

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: 20th June 2019

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. मुख्य महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Chief General Manager, 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 19.06.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जून-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 19th June 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-Jun-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	54553	47894	43838	19983	2836	169104
Peak Shortage (MW)	1033	0	0	0	134	1167
Energy Met (MU)	1253	1114	1033	486	54	3940
Hydro Gen (MU)	321	19	39	87	20	485
Wind Gen (MU)	13	107	204			325
Solar Gen (MU)*	27.30	19.2	86.96	2.08	0.03	136
Energy Shortage (MU)	10.9	0.0	0.0	0.0	2.6	13.5
Maximum Demand Met during the day	58235	50044	44882	22101	2905	175401
(MW) & time (from NLDC SCADA)	22:45	15:21	15:27	00:01	20:09	22:52

B. Frequency Profile (%) Region All India FVI <49.7 49.7-49.8 49.8-49.9 49.9-50.05 > 50.05 0.034 10.90

ower supply re	osition in States	Max. Demand	Shortage during		1			1
Region	States	Met during the	maximum Demand	Energy Met (MU)	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	day (MW)	(MW)	Energy Met (MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU
	Punjab	11281	· · · · · · · · · · · · · · · · · · ·	246.5	129.7	-1.7	107	0.0
NR		8296	0	172.2	127.2	1.1	259	0.0
	Haryana							
	Rajasthan Delhi	9872 5172	0	208.5	52.3	-1.7	770 266	0.0
ND				106.4	86.7	1.0		0.0
NK	UP	19031	170	394.1	179.6	0.4	754	0.0
	Uttarakhand	2006	0	44.2	18.5	1.0	183	0.0
	HP	1452	0	29.6	5.0	1.8	174	0.0
	J&K	2155	539	45.9	20.7	0.7	350	10.9
	Chandigarh	303	0	5.7	6.3	-0.6	31	0.0
	Chhattisgarh	3804	0	89.6	30.7	-1.9	286	0.0
	Gujarat	14894	0	319.2	79.1	8.1	647	0.0
	MP	8399	0	187.8	98.6	0.0	449	0.0
WR	Maharashtra	20898	0	473.8	117.6	3.9	1316	0.0
WIN	Goa	541	0	11.5	12.8	-1.9	140	0.0
	DD	340	0	7.6	7.2	0.4	38	0.0
	DNH	767	0	17.9	18.1	-0.2	51	0.0
	Essar steel	316	0	6.4	6.2	0.1	290	0.0
	Andhra Pradesh	10170	0	204.0	31.0	-0.1	498	0.0
	Telangana	7989	0	172.7	51.2	0.3	354	0.0
SR	Karnataka	11129	0	218.4	60.5	0.7	496	0.0
JN.	Kerala	3767	0	73.3	59.1	1.8	441	0.0
	Tamil Nadu	15848	0	355.5	141.8	-2.2	493	0.0
	Pondy	439	0	9.0	9.2	-0.2	54	0.0
	Bihar	5396	0	106.7	104.8	-2.1	500	0.0
	DVC	3034	0	66.8	-42.8	-1.4	150	0.0
ER	Jharkhand	1117	0	26.6	21.1	0.1	150	0.0
EN	Odisha	4301	0	92.9	26.3	5.5	800	0.0
	West Bengal	9146	0	192.0	70.6	1.0	350	0.0
	Sikkim	95	0	1.3	1.3	-0.1	10	0.0
	Arunachal Pradesh	126	3	2.3	2.3	0.0	23	0.0
	Assam	1819	55	33.9	28.4	1.7	226	2.5
	Manipur	146	2	2.5	2.3	0.2	30	0.0
NER	Meghalaya	348	4	6.0	2.3	0.0	123	0.0
	Mizoram	91	3	1.7	1.6	-0.1	13	0.0
	Nagaland	113	1	2.2	2.3	-0.1	15	0.0
	Tripura	311	9	5.8	4.4	0.7	119	0.1

 $\textbf{D. Transnational Exchanges} \ \ (\textbf{MU}) \ \textbf{- Import} (+\textbf{ve}) / \textbf{Export} (-\textbf{ve})$

	Bhutan	Nepal	Bangladesh
Actual(MU)	12.4	-10.5	-26.4
Day peak (MW)	820.5	-580.9	-1109.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	240.6	-257.0	61.1	-40.2	-4.0	0.6
Actual(MU)	242.9	-257.4	56.7	-36.4	-0.2	5.8
O/D/U/D(MU)	2.4	-0.4	-4.4	3.8	3.8	5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5738	16280	8352	1250	90	31710
State Sector	6010	16122	6010	3100	50	31292
Total	11748	32402	14362	4350	139	63001

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	575	1146	507	458	13	2698
Lignite	16	15	37	0	0	68
Hydro	321	19	39	87	20	485
Nuclear	28	29	54	0	0	111
Gas, Naptha & Diesel	40	43	16	0	28	127
RES (Wind, Solar, Biomass & Others)	54	133	331	2	0	519
Total	1033	1384	984	547	61	4009

Share of RES in total generation (%)	5.19	9.59	33.62	0.39	0.05	12.95
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	38.92	13.04	43.08	16.31	33.44	27.83

H. Diversity Factor
All India Demand Diversity Factor
1.016
Diversity factor = Sum of regional maximum demands / All India maximum demand

^{*}Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

		INT	ER-REGI	ONAL EXCHA	NGES		n	±4 =
						Date of 1	Reporting :	20-Jun-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		ER (With NR)						
2	765kV	GAYA-VARANASI	D/C	0	492	0.0	6.2 0.0	-6.2
3	703K V	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	269	0 473	4.0 0.0	9.1	4.0 -9.1
4	HVDC	ALIPURDUAR-AGRA	-	0	602	0.0	13.6	-13.6
5	nvbc	PUSAULI B/B	S/C	0	399	0.0	9.7	-9.7
7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	304 157	0.0	6.7 2.8	-6.7 -2.8
8	1	MUZAFFARPUR-GORAKHPUR	D/C	0	792	0.0	10.8	-10.8
9	400 kV	PATNA-BALIA	Q/C	0	1055	0.0	18.1	-18.1
10		BIHARSHARIFF-BALIA	D/C	0	281	0.0	4.8	-4.8
11		MOTIHARI-GORAKHPUR	D/C	172	0	6.0	0.0	6.0
12	220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	D/C S/C	175 0	66 179	1.8 0.0	0.0 3.5	1.8 -3.5
14	220 KV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	422.171	GARWAH-RIHAND	S/C	30	0	0.5	0.0	0.5
16	132 kV	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	vnort of	ER (With WR)			ER-NR	12.3	85.1	-72.8
18 18	Aport OI	JHARSUGUDA-DHARAMJAIGARH	Q/C	1570	0	31.7	0.0	31.7
	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C					
19		NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	D/C D/C	1104 449	0	19.2 5.6	0.0	19.2 5.6
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	480	0	9.1	0.0	9.1
22	-30 A V	RANCHI-SIPAT	D/C	407	0	7.9	0.0	7.9
23	220 kV	BUDHIPADAR-RAIGARH	S/C	35	60	0.0	0.5	-0.5
24		BUDHIPADAR-KORBA	D/C	220	0 ER-WR	3.9 77.4	0.0	3.9 76.9
Import/E	Export of	ER (With SR)			DAT THE	77.4	0.0	76.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1508.0	0.0	23.1	-23.1
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	501.0	0.0	11.0	-11.0
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1970.0	0.0	39.0	-39.0
28	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	D/C S/C	201.0	650.0 0.0	0.0	6.5 0.0	-6.5 0.0
- 27	220 K 1	BALINELY OF EK SILLKIC	5/6	1.0	ER-SR	0.0	73.1	-73.1
Import/E	Export of	ER (With NER)			•			
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	586	0.0	7.7	-8
31		ALIPURDUAR-BONGAIGAON	D/C	185	154	0.0	0.1	0
	400 kV 220 kV		_		154 65	0.0	0.1	0 -1
31 32	220 kV	ALIPURDUAR-BONGAIGAON	D/C	185	154	0.0	0.1	0
31 32	220 kV Export of	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	185	154 65	0.0	0.1	0 -1
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C	185 13	154 65 ER-NER	0.0 0.0 0.0	0.1 0.6 8.4	0 -1 -8.4
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	185 13	154 65 ER-NER 402 NER-NR	0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7	0 -1 -8.4 -9.7 -9.7
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	185 13 0	154 65 ER-NER 402 NER-NR	0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 41.1	0 -1 -8.4 -9.7 -9.7 -41.1
31 32 Import/E 33	220 kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B	D/C D/C	185 13	154 65 ER-NER 402 NER-NR 2006	0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 41.1 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3
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	D/C D/C - D/C D/C	185 13 0 0 452	154 65 ER-NER 402 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0 11.3	0.1 0.6 8.4 9.7 9.7 41.1	0 -1 -8.4 -9.7 -9.7 -41.1
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 V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C	185 13 0 0 452 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8
31 32 Import/E 33 Import/E 34 35 36 37 38 39	220 kV Export of HVDC Export of	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	185 13 0 0 452 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0	9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40	220 kV Export of HVDC Export of 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	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C	185 13 0 0 452 0 0 0 0 434	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 0.0 7.2	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40	220 kV Export of HVDC Export of 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	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	185 13 0 0 452 0 0 0 0 0 434 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498	0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 0.0 7.2 0.0	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40	220 kV Export of HVDC Export of 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	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C	185 13 0 0 452 0 0 0 0 434	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 0.0 7.2	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2
31 32 Import/E 33 Import/E 34 35 36 37 38 39 40 41 42	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	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C D/C	185 13 0 0 452 0 0 0 0 434 0 289	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351	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 1.4 1.2	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6
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 V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108	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 1.1 1.2 22.7	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6 1.4 0.7 22.7
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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C D/C	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0	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 1.4 1.2 22.7 0	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6 1.4 0.7 22.7 -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 SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-SHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	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	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0	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 1.4 1.2 22.7 0 0.4	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6 1.4 0.7 22.7 -2 0.2
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 V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	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	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0	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 1.4 1.2 22.7 0	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6 1.4 0.7 22.7 -2
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 - 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-SHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	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	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 0.0 0.0 1.4 1.2 22.7 0 0.4 0.0	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6 1.4 0.7 22.7 -2 0.2
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 - 400 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	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	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975 0 0 34	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 0.0 0.0 1.2 1.2 22.7 0 0.4 0.0 0.2	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	0 -1 -8.4 -9.7 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 0.6 1.4 0.7 -2.2 -2.2 0.2 -1.1 0.0
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	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 V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28	0.0 0.0 0.0 0.0 0.0 0.0 11.3 0.0 0.0 0.0 0.0 0.0 1.4 1.2 22.7 0 0.4 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2.5 0.0 0.1 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -7.2 -32.1 0.6 1.4 0.7 -22.7 -2 0.2 -1.1 0.0 -0.5
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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV 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 JABAL-PUR-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)	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	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR	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 1.4 1.2 22.7 0 0.4 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 -0.6 1.4 0.7 22.7 -2 0.2 -1.1 0.0 -0.5 0.0
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	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 V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	185 13 0 0 452 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0	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 1.4 1.2 22.7 0 0.4 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 1.1 0.5 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 -11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 -1.4 -0.7 -2.7 -2 -0.2 -1.1 -0.0 -0.5 -0.0
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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of 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 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	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	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR	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 1.4 1.2 22.7 0 0.4 0.0 0.2 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2 0.2 1.1 0.1 0.5 0.0 212.1	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 0.6 1.4 0.7 22.7 -2 0.2 -1.1 0.0 -0.5 0.0 -167.2
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	220 kV Export of HVDC Export of HVDC 765 kV 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-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	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	0 -1 -8.4 -9.7 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 7.2 -32.1 -0.6 1.4 -0.7 -22.7 -2 -0.2 -1.1 -0.0 -0.5 -0.0 -167.2
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	220 kV Export of HVDC Export of HVDC - 765 kV - 400 kV - 132kV Export of 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 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 KOLHAPUR-KUDGI	D/C	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 111	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 2 1.1 0.1 0.5 0.0 0.0 2 1.1 0.1 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -8.4 -9.7 -9.7 -9.7 -41.1 -11.3 -32.5 -49.0 -28.0 -7.2 -32.1 -0.6 -1.4 -0.7 -22.7 -2 -0.2 -1.1 -0.0 -0.5 -0.0 -167.2 -10.4 -0.0 -0.0 -15.5 -9.5
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	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI	D/C	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0 0 0 0 38 861 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 111	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 32.1 0.0 0.1 0.5 0.0 2 1.1 0.5 0.0 2 1.1 0.5 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.1 0.5 0.0 0.0 0.1 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 -1 -8.4 -9.7 -9.7 -9.7 -41.1 -11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 -1.4 -0.7 -2.7 -2 -0.2 -1.1 -0.0 -0.5 -0.0 -167.2 -10.4 -0.0 -0.0 -15.5 -9.5 -0.0
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 58	220 kV Export of HVDC Export of HVDC 765 kV 220 kV 132kV Export of 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 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-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0 0 0 0 34 34 7 0 0 0 0 0 0 0 0 0 0 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 111 0 99	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 0.2 1.1 0.5 0.0 212.1 10.4 0.0 0.0 15.5 0.0 0.0 1.8	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 1.4 -0.7 -22.7 -2 -0.2 -1.1 -0.0 -0.5 -0.0 -167.2 -10.4 -10.4 -15.5 -9.5 -9.5 -1.8
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	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI	D/C	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0 0 0 0 38 861 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 1111 0 99 555	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 0.2 1.1 0.5 0.0 212.1 10.4 0.0 0.0 15.5 0.0 0.0 1.8 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 1.4 -0.7 -2.7 -2 -1.1 -0.0 -0.5 -0.0 -167.2 -10.4 -0.0 -15.5 -9.5 -0.0 -1.8 -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 58	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIAMA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0 0 0 0 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 1111 0 99 55 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 0.2 1.1 0.5 0.0 212.1 10.4 0.0 0.0 15.5 0.0 0.0 1.8	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 1.4 -0.7 -22.7 -2 -0.2 -1.1 -0.0 -0.5 -0.0 -167.2 -10.4 -10.4 -15.5 -9.5 -9.5 -1.8
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 58	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARIAMA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0 0 0 0 34 34 7 0 0 0 0 0 0 0 0 0 0 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 1111 0 99 55 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 0.2 1.1 0.5 0.0 212.1 10.4 0.0 0.0 15.5 0.0 0.0 1.8 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 1.4 -0.7 -2.7 -2 -1.1 -0.0 -0.5 -0.0 -167.2 -10.4 -0.0 -15.5 -9.5 -0.0 -1.8 -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 58 59	220 kV Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of 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 CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WARAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	185 13 0 0 452 0 0 0 0 0 434 0 289 158 276 975 0 58 0 34 7 0 0 0 0 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0	154 65 ER-NER 402 NER-NR 2006 0 1451 2415 1327 836 0 1498 351 35 108 0 300 44 93 28 40 0 WR-NR 502 0 900 1448 1111 0 99 55 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.6 8.4 9.7 9.7 9.7 41.1 0.0 32.5 49.0 24.8 28.0 0.0 0.1 0.5 0.0 2 0.2 1.1 0.5 0.0 212.1 10.4 0.0 0.0 15.5 0.0 0.0 1.8 0.0	0 -1 -8.4 -9.7 -9.7 -41.1 11.3 -32.5 -49.0 -24.8 -28.0 -7.2 -32.1 -0.6 1.4 -0.7 -22.7 -2 -0.2 -1.1 -10.0 -0.5 -0.0 -167.2 -10.4 -10.4 -10.5 -15.5 -9.5 -1.8 -1.0 -17.2