

## 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: 11<sup>th</sup> 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 10.01.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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  $10^{th}$  Jan 2020, is available at the NLDC website.

धन्यवाद,

Report for previous day Date of Reporting 11-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)	48772	46710	39733	18340	2429	155984
Peak Shortage (MW)	629	0	0	140	39	808
Energy Met (MU)	989	1088	988	348	42	3455
Hydro Gen (MU)	117	35	83	32	7	274
Wind Gen (MU)	30	96	45			171
Solar Gen (MU)*	32.10	25.96	83.16	1.25	0.04	143
Energy Shortage (MU)	12.6	0.0	0.0	0.4	1.1	14.1
Maximum Demand Met during the day (MW) & time	50262	52613	45246	18499	2512	165576
(from NLDC SCADA)	09:43	10:29	09:33	18:32	17:33	09:32

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	0.040	0.00	0.72	4.26	4.98	73.52	21.50

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	5925	0	113.0	55.5	-1.3	61	0.0
	Haryana	6742	0	129.7	84.7	0.6	194	0.0
NR	Rajasthan	13706	0	243.4	63.8	-3.3	320	0.0
	Delhi	4802	0	79.7	64.5	0.5	299	0.0
	UP	16273	0	295.1	119.2	1.4	757	0.0
	Uttarakhand	2149	0	40.1	23.4	0.6	251	0.0
	HP	1671	0	30.2	24.0	-0.1	213	0.0
	J&K(UT) and Ladakh(UT)	2515	629	53.2	47.4	0.5	424	12.6
	Chandigarh	287	0	4.6	4.7	-0.1	39	0.0
	Chhattisgarh	3389	0	67.7	22.7	-8.9	188	0.0
	Gujarat	15204	0	313.9	68.1	-5.6	718	0.0
	MP	13317	0	236.6	110.7	-4.0	373	0.0
WR	Maharashtra	21202	0	427.0	138.5	-1.1	498	0.0
WK	Goa	511	0	13.4	10.2	2.7	43	0.0
	DD	308	0	6.3	6.4	-0.1	45	0.0
	DNH	776	0	17.6	17.7	-0.1	30	0.0
	Essar steel	319	0	5.8	6.2	-0.3	240	0.0
	Andhra Pradesh	8521	0	171.5	65.2	-0.7	323	0.0
	Telangana	10570	0	210.3	106.9	-0.3	228	0.0
SR	Karnataka	12458	0	226.8	62.4	-1.0	457	0.0
JK.	Kerala	3616	0	73.4	55.7	1.5	164	0.0
	Tamil Nadu	14419	0	298.5	148.6	-1.8	520	0.0
	Pondy	359	0	7.3	7.6	-0.3	39	0.0
	Bihar	4472	0	80.2	78.1	0.9	181	0.0
	DVC	3061	0	64.9	-27.5	1.9	201	0.0
ER	Jharkhand	1351	0	24.4	17.6	-0.8	103	0.4
EN	Odisha	3574	0	65.4	8.2	0.3	205	0.0
	West Bengal	6266	0	110.9	28.2	-0.3	211	0.0
	Sikkim	140	0	2.0	1.6	0.4	56	0.0
	Arunachal Pradesh	119	2	2,2	1.8	0.3	6	0.0
	Assam	1371	18	22.4	19.6	-0.1	146	0.5
	Manipur	204	3	2.7	3.1	-0.4	26	0.0
NER	Meghalaya	377	0	6.5	3.1	0.9	90	0.5
	Mizoram	104	1	1.6	1.5	-0.1	50	0.0
	Nagaland	124	2	2.2	2.1	0.0	32	0.0
	Tripura	226	0	4.1	2.5	-0.1	13	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.5	-10.1	-7.1
Day peak (MW)	517.1	-549.2	-553.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	225.4	-271.4	116.8	-73.9	2.7	-0.4
Actual(MU)	224.3	-304.4	127.6	-60.7	5.2	-8.0
O/D/U/D(MU)	-1.1	-33.0	10.8	13.2	2.5	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4363	16140	6252	2810	732	30296
State Sector	10790	17268	6940	5250	11	40259
Total	15153	33407	13192	8060	743	70555

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	504	1162	506	399	11	2582
Lignite	16	14	44	0	0	74
Hydro	117	35	83	32	7	274
Nuclear	30	25	41	0	0	95
Gas, Naptha & Diesel	27	38	18	0	22	105
RES (Wind, Solar, Biomass & Others)	89	141	177	1	0	409
Total	783	1414	869	432	41	3539

Share of RES in total generation (%)	11.39	9.98	20.37	0.30	0.10	11.55
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.21	14.19	34.55	7.67	18.18	21.98

H. All India Demand Diversity Factor

11 111 maia Demana Diversity Tuctor	
Based on Regional Max Demands	1.021
Based on State Max Demands	1.090

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

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

		<u>IN</u>	rer-regi	ONAL EXCHA	ANGES	Date of 1	Reporting :	11-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	501 297	0.0	7.3	-12.1 -7.3
1		GAYA-VARANASI	D/C	105	918	0.0	10.2	-10.2
2	765kV	SASARAM-FATEHPUR	S/C	145	262	0.0	1.8	-1.8
3		GAYA-BALIA	S/C	0	398	0.0	3.3	-3.3
6		PUSAULI-VARANASI	S/C	0	258	0.0	5.1	-5.1
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.0	-2.0
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	0	550 797	0.0	2.8	-2.8 -11.7
10	400 K	BIHARSHARIFF-BALIA	D/C	26	320	0.0	2.9	-2.9
11		MOTIHARI-GORAKHPUR	D/C	1	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	202	185	1.0	0.0	1.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	151	0.0	2.7	-2.7
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	vnert of	FR (With WP)			ER-NR	1.6	42.4	-40.8
-	лрогі оі	ER (With WR)	1					Τ
18	765 1.37	JHARSUGUDA-DHARAMJAIGARH	Q/C	1572	0	16.3	0.0	16.3
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	688	0	10.0	0.0	10.0
20		JHARSUGUDA-DURG	D/C	1000117	341	0.0	0.4	-0.4 1.8
22	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	350 255	186	4.8	0.0	4.8
23		BUDHIPADAR-RAIGARH	S/C	26	87	0.0	0.9	-0.9
24	220 kV	BUDHIPADAR-KORBA	D/C	216	0	3.1	0.0	3.1
			l		ER-WR	36.1	1.3	34.8
Import/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	17.0	2460.0	0.0	15.3	-15.3
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2014.0	0.0	39.2	-39.2
28	400 kV	TALCHER-I/C	D/C	1604.0	1472.0	18.4	0.0	18.4
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0 ER-SR	0.0	0.0 <b>70.6</b>	0.0 - <b>70.6</b>
Import/F	Export of	ER (With NER)			ER-5R	0.0	70.0	-70.0
	inport or							
30		BINAGURI-BONGAIGAON	D/C	0	408	0.0	5.3	-5
30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	137	408 178	0.0	5.3	-5 0
	400 kV 220 kV				1			1
31		ALIPURDUAR-BONGAIGAON	D/C	137	178	0.1	0.0	0
31 32 <b>Import/E</b>	220 kV Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	137	178 80 ER-NER	0.1 0.0 <b>0.1</b>	0.0 0.7 <b>6.0</b>	0 -1 -5.9
31 32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	137	178 80 ER-NER	0.1 0.0 <b>0.1</b>	0.0 0.7 <b>6.0</b>	0 -1 -5.9
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA	D/C D/C	137	178 80 ER-NER	0.1 0.0 <b>0.1</b>	0.0 0.7 <b>6.0</b>	0 -1 -5.9
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR)	D/C D/C	137 6	178 80 ER-NER 0 NER-NR	0.1 0.0 <b>0.1</b> 0.0 0.0	0.0 0.7 <b>6.0</b> 0.0 <b>0.0</b>	0 -1 -5.9
31 32 Import/E 33 Import/E 34	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C - D/C	0 0	178 80 ER-NER 0 NER-NR	0.1 0.0 <b>0.1</b> 0.0 0.0	0.0 0.7 <b>6.0</b> 0.0 <b>0.0</b>	0 -1 -5.9 0.0 0.0
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR)	D/C D/C	137 6	178 80 ER-NER 0 NER-NR	0.1 0.0 <b>0.1</b> 0.0 0.0	0.0 0.7 <b>6.0</b> 0.0 <b>0.0</b> 42.5	0 -1 -5.9
31 32 Import/E 33 Import/E 34 35	220 kV Export of HVDC Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C  - D/C  D/C	0 0 0 449	178 80 ER-NER 0 NER-NR 2359	0.1 0.0 <b>0.1</b> 0.0 <b>0.0</b> 0.0 0.0	0.0 0.7 <b>6.0</b> 0.0 <b>0.0</b>	0 -1 -5.9 0.0 0.0 -42.5 6.5
31 32 Import/E 33 Import/E 34 35 36	220 kV Export of HVDC Export of	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	137 6 0 0 449 0	178 80 ER-NER 0 NER-NR 2359 0	0.1 0.0 0.1 0.0 0.0 0.0 0.0 6.5	0.0 0.7 <b>6.0</b> 0.0 <b>0.0</b> 42.5 0.0 43.6	0 -1 -5.9 0.0 0.0 -42.5 6.5 -43.6
31 32 Import/E 33 Import/E 34 35 36 37	220 kV Export of HVDC Export of HVDC	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	0 0 449 0	178 80 ER-NER 0 NER-NR 2359 0 1924 2608	0.1 0.0 0.1 0.0 0.0 0.0 0.0 6.5 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8	0 -1 -5.9 0.0 0.0 -42.5 6.5 -43.6 -43.8
31 32 Import/E 33 Import/E 34 35 36 37 38	220 kV Export of HVDC Export of	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	0 0 0 449 0 0	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0	0.1 0.0 0.1 0.0 0.0 0.0 0.0 6.5 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6	0 -1 -5.9 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41	220 kV Export of HVDC Export of HVDC	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	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	0 0 449 0 0 0 0 723	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446	0.1 0.0 0.1 0.0 0.0 0.0 6.5 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9	0 -1 -5.9 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42	220 kV Export of HVDC Export of HVDC	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 CHITTORGARH-BANASKANTHA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C D/C	0 0 0 449 0 0 0 0 0 723 0	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446 992	0.1 0.0 0.1 0.0 0.0 0.0 6.5 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43	220 kV Export of HVDC Export of HVDC	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	D/C	0 0 0 449 0 0 0 0 0 723 0	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446 992 128	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of HVDC Export of HVDC	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 449 0 0 0 0 723 0 193 175 259	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446 992 128 238	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.8	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	220 kV Export of HVDC Export of HVDC - 765 kV	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C	0 0 449 0 0 0 0 0 723 0 193 175 259 971	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446 992 128 238 0	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of HVDC Export of HVDC - 765 kV	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 GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C	0 0 449 0 0 0 0 0 723 0 193 175 259 971 226	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.8 0.0	0 -1 -5.9 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47	220 kV Export of HVDC Export of HVDC - 765 kV	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	D/C	0 0 449 0 0 0 0 0 723 0 175 259 971 226 31	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 14446 992 128 238 0 329 57	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	220 kV Export of HVDC Export of HVDC - 765 kV	ALIPURDUAR-BONGAIGAON 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	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	0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV Export of HVDC Export of HVDC - 765 kV	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 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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0 0.0 10.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0 0.0 -1.1
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	220 kV Export of HVDC Export of HVDC - 765 kV	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 CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -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 D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31	178 80 ER-NER 0 NER-NR 2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	D/C	0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 38	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0 0.0 -1.1
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV  Export of HVDC  Export of HVDC  - 765 kV  - 400 kV  - 132kV	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 CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 38	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0 0.0 10.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0 0.0 -1.1 0.9
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV Export of HVDC Export of HVDC  400 kV  220 kV	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 38	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0 0.0 10.0	0 -1 -5.9 0.0 0.0 0.0 -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0 0.0 -1.1 0.9
31 32  Import/E 33  Import/E 34 35 36 37 38 39 40 41 42 43 44 45 50 51  Import/E 52 53	220 kV  Export of HVDC  Export of HVDC  - 765 kV  - 400 kV  - 132kV	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 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	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	137 6 0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 38 0 WR-NR	0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 -1 -5.9 -0.0 -0.0 -42.5 -6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 -22.2 0 0.0 -1.1 0.9 0.0 -175.2
31 32  Import/E 33  Import/E 34 35 36 37 38 39 40 41 42 43 44 45 50 51  Import/E 52 53 54	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC	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 CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRUR-LSILERU SOLAPUR-RAICHUR	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	137 6 0 0 449 0 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 38 0 WR-NR	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.8 0.0 0.0 0.0 0.0 0.0	0 -1 -5.9  0.0 0.0 0.0  -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0 0.0 -1.1 0.9 0.0 0.0 -175.2
31 32  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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC - 765 kV	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 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 BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C	137 6 0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 38 0 WR-NR	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 27.9 10.0 0.0 0.8 0.0 0.0 0.0 0.0 0.0	0 -1 -5.9  0.0 0.0 0.0  -42.5 6.5 -43.6 -43.8 -15.6 -30.5 10.7 -27.9 -10.0 0.3 -0.8 22.2 0 0.0 -1.1 0.9 0.0 0.0 -175.2
31 32  Import/E 33  Import/S 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51  Import/E 52 53 54	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC	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 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 BHASPUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C	0 0 0 449 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 1118 0 38 0 WR-NR	0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.2 7.9 10.0 0.0 0.2 0.0 0.2 1.1 0.0 0.2 0.0 1.1 0.0 1.1 0.0 1.1 0.0 1.1 0.0 1.1 0.0 1.1 0.0 1.1 0.0 1.1 0.0 1.1 0.0 0.0	0 -1 -1 -5.9 -0.0 -0.0 -1.1 -0.9 -0.0 -1.1 -23.9 -0.0 -23.9 -0.0 -31.1 -40.7 -6.2
31 32 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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC - 765 kV	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 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 KOLHAPUR-CHIKODI	D/C	0 0 449 0 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 WR-NR  1006 0 2357 2256 0 0	0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1 -5.9 -0.0 -1.1 -1.0 -0.0 -1.1 -0.9 -1.1 -23.9 -23.9 -23.9 -31.1 -40.7 -6.2 -0.0 -1.1 -1.1 -5.2 -5.9 -1.1 -1.1 -5.2 -1.1 -5.2 -1.1 -5.9 -1.1 -5.2 -1.
31 32  Import/E 33  Import/F 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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC - 765 kV	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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARM MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C	0 0 449 0 0 0 0 0 723 0 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 WR-NR  1006 0 2357 2256 0 0 0	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1 -5.9 -0.0 -0.0 -1.1 -0.9 -0.0 -1.1 -0.9 -1.1 -23.9 -23.9 -23.1 -40.7 -6.2 -0.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0
31 32 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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC - 765 kV	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 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 KOLHAPUR-CHIKODI	D/C	0 0 449 0 0 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 0 WR-NR  1006 0 0 2357 2256 0 0 0 90	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1 -5.9 -0.0 -0.0 -1.1 -0.9 -1.1 -0.9 -1.1 -40.7 -6.2 -0.0 -1.7 -5.9 -1.7 -5.9 -1.7 -5.9 -1.7 -5.9 -1.1 -40.7 -6.2 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7
31 32 (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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC - 765 kV	ALIPURDUAR-BONGAIGAON 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-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-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	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	137 6 0 0 449 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0 0 0 0 0 0 0 0 0 0 0 0 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 0 WR-NR  1006 0 0 2357 2256 0 0 0 0 90 WR-SR	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1 -5.9 -0.0 -1 -1 -5.9 -1 -1 -5.9 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
31 32 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 59	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC - 765 kV	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 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	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	0 0 449 0 0 0 0 0 723 0 0 193 175 259 971 226 31 19 86 37 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 0 WR-NR  1006 0 0 2357 2256 0 0 0 0 90 WR-SR	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1 -5.9
31 32 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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of HVDC - 765 kV	ALIPURDUAR-BONGAIGAON 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-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-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	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	137 6 0 0 449 0 0 0 0 0 723 0 193 175 259 971 226 31 19 86 37 0 0 0 0 0 0 0 0 0 0 0 0 0	178 80 ER-NER  0 NER-NR  2359 0 1924 2608 1399 975 0 1446 992 128 238 0 329 57 118 0 0 WR-NR  1006 0 0 2357 2256 0 0 0 0 90 WR-SR	0.1 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.7 6.0 0.0 0.0 0.0 0.0 42.5 0.0 43.6 43.8 15.6 30.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1 -5.9 -10.0