	D/C	213	49	1.8	0.0	1.8
23	****	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0
24	220 kV	BUDHIPADAR-KORBA	D/C	74	0	1.1	0.0	1.1
					ER-WR	36.3	6.7	29.6
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	669.0	0.0	16.3	-16.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	48.5	-48.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2969.0	0.0	52.4	-52.4
28	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	D/C S/C	978.0 1.0	626.0	0.0	0.0	-4.5 0.0
29	220 K V	BALIMELA-UFFER-SILERRU	3/C	1.0	ER-SR	0.0	117.2	-117.2
Import/F	Export of	ER (With NER)						
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	521	0.0	7.9	-8
31	400 KV	ALIPURDUAR-BONGAIGAON	D/C	0	747	0.0	11.5	-12
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	133	0.0	2.0	-2
T 4/T		NED (W'd ND)			ER-NER	0.0	21.5	-21.5
•		NER (With NR)		0		1		•
Import/F	Export of HVDC	NER (With NR) BISWANATH CHARIALI-AGRA	-	0	502	0.0	12.1	-12.1
33	HVDC	BISWANATH CHARIALI-AGRA	-	0		1		•
33	HVDC		- D/C	0	502	0.0	12.1	-12.1
33 Import/E	HVDC	BISWANATH CHARIALI-AGRA WR (With NR)			502 NER-NR	0.0	12.1 12.1	-12.1 -12.1
33 Import/F 34	HVDC Export of	BISWANATH CHARIALI-AGRA  WR (With NR)  CHAMPA-KURUKSHETRA	D/C	0	502 NER-NR	0.0	12.1 12.1 0.0	-12.1 -12.1 0.0
33 Import/F 34 35	HVDC Export of	BISWANATH CHARIALI-AGRA  WR (With NR)  CHAMPA-KURUKSHETRA  VCHAL B/B	D/C D/C	0	502 NER-NR 0 490	0.0 <b>0.0</b> 0.0 0.0	12.1 12.1 0.0 8.1	-12.1 -12.1 0.0 -8.1
33 Import/F 34 35 36 37 38	HVDC Export of	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	0 0 0 0	502 NER-NR  0 490 1916 2496 1614	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7
33 Import/E 34 35 36 37 38 39	HVDC Export of	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	0 0 0 0 0	502 NER-NR  0 490 1916 2496 1614 962	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8
33 Import/E 34 35 36 37 38 39 40	Export of HVDC	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 S/C	0 0 0 0 0 0 0	502 NER-NR  0 490 1916 2496 1614 962 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9
33 Import/E 34 35 36 37 38 39 40 41	Export of HVDC	BISWANATH CHARIALI-AGRA  WR (With NR)  CHAMPA-KURUKSHETRA  VCHAL B/B  APL-MHG  GWALIOR-AGRA  PHAGI-GWALIOR  JABALPUR-ORAI  GWALIOR-ORAI  SATNA-ORAI	D/C D/C D/C D/C D/C D/C S/C S/C	0 0 0 0 0 0 0 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7
33 Import/E 34 35 36 37 38 39 40 41 42	Export of HVDC	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 0 0 0 0 0 0 0 691 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5
33  Import/E 34 35 36 37 38 39 40 41 42 43	HVDC Export of HVDC - 765 kV	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 D/C D/C S/C S/C S/C S/C	0 0 0 0 0 0 0 691 0 180	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2
33  Import/E 34 35 36 37 38 39 40 41 42 43 44	Export of HVDC	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	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 0 0 0 0 0 0 691 0 180 148	502  NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2 -2.4
33  Import/F 34 35 36 37 38 39 40 41 42 43	HVDC Export of HVDC - 765 kV	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	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	0 0 0 0 0 0 0 691 0 180 148 102 980	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2
33  Import/E 34 35 36 37 38 39 40 41 42 43 44 45	HVDC Export of HVDC - 765 kV	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	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	0 0 0 0 0 0 0 691 0 180 148	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2 -2.4 22.7
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45	HVDC Export of HVDC - 765 kV - 400 kV	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	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 0 0 0 0 0 0 691 0 180 148 102 980	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2	-12.1 -12.1 0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2 -2.4 22.7 -2
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47	HVDC Export of HVDC - 765 kV	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 -BHISMAL  V'CHAL -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 0 0 0 0 0 0 691 0 180 148 102 980 100	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5	-12.1 -12.1 -0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2 -2.4 22.7 -2 0.0
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47	HVDC Export of HVDC  765 kV  400 kV	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	0 0 0 0 0 0 691 0 180 148 102 980 100 111 41	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.0 1.2	-12.1 -12.1 -0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2 -2.4 22.7 -2 0.0 -1.1
33  Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	HVDC Export of HVDC - 765 kV - 400 kV	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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 691 0 180 148 102 980 100 111 41	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0	-12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -13.6 -42.2 -25.7 -32.8 -11.9 -27.7 -3.5 -0.2 -2.4 -22.7 -2 -0.0 -1.1 -0.8 -0.9 -0.0
33  Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV	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	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 691 0 180 148 102 980 100 111 41	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0	-12.1 -12.1
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV	BISWANATH CHARIALI-AGRA  WR (With NR)  CHAMPA-KURUKSHETRA  VCHAL B/B  APL -MHG  GWALIOR-AGRA  PHAGI-GWALIOR  JABALPUR-ORAI  GWALIOR-ORAI  SATNA-ORAI  CHITTORGARH-BANASKANTHA  ZERDA-KANKROLI  ZERDA-BHINMAL  VCHAL -RIHAND  RAPP-SHUJALPUR  BHANPURA-RANPUR  BHANPURA-RANPUR  BHANPURA-MORAK  MEHGAON-AURAIYA  MALANPUR-AURAIYA  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	0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7	-12.1 -12.1 -0.0 -8.1 -36.0 -42.2 -25.7 -32.8 -32.8 -32.8 -32.7 -27.7 -3.5 -3.5 -3.5 -3.6 -3.5 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6 -3.6
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV	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-KANKROLI  ZERDA-HIHAND  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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7	-12.1 -12.1
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53	HVDC  Export of  HVDC  765 kV  400 kV  132kV	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-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 691 0 180 148 102 980 100 11 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7	-12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -2.1 -
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54	HVDC  Export of  HVDC  765 kV  400 kV  132kV	BISWANATH CHARIALI-AGRA  WR (With NR)  CHAMPA-KURUKSHETRA  VCHAL B/B  APL-MHG  GWALIOR-AGRA  PHAGI-GWALIOR  JABALPUR-ORAI  SATNA-ORAI  CHITTORGARH-BANASKANTHA  ZERDA-KANKROLI  ZERDA-BHINMAL  VCHAL-RIHAND  RAPP-SHUJALPUR  BHANPURA-RANPUR  BHANPURA-MORAK  MEHGAON-AURAIYA  MALANPUR-AURAIYA  GWALIOR-SAWAI MADHOPUR  WR (With SR)  BHADRAWATI B/B  BARSUR-LSILERU  SOLAPUR-RAICHUR	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7	-12.1 -12.1
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 56 47 48 49 50 51  Import/F 52 53 54 55	#VDC  Export of  HVDC  765 kV  400 kV  220 kV  Export of  HVDC  765 kV	BISWANATH CHARIALI-AGRA  WR (With NR)  CHAMPA-KURUKSHETRA  VCHAL B/B  APL-MHG  GWALIOR-AGRA  PHAGI-GWALIOR  JABALPUR-ORAI  GWALIOR-ORAI  SATNA-ORAI  CHITTORGARH-BANASKANTHA  ZERDA-KANKROLI  ZERDA-BHINMAL  VCHAL-RIHAND  RAPP-SHUJALPUR  BHANPURA-RANPUR  BHANPURA-MORAK  MEHGAON-AURAIYA  MALANPUR-AURAIYA  GWALIOR-SAWAI MADHOPUR  WR (With SR)  BHADRAWATI B/B  BARSUR-L.SILERU  SOLAPUR-RAICHUR  WARDHA-NIZAMABAD	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7	-12.1 -12.1
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	HVDC Export of HVDC HVDC  765 kV  400 kV  132kV Export of HVDC	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-WARIAMA  MALANPUR-AURAIYA  MALANPUR-AURAIYA  MALANPUR-SAWAI MADHOPUR  WR (With SR)  BHADRAWATI B/B  BHASUR-L.SILERU  SOLAPUR-RAICHUR  WARDHA-NIZAMABAD  KOLHAPUR-KUDGI	D/C	0 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.3 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7 0.0	-12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -13.6 -42.2 -25.7 -32.8 -11.9 -27.7 -3.5 -3.5 -2.4 -2.4 -22.7 -2 -2 -0.0 -1.1 -0.8 -0.9 -0.0 -144.6 -21.1 -0.0 -26.1 -48.7 -13.6
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54 55	#VDC  Export of  HVDC  765 kV  400 kV  220 kV  Export of  HVDC  765 kV	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  GWALIOR-SAWAI MADHOPUR  WR (With SR)  BHANBAWATI B/B  BARSUR-LSILERU  SOLAPUR-RICHMICK  WARDHA-NIZAMABAD  KOLHAPUR-KUDGI  KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7	-12.1 -12.1
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54 55 56 57 58	#VDC  Export of  HVDC  765 kV  400 kV  132kV  Export of  HVDC  765 kV  400 kV	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  MALANPUR-AURAIYA  GWALIOR-SAWAI MADHOPUR  WR (With SR)  BHASUR-L.SILERU  SOLAPUR-RAICHUR  WARDHA-NIZAMABAD  KOLHAPUR-CHIKODI  PONDA-AMBEWADI	D/C	0 0 0 0 0 0 0 691 0 180 180 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	-12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -25.7 -32.8 -27.7 -3.5 -2.7 -2 -2 -2.0 -1.1 -2.1 -2.0 -1.1 -2.1 -2.0 -1.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54 55 56 57	#VDC  Export of  HVDC  765 kV  400 kV  132kV  Export of  HVDC  765 kV  400 kV	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  GWALIOR-SAWAI MADHOPUR  WR (With SR)  BHANBAWATI B/B  BARSUR-LSILERU  SOLAPUR-RICHMICK  WARDHA-NIZAMABAD  KOLHAPUR-KUDGI  KOLHAPUR-CHIKODI	D/C	0 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR  1012 0 2401 3128 0 0 65	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0	-12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -25.7 -32.8 -27.7 -3.5 -2.7 -2 -2 -2 -2 -2 -2 -2 -2 -1.1 -2.8 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54 55 56 57 58	#VDC  Export of  HVDC  765 kV  400 kV  132kV  Export of  HVDC  765 kV  400 kV	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  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/C S/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 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR  1012 0 2401 3128 0 0 65 99 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	-12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -12.1 -25.7 -32.8 -27.7 -3.5 -2.7 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54 55 56 57 58	#VDC  Export of  HVDC  765 kV  400 kV  132kV  Export of  HVDC  765 kV  400 kV	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  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/C S/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 0 0 0 0 0 0 691 0 180 180 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR  1012 0 2401 3128 0 0 65 99 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0	-12.1 -12.1 -12.1 -12.1  0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 0.2 -2.4 22.7 -2 0.0 -1.1 0.8 0.9 0.0 -144.6  -21.1 0.0 -26.1 -48.7 13.6 0.0 -1.0 1.8 -81.4
33  Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/F 52 53 54 55 56 57 58	#VDC  Export of  HVDC  765 kV  400 kV  132kV  Export of  HVDC  765 kV  400 kV	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  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/C S/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 0 0 0 0 0 0 691 0 180 148 102 980 100 111 41 90 145 0	502 NER-NR  0 490 1916 2496 1614 962 0 1372 768 160 403 0 428 95 124 0 9 0 WR-NR  1012 0 2401 3128 0 0 65 99 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.1 12.1 12.1 0.0 8.1 36.0 42.2 25.7 32.8 0.0 27.7 3.5 0.0 2.4 0.0 2 0.5 1.2 0.0 0.0 181.7 21.1 0.0 27.3 48.7 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0	-12.1 -12.1 -12.1 -12.1 -12.1  0.0 -8.1 -36.0 -42.2 -25.7 -32.8 11.9 -27.7 -3.5 -2.4 -22.7 -2 -2 -0.0 -1.1 -0.8 -0.9 -0.0 -144.6  -21.1 -26.1 -48.7 -13.6 -0.0 -1.0 -1.8