

# 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: 11<sup>th</sup> Oct 2018

To,

- कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता 700033
   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 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 10.10.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अक्टूबर-2018 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  $10^{th}$  October 2018, 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 11-Oct-18

#### A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	47561	53653	43538	20536	2501	167789
Peak Shortage (MW)	1987	82	0	427	111	2607
Energy Met (MU)	1093	1272	976	442	44	3827
Hydro Gen (MU)	200	45	120	83	17	466
Wind Gen (MU)	7	13	34			54
Solar Gen (MU)*	19.32	20.1	59.48	0.59	0.03	100
Energy Shortage (MU)	20.6	8.0	0.0	1.3	1.2	31.1
Maximum Demand Met during the day	49475	56697	43642	20698	2488	170636
(MW) & time (from NLDC SCADA)	18:46	11:03	18:48	18:53	18:18	18:48

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	0.044	0.00	0.13	12.38	12.51	80.97	6.52

wer Supply Position in Stat

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	7146	0	163.8	28.5	-0.3	116	0.0
	Haryana	7751	0	153.9	89.9	4.6	425	0.0
	Rajasthan	10486	0	224.3	35.9	3.8	454	0.0
	Delhi	4559	0	94.3	65.0	-0.1	235	0.0
NR	UP	15900	670	347.3	136.6	0.1	277	9.9
	Uttarakhand	1772	0	37.2	12.4	0.8	122	1.1
	HP	1430	0	27.7	9.7	2.1	263	0.0
	J&K	2153	538	40.5	33.1	-3.2	248	9.6
	Chandigarh	206	0	3.9	3.8	0.1	28	0.0
	Chhattisgarh	4290	0	101.2	35.5	-2.7	77	0.0
	Gujarat	17326	0	378.0	121.5	8.8	998	0.0
	MP	10468	0	232.9	114.9	0.4	575	0.0
WR	Maharashtra	24826	680	517.7	195.2	8.5	677	8.0
WK	Goa	540	0	10.7	10.1	-0.1	43	0.0
DD	DD	298	0	6.8	6.1	0.7	74	0.0
	DD DNH	780	0	18.2	17.0	1.2	102	0.0
	Essar steel	348	0	6.5	6.0	0.5	311	0.0
	Andhra Pradesh	8804	0	190.5	62.6	4.1	774	0.0
	Telangana	10425	0	228.0	120.4	3.5	656	0.0
SR	Karnataka	9380	0	197.4	28.8	2.6	574	0.0
3N	Kerala	3427	0	68.2	39.0	0.9	252	0.0
	Tamil Nadu	13393	0	285.2	135.7	0.6	541	0.0
	Pondy	341	0	7.1	7.4	-0.1 0.1 0.8 2.1 -3.2 0.1 -2.7 8.8 0.4 8.5 -0.1 0.7 1.2 0.5 4.1 3.5 2.6 0.9	46	0.0
	Bihar	5098	0	94.2	92.1	-0.6	325	0.0
	DVC	2883	0	61.2	-20.9	1.4	498	1.1
ER	Jharkhand	1086	-43	24.8	16.9	1.2	189	0.1
EN	Odisha	4947	0	110.0	39.8	0.5	365	0.0
	West Bengal	7647	0	150.5	34.8	1.4	445	0.0
	Sikkim	96	0	1.3	1.2	0.1	-	0.0
	Arunachal Pradesh	118	1	2.2	2.1	0.0	-	0.0
	Assam	1625	54	27.2	21.1	1.4	183	1.1
	Manipur	157	2	2.4	2.3	0.1	25	0.0
NER	Meghalaya	272	0	4.6	3.0	-0.5	84	0.0
	Mizoram	89	2	1.6	0.8	0.4	11	0.0
	Nagaland	113	1	2.3	1.8	0.0	9	0.0
	Tripura	247	2	3.8	3.4	-1.2	-	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	13.1	-2.9	-20.3
Day peak (MW)	766.6	-168.0	-887.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	106.5	-114.3	67.6	-56.8	-1.4	1.6
Actual(MU)	82.3	-104.2	76.4	-45.6	-3.2	5.7
O/D/U/D(MU)	-24.2	10.1	8.8	11.3	-1.8	4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3519	13392	6722	1600	426	25659
State Sector	6475	12224	7580	5495	21	31795
Total	9994	25616	14302	7095	447	57454

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	685	1207	590	421	5	2909
Hydro	200	45	120	83	17	466
Nuclear	18	12	34	0	0	64
Gas, Naptha & Diesel	70	90	24	0	29	213
RES (Wind, Solar, Biomass & Others)	44	34	136	1	0	214
Total	1017	1389	904	504	51	3866
Share of RES in total generation (%)	4.30	2.45	15.03	0.12	0.06	5.54
Share of Non-fossil fuel (Hydro, Nuclear and	25.76	6.53	32.11	16.58	33.97	19.25

H. Diversity Factor

RES) in total generation (%)

All I	ndia Dei	nand I	Diver	sity	Fac	tor		1.014	

Diversity factor = Sum of regional maximum demands / All India maximum demand

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

1		INTE	INTER-REGIONAL EXCHANGES  Date of Reporting:		11-Oct-18			
								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)
<u> </u>	export of l	ER (With NR)	T = /a					
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	335 395	14 0	3.5 7.0	0.0	3.5 7.0
3	70511	GAYA-BALIA	S/C	38	159	0.0	1.7	-1.7
4	HVDC	ALIPURDUAR-AGRA	-	0	1001	0.0	22.8	-22.8
5	пурс	PUSAULI B/B	S/C	0	397	0.0	9.7	-9.7
6		PUSAULI-VARANASI	S/C	0	323	0.0	7.1	-7.1
7		PUSAULI -ALLAHABAD	S/C	0	133	0.0	2.5	-2.5
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C Q/C	276 0	185 505	0.4	8.2	-8.2
10	400 K	BIHARSHARIFF-BALIA	D/C	113	53	0.0	0.2	-0.2
11		MOTIHARI-GORAKHPUR	D/C	0	283	0.0	4.8	-4.8
12	1	BIHARSHARIFF-VARANASI	D/C	309	0	3.9	0.0	3.9
13	220 kV	PUSAULI-SAHUPURI	S/C	0	203	0.0	4.2	-4.2
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	0	0	0.6	0.0	0.6
16	102 RV	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	Export of 1	ER (With WR)			ER-NR	15.3	61.1	-45.8
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1218	0	19.0	0.0	19.0
19	703 KV	NEW RANCHI-DHARAMJAIGARH	D/C	516	138	3.5	0.0	3.5
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	641	0	10.0	0.0	10.0
21	-00 KV	RANCHI-SIPAT	D/C	321	0	4.9	0.0	4.9
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	2	0.0	0.0	0.0
23		BUDHIPADAR-KORBA	D/C	209	0 ER-WR	3.9 <b>41.3</b>	0.0	3.9 <b>41.3</b>
Import/E	Export of 1	ER (With SR)			ER-WK	41.3	0.0	41.3
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1959.0	0.0	31.0	-31.0
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	630.0	0.0	11.2	-11.2
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2260.0	0.0	38.3	-38.3
27	400 kV	TALCHER-I/C	D/C	0.0	1023.0	0.0	0.7	-0.7
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
I	·	ED (WALNED)			ER-SR	0.0	80.5	-80.5
29	xport of	ER (With NER) BINAGURI-BONGAIGAON	D/C	0	617	0.0	9.8	-10
29	400 kV							
30	-00 KV		<del>                                     </del>	126				
30 31	220 kV	ALIPURDUAR-BONGAIGAON	D/C D/C	126	180	0.3	0.0	0
			D/C	126 3				
31 Import/E	220 kV Export of I	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	3	180 111 ER-NER	0.3 0.0 <b>0.3</b>	0.0 1.4 11.2	0 -1 -11.0
31  Import/E	220 kV Export of I	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	-	180 111 ER-NER	0.3 0.0 <b>0.3</b>	0.0 1.4 11.2	0 -1 -11.0
31 Import/E 32	220 kV Export of I HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA	D/C	3	180 111 ER-NER	0.3 0.0 <b>0.3</b>	0.0 1.4 11.2	0 -1 -11.0
Import/E 32 Import/E	220 kV Export of I HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR)	D/C D/C	0	180 111 ER-NER 703 NER-NR	0.3 0.0 0.3 0.0 0.0	0.0 1.4 11.2 15.6 15.6	0 -1 -11.0 -15.6 -15.6
31 Import/E 32	220 kV Export of I HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA	D/C	3	180 111 ER-NER	0.3 0.0 <b>0.3</b>	0.0 1.4 11.2	0 -1 -11.0
Import/E 32 Import/E 33	220 kV Export of I HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C - D/C	0 0	180 111 ER-NER 703 NER-NR	0.3 0.0 0.3 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6	0 -1 -11.0 -15.6 -15.6
31 Import/E 32 Import/E 33 34	220 kV Export of I HVDC	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 0 240	180 111 ER-NER 703 NER-NR 953	0.3 0.0 0.3 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 6.0
31 Import/E 32 Import/E 33 34 35	220 kV Export of N HVDC 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	D/C D/C  D/C  D/C  D/C  D/C  D/C	0 0 240 0 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6
31 Import/E 32 Import/E 33 34 35 36 37 38	220 kV Export of N HVDC HVDC	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	D/C D/C  D/C  D/C  D/C  D/C  D/C  D/C	0 240 0 0 0 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2
31 Import/E 32 Import/E 33 34 35 36 37 38 39	220 kV Export of N HVDC 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	D/C D/C  D/C  D/C  D/C  D/C  D/C  D/C	0 240 0 0 0 0 251 328	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2	-15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40	220 kV Export of N HVDC 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	0 240 0 0 0 0 0 251 328	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41	220 kV Export of N HVDC 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 ZERDA-KANKROLI	D/C	0 240 0 0 0 0 251 328 0 455	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 9.1
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 41	220 kV Export of N HVDC HVDC	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 ZERDA-KANKROLI ZERDA-BHINMAL	D/C	0 0 240 0 0 0 0 251 328 0 455 330	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 9.1 -6.2
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43	220 kV Export of 1 HVDC Export of V 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C	0 0 240 0 0 0 251 328 0 455 330 489	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 9.1
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 41	220 kV Export of 1 HVDC Export of V 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 ZERDA-KANKROLI ZERDA-BHINMAL	D/C	0 0 240 0 0 0 0 251 328 0 455 330	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 9.1 -6.2 -11.6
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of I HVDC Export of V 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C	0 240 0 0 0 0 251 328 0 455 330 489 418	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45	220 kV Export of 1 HVDC Export of V 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 ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6
31  Import/E 32  Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of I HVDC Export of V 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	D/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109 123	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1
31  Import/E 32  Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	220 kV Export of I HVDC Export of V 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C	0 240 0 0 0 251 328 0 455 330 489 418 109 123 168	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 0 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1.0 -15.6 -15.6 -15.6 -15.6 -15.0 -8.6 -1.2 -6.2 -30.1 9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV Export of I HVDC Export of V 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	3 0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1.0 -15.6 -15.6 -15.6 -15.0 -8.6 -1.2 -6.2 -30.1 9.1 -6.2 -11.6 -3 3 -2.6 -2.1 -3.2 -2.2
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	220 kV Export of I HVDC Export of V HVDC 765 kV 400 kV 132kV Export of V	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 BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR)	D/C	3 0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -15.6 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 9.1 6.2 11.6 3 2.6 2.1 3.2 2.2 0.0 -49.6
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV Export of I HVDC  Export of V HVDC  765 kV  400 kV  132kV  Export of V 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	3 0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 0 0 0 0	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -1.0 -15.6 -15.6 -15.6 -15.6 -15.0 -8.6 -1.2 -6.2 -30.1 9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0
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	220 kV Export of I HVDC  Export of V HVDC  765 kV  400 kV  132kV  Export of V HVDC  LINK	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-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B	D/C	3 0 0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 0 0 0 0 0 WR-NR	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.0 14.6 15.0 8.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 -1 -1.0 -15.6 -15.6 -15.6 -15.6 -14.6 -15.0 -8.6 1.2 -6.2 -30.1 9.1 6.2 11.6 3 2.6 2.1 3.2 2.2 0.0 -49.6 -21.1
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	220 kV Export of I HVDC  Export of V HVDC  765 kV  400 kV  132kV  Export of V 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 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	D/C	3 0 0 240 0 0 0 0 251 328 0 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 0 0 0 0 0 WR-NR	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 97.1	0 -1 -11.0 -15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -0.0 -49.6 -21.1 -0.0
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	220 kV Export of I HVDC  Export of V HVDC  765 kV  400 kV  132kV  Export of V HVDC  LINK	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-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C	0 240 0 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 0 0 0 0 0 WR-NR  1002 0 1093	0.3 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 97.1	0 -1 -11.0 -15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0 -49.6 -21.1 -0.0 -2.3
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	220 kV Export of 1 HVDC  Approx of 1 HVDC  765 kV  220 kV  132kV  Export of 1 HVDC  LINK  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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C   S/C   S/C	3 0 0 240 0 0 0 0 251 328 0 489 418 109 123 168 125 0 0 0 1146 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR  1002 0 1093 2450	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0 -49.6 -21.1 -0.0 -2.3 -34.2
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 55 56	220 kV Export of I HVDC  Toport of V HVDC  765 kV  400 kV  220 kV  132kV  Export of V HVDC  LINK 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 ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-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   D/C   D/C   D/C   D/C   S/C   D/C   D/C   D/C   D/C   D/C   S/C   D/C   D/C   D/C   D/C   S/C   S/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR  1002 0 1093 2450 0 0 0 0 0	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -15.6 -15.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -13.2 -2.2 -0.0 -49.6 -2.1 -3.2 -2.2 -0.0 -49.6 -2.1 -3.2 -2.2 -0.0 -49.6 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1
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 55	220 kV Export of I HVDC  Toport of V HVDC  765 kV  400 kV  220 kV  132kV  Export of V HVDC  LINK 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUALPUR 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	D/C   D/C   D/C   D/C   D/C   D/C   D/C   D/C   D/C   S/C   S/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR  1002 0 1093 2450 0 0 0 64	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.6 15.0 14.6 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0 -49.6 -21.1 -0.0 -2.3 -34.2 -19.4 -0.0 -0.0 -1.3
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 55 56	220 kV Export of I HVDC  Toport of V HVDC  765 kV  400 kV  220 kV  132kV  Export of V HVDC  LINK 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 ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-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 XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C   D/C   D/C   D/C   D/C   D/C   D/C   S/C   S/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0 0 0 1146 0 1100 0 0 0 0 0 0 0 0 0 0 0 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR  1002 0 1093 22450 0 0 0 64 WR-SR	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 22.7 0.0 14.6 15.0 8.6 0.0 6.2 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -15.6 -15.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -13.2 -2.2 -0.0 -49.6 -2.1 -3.2 -2.2 -0.0 -49.6 -2.1 -3.2 -2.2 -0.0 -49.6 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1
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 55 56 57	220 kV Export of I HVDC  Toport of V HVDC  765 kV  400 kV  220 kV  132kV  Export of V HVDC  LINK 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 ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-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 XELDEM-AMBEWADI	D/C   D/C   D/C   D/C   D/C   D/C   D/C   S/C   S/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR  1002 0 1093 22450 0 0 0 64 WR-SR	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.6 15.0 14.6 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0 -49.6 -21.1 -21
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 55 56	220 kV Export of I HVDC  Toport of V HVDC  765 kV  400 kV  220 kV  132kV  Export of V HVDC  LINK 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 ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-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 XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C   D/C   D/C   D/C   D/C   D/C   D/C   S/C   S/C	0 240 0 0 0 0 251 328 0 455 330 489 418 109 123 168 125 0 0 0 1146 0 1100 0 0 0 0 0 0 0 0 0 0 0 0	180 111 ER-NER  703 NER-NR  953 0 594 491 633 115 0 1394 0 0 0 0 0 WR-NR  1002 0 1093 22450 0 0 0 64 WR-SR	0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.4 11.2 15.6 15.6 15.6 15.6 15.0 14.6 15.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -11.0 -15.6 -15.6 -15.6 -22.7 -6.0 -14.6 -15.0 -8.6 -1.2 -6.2 -30.1 -9.1 -6.2 -11.6 -3 -2.6 -2.1 -3.2 -2.2 -0.0 -49.6 -21.1 -0.0 -2.3 -34.2 -19.4 -0.0 -0.0 -1.3