

## 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: 20<sup>th</sup>Jan 2019

Τо

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह, लापलंग, शिलोंग ७९३००६ Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,२९ , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 19.01.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जनवरी-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 19<sup>th</sup> January 2019, is available at the NLDC website.

धन्यवाद,

## पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day Date of Reporting 20-Jan-19

## A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46421	48249	39718	18147	2436	154971
Peak Shortage (MW)	876	0	0	267	29	1172
Energy Met (MU)	969	1123	900	364	43	3399
Hydro Gen (MU)	113	25	75	29	7	248
Wind Gen (MU)	6	22	39			67
Solar Gen (MU)*	18.35	21.65	70.26	0.82	0.02	111
Energy Shortage (MU)	14.5	0.3	0.0	0.8	0.4	16.0
Maximum Demand Met during the day	47060	55519	43627	18688	2460	159891
(MW) & time (from NLDC SCADA)	18:19	10:27	08:15	18:47	17:49	08:54

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	0.14	0.43	7.52	8.09	75.79	16.12

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	5645	0	114.9	32.6	-0.1	128	0.0
NR	Haryana	6476	263	129.5	79.0	0.4	141	1.4
	Rajasthan	12294	0	242.0	68.0	-0.2	370	0.0
	Delhi	4008	0	66.2	51.4	-1.0	246	0.0
	UP	14723	0	293.8	112.2	0.6	253	1.6
	Uttarakhand	2109	0	39.1	24.2	0.9	193	0.0
	HP	1614	0	29.3	24.7	-0.6	104	0.0
	J&K	2533	633	50.4	43.2	2.0	432	11.6
	Chandigarh	224	0	3.6	3.8	-0.2	11	0.0
	Chhattisgarh	3712	0	83.3	37.8	1.5	305	0.3
	Gujarat	15402	0	329.0	82.8	1.1	560	0.0
	MP	13678	0	250.8	139.0	-0.2	888	0.0
14/15	Maharashtra	20510	0	413.1	123.5	0.8	586	0.0
WR	Goa	498	0	12.0	8.7	2.7	50	0.0
	DD	339	0	6.9	6.6	0.3	41	0.0
	DNH	724	0	16.8	16.7	0.0	58	0.0
	Essar steel	535	0	11.0	10.9	0.1	289	0.0
	Andhra Pradesh	8221	0	165.2	69.3	0.3	459	0.0
	Telangana	9176	0	182.5	72.8	0.3	490	0.0
SR	Karnataka	11042	0	211.7	79.0	-0.4	418	0.0
JI.	Kerala	3408	0	66.1	53.8	0.7	200	0.0
	Tamil Nadu	13110	0	268.0	144.7	0.9	412	0.0
	Pondy	345	0	7.0	7.5	-0.5	45	0.0
	Bihar	4300	0	75.1	71.2	-1.2	460	0.0
	DVC	3131	0	69.7	-42.7	-0.5	396	0.0
ER	Jharkhand	1002	267	21.7	16.2	1.1	169	0.8
EN	Odisha	3948	0	74.0	25.5	0.9	267	0.0
	West Bengal	6577	0	122.6	26.5	-0.8	309	0.0
	Sikkim	92	0	1.3	1.8	-0.5	18	0.0
	Arunachal Pradesh	109	2	2.3	2.0	0.3	53	0.0
	Assam	1397	15	23.2	18.1	0.8	155	0.3
	Manipur	183	2	2.8	3.0	-0.2	31	0.0
NER	Meghalaya	375	0	6.6	5.2	0.3	43	0.0
	Mizoram	100	2	1.6	1.6	-0.2	22	0.0
	Nagaland	107	1	2.1	1.9	0.1	20	0.0
	Tripura	220	1	4.1	1.9	0.1	47	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.0	-5.8	-12.8
Day peak (MW)	54.2	-456.0	-819.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	165.7	-189.4	102.1	-80.0	1.5	-0.1
Actual(MU)	160.8	-192,2	100.6	-76.8	1.7	-5.9
O/D/U/D(MU)	-4.9	-2.8	-1.5	3.2	0.2	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2660	15677	6602	1990	155	27083
State Sector	10810	15608	10680	3915	50	41063
Total	13470	31285	17282	5905	204	68146

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	589	1167	473	437	9	2675
Lignite	22	19	60	0	0	101
Hydro	113	25	75	29	7	248
Nuclear	24	31	32	0	0	87
Gas, Naptha & Diesel	27	43	18	0	30	117
RES (Wind, Solar, Biomass & Others)	52	45	149	1	0	247
Total	827	1329	807	467	46	3475
Share of RES in total generation (%)	6.30	3 36	18 51	0.10	0.04	7 11

Share of RES in total generation (%)	6.30	3.36	18.51	0.19	0.04	7.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	22.85	7.56	31.67	6.31	16.00	16.74

H. Diversity Factor
All India Demand Diversity Factor
1.047
Diversity factor = Sum of regional maximum demands / All India maximum demand

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

		INTE	R-REGIO	ONAL EX	CHANGES			
						Date of 1	Reporting :	20-Jan-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	Export of	ER (With NR)	D/G		20.4	0.0	44.0	44.0
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	0	894 312	0.0	11.8 3.7	-11.8 -3.7
3	70211	GAYA-BALIA	S/C	0	293	0.0	2.8	-2.8
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	149	0.0	3.5	-3.5
6 7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	141 90	0.0	2.3	-2.3 -1.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	691	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	Q/C	0	1003	0.0	19.4	-19.4
10		BIHARSHARIFF-BALIA	D/C	0	376	0.0	5.7	-5.7
11		MOTIHARI-GORAKHPUR	D/C	0	412	0.0	7.7	-7.7
12	220 1-37	BIHARSHARIFF-VARANASI	D/C S/C	39	257 164	0.0	2.8 3.0	-2.8 -3.0
13	220 kV	PUSAULI-SAHUPURI SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	25	0	0.6	0.0	0.6
16	132 kV	KARMANASA-SAHUPURI	S/C	38	0	0.6	0.0	0.6
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	1.2	73.1	-71.9
_	xport of	ER (With WR)						
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1229	0	20.6	0.0	20.6
19		NEW RANCHI-DHARAMJAIGARH	D/C	255	387	0.0	1.6	-1.6
20	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	23 122	214 131	0.0	3.3 0.0	-3.3 0.5
22		BUDHIPADAR-RAIGARH	S/C	13	87	0.0	0.8	-0.8
23	220 kV	BUDHIPADAR-KORBA	D/C	96	35	1.0	0.0	1.0
					ER-WR	22.1	5.7	16.4
		ER (With SR)	1 1		T			
24 25		ANGUL-SRIKAKULAM JEYPORE-GAZUWAKA B/B	D/C D/C	0.0	1775.0 638.0	0.0	24.3 16.0	-24.3 -16.0
26	HVDC LINK	TALCHER-KOLAR BIPOLE	D/C D/C	0.0	1978.0	0.0	40.9	-40.9
27	400 kV	TALCHER-I/C	D/C	127.0	183.0	1.0	0.0	1.0
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	0.0	81.1	-81.1
		TIP (TTU-L SITER)						
_	Export of	ER (With NER)	D/C	201	0	5.4	0.0	5
29	Export of 400 kV	BINAGURI-BONGAIGAON	D/C	291 416	0	5.4	0.0	5
_			D/C D/C D/C	291 416 64	0 0 8	5.4 8.0 1.0	0.0 0.0 0.0	5 8 1
29	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	416	0	8.0	0.0	8
29 30 31 Import/F	400 kV 220 kV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	416 64	0 8 ER-NER	8.0 1.0 14.3	0.0 0.0 <b>0.0</b>	8 1 14.3
29 30 31 Import/F	400 kV 220 kV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	416	0 8 ER-NER	8.0 1.0 14.3	0.0 0.0 <b>0.0</b>	8 1 14.3
29 30 31 Import/E 32	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA	D/C	416 64	0 8 ER-NER	8.0 1.0 14.3	0.0 0.0 <b>0.0</b>	8 1 14.3
29 30 31 Import/E 32	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	416 64	0 8 ER-NER	8.0 1.0 14.3	0.0 0.0 <b>0.0</b>	8 1 14.3
29 30 31 Import/E 32	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR)	D/C D/C	416 64 666	0 8 ER-NER 0 NER-NR	8.0 1.0 14.3 16.2 16.2	0.0 0.0 <b>0.0</b> 0.0	8 1 14.3 16.2 16.2
29 30 31 Import/E 32 Import/E 33 34 35	220 kV Export of HVDC Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG	D/C D/C  - D/C  D/C  D/C  D/C  D/C	416 64 666 0 241 0	0 8 ER-NER 0 NER-NR 953 0 1457	8.0 1.0 14.3 16.2 16.2 0.0 6.0	0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2
29 30 31 Import/F 32 Import/F 33 34 35 36	220 kV Export of HVDC Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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  D/C  D/C	416 64 666 0 241 0	0 8 ER-NER 0 NER-NR 953 0 1457 975	8.0 1.0 14.3 16.2 16.2 0.0 6.0 0.0	0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6
29 30 31 Import/F 32 Import/F 33 34 35 36 37	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  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  D/C  D/C	416 64 666 0 241 0 0	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169	8.0 1.0 14.3 16.2 16.2 0.0 6.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6 17.4	8 1 14.3 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4
29 30 31 Import/F 32 Import/F 33 34 35 36	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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  D/C  D/C	416 64 666 0 241 0	0 8 ER-NER 0 NER-NR 953 0 1457 975	8.0 1.0 14.3 16.2 16.2 0.0 6.0 0.0	0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  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	416 64 666 0 241 0 0 0	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542	8.0 1.0 14.3 16.2 16.2 0.0 6.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6 17.4 20.3	8 1 14.3 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI	D/C	0 241 0 0 0 0 0 0 0 107	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542 0 1156	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6 17.4 20.3 0.0	8 1 14.3 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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	0 0 241 0 0 0 0 0 625 0 107	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542 0 1156 155	8.0 1.0 14.3 16.2 16.2 16.2 0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6 17.4 20.3 0.0 23.8 0.1	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43	220 kV 220 kV Export of HVDC Export of HVDC 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C D/C C D/C S/C S/C S/C S/C	0 0 241 0 0 0 0 625 0 107 14	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542 0 1156 155	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 33.2 34.6 17.4 20.3 0.0 23.8 0.1 1.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42	220 kV 220 kV Export of HVDC Export of HVDC 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	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 D/C	0 0 241 0 0 0 0 625 0 107 14 981 273	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542 0 1156 155	8.0 1.0 14.3 16.2 16.2 16.2 0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 22.6 0.0 33.2 34.6 17.4 20.3 0.0 23.8 0.1	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0
29 30 31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44	400 kV 220 kV Export of HVDC Export of HVDC 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C D/C C D/C S/C S/C S/C S/C	0 0 241 0 0 0 0 625 0 107 14	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542 0 1156 155 180 0	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 33.2 34.6 17.4 20.3 0.0 23.8 0.1 1.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0
29 30 31 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43 44 44	220 kV 220 kV Export of HVDC Export of HVDC 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-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	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36	0 8 ER-NER 0 NER-NR 953 0 1457 975 1169 542 0 1156 155 180 0	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 11.3 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 0.0 0.0	8 1 14.3 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	400 kV 220 kV Export of HVDC Export of HVDC 765 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	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 S/C S/C S/C S/C S	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7
29 30 31 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	400 kV 220 kV Export of HVDC Export of HVDC 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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	0 241 0 0 0 0 0 0 625 0 107 14 273 36 20	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV 220 kV 220 kV 2xport of HVDC 400 kV 400 kV 220 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	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 S/C S/C S/C S/C S	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Approximately 400 kV 400 kV 220 kV 132kV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	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 S/C S/C S/C S/C S	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0
29 30 31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Avport of HVDC Avport of HVDC Avport of Avport of Avport of Avport of Avport of Avport of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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 0 241 0 0 0 625 0 107 14 981 273 36 20 122 68	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 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 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5
29 30 31 31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E	400 kV 220 kV Export of HVDC Apport of HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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	981 273 36 20 0 0 0 0 0 0 0 0 0 0 0 0 107 14 981 273 36 20 0 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR	8.0 1.0 14.3 16.2 16.2 16.2 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53	400 kV 220 kV Export of HVDC Apport of HVDC T65 kV  220 kV  220 kV  132kV Export of HVDC LINK 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4
29 30 31  Import/E 32  Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/E 50 51 52 53 54	400 kV 220 kV Export of HVDC Apport of HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU 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	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 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 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53 54 55	400 kV 220 kV Export of HVDC Apport of HVDC Apport of HVDC Apport of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C   D/C   D/C   D/C   D/C   D/C   S/C   S/C	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0 0	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 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 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7 0.0
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53 54 55 56	400 kV 220 kV Export of HVDC Apport of HVDC Apport of HVDC Apport of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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	D/C   D/C   D/C   D/C   D/C   S/C   S/C	416 64 666  0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0 1003 0 1	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0 0 0	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 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 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7 0.0 0.0
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53 54 55	400 kV 220 kV Export of HVDC Apport of HVDC Apport of HVDC Apport of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C   D/C   D/C   D/C   D/C   D/C   S/C   S/C	416 64 666 0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0 0	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.7 0.0 0.0 0.0 13.7 0.0 0.0 11.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7 0.0 0.0 1.1
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53 54 55 56	400 kV 220 kV Export of HVDC Apport of HVDC Apport of HVDC Apport of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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   S/C   S/C	416 64 666  0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0 1003 0 1 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0 0 0 64 WR-SR	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 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 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7 0.0 0.0
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53 54 55 56	400 kV 220 kV Export of HVDC Apport of HVDC Apport of HVDC Apport of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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   S/C   S/C	416 64 666  0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0 1003 0 1	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0 0 0 64 WR-SR	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.7 0.0 0.0 0.0 13.7 0.0 0.0 11.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7 0.0 0.0 1.1 -61.2
29 30 31  Import/F 32  Import/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49  Import/F 50 51 52 53 54 55 56 57	400 kV 220 kV Export of HVDC Apport of HVDC Apport of HVDC Apport of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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   S/C   S/C	416 64 666  0 241 0 0 0 0 625 0 107 14 981 273 36 20 122 68 0 0 0 1003 0 1 0	0 8 ER-NER  0 NER-NR  953 0 1457 975 1169 542 0 1156 155 180 0 170 32 104 0 6 0 WR-NR  1002 0 2528 2178 0 0 0 64 WR-SR	8.0 1.0 14.3 16.2 16.2 16.2 0.0 6.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 21.5 0 0.8 0.0 1.7 0.7 0.0 42.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.7 0.0 0.0 0.0 13.7 0.0 0.0 11.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 1 14.3 16.2 16.2 16.2 -22.6 6.0 -33.2 -34.6 -17.4 -20.3 11.3 -23.8 -0.1 -1.0 21.5 0 0.8 -0.8 1.7 0.7 0.0 -111.5 -23.9 0.0 -26.7 -25.4 13.7 0.0 0.0 1.1