

# 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: 10<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 09.10.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9<sup>th</sup> 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 10-Oct-18

#### A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	47069	53645	43165	22142	2602	168623
Peak Shortage (MW)	1612	253	0	861	105	2831
Energy Met (MU)	1074	1273	966	465	44	3823
Hydro Gen (MU)	199	71	114	90	18	493
Wind Gen (MU)	20	15	26			61
Solar Gen (MU)*	21.56	20.60	61.06	0.82	0.04	104
Energy Shortage (MU)	14.7	8.3	1.0	2.6	1.0	27.6
Maximum Demand Met during the day	49282	55523	43160	22112	2565	170054
(MW) & time (from NLDC SCADA)	19:30	11:26	18:54	19:00	18:20	18:56

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	0.040	0.00	0.08	9.32	9.40	83.88	6.72

C Power 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	7084	0	163.1	43.0	-0.8	120	0.0
	Haryana	7691	0	154.0	87.7	2.6	326	0.0
	Rajasthan	10059	0	213.8	37.3	1.5	498	0.0
	Delhi	4403	0	92.3	64.1	-0.9	71	0.0
NR	UP	15464	710	350.2	137.3	1.7	237	6.6
	Uttarakhand	1920	0	37.3	12.9	0.8	208	0.0
	HP	1395	0	27.1	8.5	1.0	135	0.0
	J&K	1767	442	32.5	28.9	-6.5	119	8.1
	Chandigarh	201	0	3.8	3.9	-0.1	30	0.0
	Chhattisgarh	4492	0	104.0	46.0	-4.1	108	0.0
	Gujarat	17645	0	392.7	131.6	10.7	815	0.0
1	MP	10275	0	228.3	110.8	0.1	808	0.0
	Maharashtra	23278	612	503.1	157.6	8.9	942	8.3
WK	Goa	540	0	14.1	10.0	0.1	62	0.0
	DD	313	0	7.0	5.8	1.2	84	0.0
	DNH	767	0	17.8	16.4	1.4	146	0.0
	Essar steel	338	0	6.0	5.6	0.4	279	0.0
	Andhra Pradesh	8622	0	195.8	63.1	4.4	834	0.0
	Telangana	10600	0	233.4	108.3	4.1	915	0.0
SR	Karnataka	9076	0	192.9	26.1	0.5	627	0.0
3N	Kerala	3289	300	66.7	35.6	1.1	233	1.0
	Tamil Nadu	13294	0	270.7	145.0	-1.1	457	0.0
	Pondy	337	0	6.9	7.1	-0.2	24	0.0
	Bihar	5063	0	94.0	92.2	-1.0	365	0.1
	DVC	2874	0	60.8	-18.7	2.7	452	1.1
ER	Jharkhand	1070	151	24.9	16.8	1.5	185	0.5
EN	Odisha	5170	300	113.8	42.5	2.2	398	0.9
	West Bengal	8462	0	170.7	45.6	-0.1	425	0.0
	Sikkim	96	0	1.2	1.3	0.0	20	0.0
	Arunachal Pradesh	114	2	2.1	2.1	0.0	-	0.0
	Assam	1623	77	26.4	20.6	0.9	129	1.0
	Manipur	173	1	2.2	2.3	-0.1	21	0.0
NER	Meghalaya	334	0	4.8	3.1	-0.2	68	0.0
	Mizoram	85	2	2.0	0.9	0.4	12	0.0
	Nagaland	106	2	2.4	1.3	0.7	29	0.0
	Tripura	268	1	4.3	3.9	-0.5	15	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	14.6	-2.7	-20.2
Day peak (MW)	764.1	-142.0	-875.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	109.0	-133.8	64.3	-36.5	-1.1	1.9
Actual(MU)	88.6	-128.8	69.6	-24.7	-2.3	2.5
O/D/U/D(MU)	-20.4	5.0	5.3	11.8	-1.2	0.6

#### F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3518	13492	6722	1760	271	25763
State Sector	7135	13374	7400	5195	50	33154
Total	10653	26866	14122	6955	321	58917

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	665	1189	597	402	5	2857
Hydro	199	71	114	90	18	493
Nuclear	18	12	34	0	0	64
Gas, Naptha & Diesel	64	99	24	0	28	216
RES (Wind, Solar, Biomass & Others)	61	37	131	1	0	229
Total	1007	1407	900	493	51	3859
Share of RES in total generation (%)	6.04	2.60	14.53	0.17	0.08	5.94
Share of Non-fossil fuel (Hydro, Nuclear and	27.64	8.49	30.98	18.49	35.45	20.37

H. Diversity Factor

RES) in total generation (%)

All I	ndia Der	nand I	Diver	sity	Fac	tor		1.015	]

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

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

		INTE	R-REGI	ONAL EX	<u>CHANGES</u>	Date of I	Reporting :	: 10-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)
	xport of l	ER (With NR)	1	1	T	1		
1	7651-37	GAYA-VARANASI	D/C	483	41	4.7	0.0	4.7
3	765kV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	521 19	0 181	8.9 0.0	0.0	8.9 -1.5
4		ALIPURDUAR-AGRA	-	0	1001	0.0	24.5	-24.5
5	HVDC	PUSAULI B/B	S/C	0	398	0.0	10.1	-10.1
6		PUSAULI-VARANASI	S/C	0	338	0.0	7.2	-7.2
7		PUSAULI -ALLAHABAD	S/C	0	136	0.0	2.4	-2.4
8		MUZAFFARPUR-GORAKHPUR	D/C	461	163	2.9	0.0	2.9
9	400 kV	PATNA-BALIA	Q/C	144	478	0.0	7.0	-7.0
10		BIHARSHARIFF-BALIA	D/C	176 0	35	1.0 0.0	0.0	1.0
12		MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	D/C D/C	434	262 0	5.5	4.0 0.0	-4.0 5.5
13	220 kV	PUSAULI-SAHUPURI	S/C	0	197	0.0	4.0	-4.0
14	220 K	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	400.00	GARWAH-RIHAND	S/C	0	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	<u> </u>	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
		CD (Wild WD)			ER-NR	23.6	60.6	-36.9
	xport of l	ER (With WR)	I		_			
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1232	0	25.2	0.0	25.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	598	14	8.7	0.0	8.7
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	727	0	14.3	0.0	14.3
21		RANCHI-SIPAT BUDHIPADAR-RAIGARH	D/C S/C	364 0	2	5.9 0.0	0.0	5.9 0.0
23	220 kV	BUDHIPADAR-KAIGAKH BUDHIPADAR-KORBA	D/C	253	0	4.6	0.0	4.6
23		BUDIIII ADAK-KUKBA	D/C	233	ER-WR	58.5	0.0	58.5
Import/E	xport of l	ER (With SR)						
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1484.0	0.0	22.4	-22.4
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	414.0	0.0	9.8	-9.8
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1886.0	0.0	40.0	-40.0
27	400 kV	TALCHER-I/C	D/C	0.0	949.0	0.0	10.9	-10.9
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
Import/F	vnort of	ER (With NER)			ER-SR	0.0	72.1	-72.1
mipor de	Aport or							
29	T .		D/C	0	642	0.0	11.1	-11
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	642 183	0.0	11.1 0.4	-11 0
29 30 31		BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C D/C	143	642 183 122	0.0	0.4	-11 0 -2
30	400 kV 220 kV	BINAGURI-BONGAIGAON	D/C		183			0
30 31 <b>Import/E</b>	220 kV export of I	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	143	183 122	0.0	0.4 1.8	0 -2
30 31 <b>Import/E</b>	220 kV export of I	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	143	183 122	0.0	0.4 1.8	0 -2
30 31 Import/E 32	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA	D/C	143	183 122 ER-NER	0.0 0.0 <b>0.0</b>	0.4 1.8 13.3	0 -2 -13.3
30 31 Import/E 32 Import/E	220 kV Export of I HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR)	D/C D/C	0	183 122 ER-NER 704 NER-NR	0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8	0 -2 -13.3 -16.8 -16.8
30 31 Import/E 32 Import/E 33	220 kV Export of 1 HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI  NER (With NR) BISWANATH CHARIALI-AGRA  WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C - D/C	0 0	183 122 ER-NER 704 NER-NR	0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8	0 -2 -13.3 -16.8 -16.8
30 31 Import/E 32 Import/E 33 34	220 kV Export of 1 HVDC	BINAGURI-BONGAIGAON 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 0 240	183 122 ER-NER 704 NER-NR 953	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0	-16.8 -16.8 -16.8 -22.1 -6.0
30 31 Import/E 32 Import/E 33 34 35	220 kV Export of 1 HVDC	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	0 0 0 240 0	183 122 ER-NER 704 NER-NR 953 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6	0 -2 -13.3 -16.8 -16.8 -22.1 -6.0 -14.6
30 31 Import/E 32 Import/E 33 34	220 kV Export of 1 HVDC	BINAGURI-BONGAIGAON 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 0 240	183 122 ER-NER 704 NER-NR 953	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0	-16.8 -16.8 -16.8 -22.1 -6.0
30 31 Import/E 32 Import/E 33 34 35 36	220 kV Export of 1 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 D/C	0 0 0 240 0	183 122 ER-NER 704 NER-NR 953 0 595 561	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4	0 -2 -13.3 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4
30 31 Import/E 32 Import/E 33 34 35 36 37	220 kV Export of Y Export of Y Export of Y Export of Y	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	0 0 240 0 0	183 122 ER-NER 704 NER-NR 953 0 595 561 657	0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3	0 -2 -13.3 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3
30 31 Import/E 32 Import/E 33 34 35 36 37 38	220 kV Export of Y Export of Y Export of Y Export of Y	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	0 0 0 240 0 0 0 193	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9	0 -2 -13.3 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9
30 31 Import/E 32 Import/E 33 34 35 36 37 38 39	220 kV Export of Y Export of Y Export of Y Export of Y	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	D/C D/C  D/C  D/C  D/C  D/C  D/C  D/C	0 0 0 240 0 0 0 193 315	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9	-16.8 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9 5.9
30 31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42	220 kV Export of 1 HVDC Export of V 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	D/C	0 0 240 0 0 0 0 193 315 0 475 373	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6
30 31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43	220 kV Export of Y Export of Y Export of Y Export of Y	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	0 0 240 0 0 0 0 0 193 315 0 475 373 495	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.6 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -13.3 -10.9 -13.17 -10.9 -10
30 31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of 1 HVDC Export of V 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 RAPP-SHUJALPUR	D/C	0 0 240 0 0 0 0 193 315 0 475 373 495 358	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3
30 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	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-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C	0 0 240 0 0 0 0 193 315 0 475 373 495 358 96	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 -2.3
30 31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of 1 HVDC Export of V 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-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	D/C	0 0 240 0 0 0 0 193 315 0 475 373 495 358 96	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -10
30 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	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 BIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C	0 0 240 0 0 0 0 193 315 0 475 373 495 358 96 107	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -10.3 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	220 kV Export of I HVDC Export of V 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 MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	0 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.9 -14.6 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -16.8 -10.3 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8 -1.8
30 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	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 BIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C	0 0 240 0 0 0 0 193 315 0 475 373 495 358 96 107	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 31.7 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -10.3 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	220 kV Export of I HVDC Export of V 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 MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	0 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.9 -14.6 -15.4 -10.3 -0.9 -5.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -10.3 -10.0 -
30 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	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	0 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.9 -14.6 -15.4 -10.3 -0.9 -5.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -10.3 -10.0 -
30 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	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 GWALIOR-SAWAI MADHOPUR  WR (With SR)	D/C	0 0 240 0 0 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -17.4 -10.3 -0.9 -17.5 -1
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	220 kV Export of I HVDC  Export of V HVDC  765 kV  400 kV  132kV  Export of V 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 ZERDA-KANKROLI 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	143 0 0 0 240 0 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -10.3 -0.9 -10.3 -10.3 -10.9 -10.3 -10.3 -10.9 -10.3 -10.3 -10.9 -10.3 -10.9 -10.3 -10.9 -10.3 -10.9 -10
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	220 kV Export of I HVDC Export of V HVDC  765 kV  400 kV  220 kV  Export of V	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	D/C	143 0 0 0 240 0 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -44.1 -22.3 -0.0 -44.1 -22.3 -0.0 -44.1 -42.3 -2.3 -1.8 -2.2 -2.3 -0.0 -44.1 -22.3 -0.0 -44.1 -42.3 -2.3 -0.0 -44.1 -42.3 -2.3 -0.0 -44.1 -22.3 -0.0 -44.1 -42.3 -2.3 -0.0 -44.1 -42.3 -2.3 -0.0 -44.1 -42.3 -2.2 -0.0 -44.1 -42.3 -2.2 -0.0 -44.1 -42.3 -2.2 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -44.1 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.3 -0.0 -42.3 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -
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	220 kV Export of I HVDC  Export of V HVDC  765 kV  400 kV  132kV  Export of V 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 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	D/C	0 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 1201 0 983	183 122  ER-NER  704  NER-NR  953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR  1002 0 818 2067 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 122.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -16.8 -19.4 -10.3 -0.9 -1
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	220 kV  Export of I  HVDC  Approx of I  HVDC  765 kV  400 kV  132kV  Export of I  400 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 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 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 1201 0 983 0	183 122  ER-NER  704  NER-NR  953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR  1002 0 818 2067 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -44.1 -22.3 -0.0 -43 -27.7 -18.1 -0.0
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 55 56	220 kV Export of 1 HVDC Export of 1 HVDC  765 kV  400 kV  220 kV  Export of 1 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C	143 0 0 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 0 100 100 100 100 100	183 122  ER-NER  704  NER-NR  953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR  1002 0 818 2067 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -
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 55	220 kV  Export of I  HVDC  Approx of I  HVDC  765 kV  400 kV  132kV  Export of I  400 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 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 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 1201 0 983 0	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR 1002 0 818 2067 0 0 0 80	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9 -5.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -44.1 -22.3 -0.0 -43 -27.7 -18.1 -0.0 -0.0 -1.2
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 55 56	220 kV  Export of I  HVDC  Approx of I  HVDC  765 kV  400 kV  132kV  Export of I  400 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-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 WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI	D/C	0 0 240 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 1201 0 983 0 1	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR 1002 0 0 818	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -
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 55 56	220 kV  Export of I  HVDC  Approx of I  HVDC  765 kV  400 kV  132kV  Export of I  400 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-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 WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AM	D/C	143 0 0 0 240 0 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 0 100 100 100 100 100	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR 1002 0 0 818	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -44.1 -22.3 -0.0 -44.1 -22.3 -27.7 -18.1 -0.0 -0.0 -1.2 -26.3
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 55 56 57	220 kV  Export of I  HVDC  Approx of I  HVDC  765 kV  400 kV  132kV  Export of I  400 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-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  TRA	D/C	0 0 240 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 1201 0 983 0 1	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR 1002 0 0 818	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -2.0 -0.0 -44.1 -22.3 -2.0 -0.0 -44.1 -22.3 -27.7 -18.1 -0.0 -0.0 -1.2 -26.3
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 55 56 57	220 kV  Export of I  HVDC  Approx of I  HVDC  765 kV  400 kV  132kV  Export of I  400 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-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 WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AM	D/C	0 0 240 0 0 193 315 0 475 373 495 358 96 107 158 120 0 0 1201 0 983 0 1	183 122 ER-NER 704 NER-NR 953 0 595 561 657 99 0 1419 0 0 0 0 0 WR-NR 1002 0 0 818	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.4 1.8 13.3 16.8 16.8 16.8 16.8 22.1 0.0 14.6 15.4 10.3 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -2 -13.3 -16.8 -16.8 -16.8 -22.1 -6.0 -14.6 -15.4 -10.3 -0.9 -31.7 -9.0 -6.6 -11.2 -3 -2.3 -1.8 -3.0 -2.2 -0.0 -44.1 -22.3 -0.0 -44.1 -22.3 -27.7 -18.1 -0.0 -0.0 -1.2 -26.3