

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, क़त्ब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 19th Jan 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. महाप्रबंधक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 General Manager, 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. महाप्रबंधक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009 General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 18.01.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-जनवरी - 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 18th January 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 19-Jan-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44402	46102	39620	18350	2347	150821
Peak Shortage (MW)	551	34	0	0	29	614
Energy Met (MU)	931	1079	910	353	42	3315
Hydro Gen(MU)	102	24	72	28	8	234
Wind Gen(MU)	14	12	42			68
Solar Gen (MU)*	2.75	17.78	46.12	0.66	0.02	67
Energy Shortage (MU)	14.9	0.0	0.3	0.0	0.3	15.4
Maximum Demand Met during the day (MW) (from NLDC SCADA)	46728	50888	41664	18376	2371	153480

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	0.034	0.00	0.76	3.17	3.94	82.85	13.22

C. Power Supply Position in States

***	tion in States	Max. Demand Met	Shortage during					_
RegionRegion	States	during the day	maximum Demand	Energy Met (MU)	Drawal	OD(+)/UD(-)	Max OD	Energy
		(MW)	(MW)		Schedule (MU)	(MU)	(MW)	Shortage (MU
	Punjab	5427	0	107.2	19.9	0.1	191	0.0
	Haryana	6422	0	123.4	67.9	1.7	221	1.2
	Rajasthan	11123	0	213.9	65.4	3.5	456	1.9
	Delhi	3929	0	67.3	49.7	-0.8	240	0.0
NR	UP	14022	40	299.4	100.0	0.6	937	0.7
	Uttarakhand	2260	0	41.5	28.2	4.1	337	0.0
	HP	1537	0	28.1	22.4	1.6	226	0.0
	J&K	2202	551	46.6	43.9	-1.5	34	11.0
	Chandigarh	216	0	3.5	3.5	0.0	21	0.0
	Chhattisgarh	3264	0	73.5	5.5	-0.8	394	0.0
	Gujarat	14066	0	309.5	108.3	3.2	409	0.0
WR	MP	11908	0	222.4	142.6	0.0	470	0.0
	Maharashtra	21189	0	430.8	142.7	0.1	786	0.0
	Goa	482	0	9.9	9.1	0.4	72	0.0
	DD	333	0	7.5	6.8	0.7	92	0.0
	DNH	769	0	17.8	16.6	1.2	86	0.0
	Essar steel	438	0	7.7	7.8	-0.1	172	0.0
	Andhra Pradesh	8147	0	166.2	47.2	4.0	712	0.1
	Telangana	9106	0	178.5	75.2	-1.7	418	0.1
SR	Karnataka	10125	0	210.4	91.4	2.2	605	0.1
JI.	Kerala	3513	0	66.9	53.2	0.3	264	0.0
	Tamil Nadu	13417	0	282.0	142.9	2.9	514	0.1
	Pondy	317	0	6.2	6.8	-0.6	18	0.0
	Bihar	4422	0	73.8	66.3	1.2	385	0.0
	DVC	2974	0	69.5	-42.5	-0.9	302	0.0
ER	Jharkhand	1108	0	24.9	14.5	0.8	165	0.0
LIN	Odisha	4019	0	74.4	19.1	3.4	435	0.0
	West Bengal	6314	0	109.1	15.7	2.2	445	0.0
	Sikkim	112	0	1.8	1.5	0.3	20	0.0
	Arunachal Pradesh	97	4	2.1	1.8	0.3	39	0.0
	Assam	1416	5	23.8	19.0	2.3	135	0.1
	Manipur	187	5	2.7	2.8	-0.2	25	0.0
NER	Meghalaya	303	1	6.2	3.4	-0.2	45	0.0
NER	Mizoram	91	4	1.8	1.1	0.0	22	0.0
	Nagaland	110	11	1.9	1.8	0.0	38	0.1
	Tripura	220	1	3.3	2.7	0.0	55	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.0	-9.5	-11.9
Day peak (MW)	148.7	-380.0	-628.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	184.2	-207.6	109.8	-91.6	4.3	-0.8
Actual(MU)	182.5	-215.5	106.5	-79.6	5.1	-1.1
O/D/U/D(MU)	-1.7	-7.9	-3.4	12.0	0.8	-0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4721	11206	6652	1720	216	24515
State Sector	8890	15460	7768	3405	50	35573
Total	13611	26666	14420	5125	265	60088

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	574	1188	526	429	9	2727
Hydro	102	22	72	28	8	231
Nuclear	29	25	60	0	0	114
Gas, Naptha & Diesel	28	49	19	0	24	119
RES (Wind, Solar, Biomass & Others)	41	29	130	2	0	203
Total	774	1314	807	459	40	3394

			K KLGI	ONAL EX	<u>CHANGES</u>	Date of I	Reporting :	19-Jan
								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)
nport/E	xport of	ER (With NR)						
1	765kV	GAYA-VARANASI	D/C	0	351	0.0	10.6	-10.6
3	/05KV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	0	263 366	0.0	1.5 6.5	-1.5 -6.5
4		ALIPURDUAR-AGRA	- S/C	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	247	0.0	5.1	-5.1
6		PUSAULI-VARANASI	S/C	0	185	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	127	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	390	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	Q/C	0	986	0.0	18.3	-18.3
10		BIHARSHARIFF-BALIA	D/C	0	344	0.0	5.4	-5.4
11		MOTIHARI-GORAKHPUR	D/C	0	0	0.0	6.7	-6.7
12		BIHARSHARIFF-VARANASI	D/C	0	199	0.0	2.8	-2.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	0	0.0	0.0	0.0
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	0	0	0.5	0.0	0.5
16	1	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	l	KARMANASA-CHANDAULI	S/C	0	0 ED ND	0.0	0.0	0.0
nport/F	xport of	ER (With WR)			ER-NR	0.5	64.7	-64.2
18		JHARSUGUDA-DHARAMJAIGARH S/C	D/C	0	0	11.2	0.0	11.2
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	0	446	0.2	0.0	0.2
20	45.5	JHARSUGUDA-RAIGARH	Q/C	0	104	2.3	0.0	2.3
21	400 kV	RANCHI-SIPAT	D/C	0	80	2.0	0.0	2.0
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	182	0.0	1.7	-1.7
23	220 KV	BUDHIPADAR-KORBA	D/C	0	0	1.6	0.0	1.6
					ER-WR	17.4	1.7	15.7
_		ER (With SR)	T	T		1		T
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	19.6	-19.6
25	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	366.2	0.0	14.4	-14.4
26		TALCHER-KOLAR BIPOLE	D/C	0.0	2253.1	0.0	47.5	-47.5
	400 kV	TALCHER-I/C	D/C	0.0	187.4	5.9	1.2	4.8
27		DALIMELA LIDDED CILEDDII	8/0	0.0	0.0		0.0	0.0
27	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
28	220 kV		S/C	0.0	0.0 ER-SR		0.0 81.5	0.0 -81.5
28 mport/E	220 kV	ER (With NER)			ER-SR	0.0	81.5	-81.5
28 mport/E 29	220 kV	ER (With NER) BINAGURI-BONGAIGAON	D/C	0	ER-SR 259	0.0 0.0		-81.5
28 mport/E 29 30	220 kV export of	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	0 0	ER-SR	0.0 0.0 2.0 3.9	0.0	-81.5 2 4
28 nport/E 29	220 kV export of 400 kV	ER (With NER) BINAGURI-BONGAIGAON	D/C	0	259 242	0.0 0.0	81.5	-81.5
28 mport/E 29 30 31	220 kV Export of 400 kV 220 kV	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	0 0	259 242 0	0.0 0.0 2.0 3.9 0.0	0.0	-81.5 2 4 -1
28 mport/E 29 30 31	220 kV Export of 400 kV 220 kV	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	0 0	259 242 0	0.0 0.0 2.0 3.9 0.0	0.0	-81.5 2 4 -1
28 mport/E 29 30 31 mport/E	220 kV Export of 400 kV 220 kV Export of 1	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C D/C	0 0 0	259 242 0 ER-NER	2.0 3.9 0.0 5.9	0.0 0.9 0.9	-81.5 2 4 -1 5.0
28 mport/E 29 30 31 mport/E 32	220 kV Export of 400 kV 220 kV Export of 1 HVDC	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C D/C	0 0 0	259 242 0 ER-NER	0.0 0.0 2.0 3.9 0.0 5.9 10.5	0.0 0.9 0.9	-81.5 2 4 -1 5.0
28 mport/E 29 30 31 mport/E 32	220 kV Export of 400 kV 220 kV Export of 1 HVDC	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C	0 0 0	259 242 0 ER-NER	2.0 3.9 0.0 5.9	0.0 0.9 0.9	-81.5 2 4 -1 5.0
28 mport/E 29 30 31 mport/E 32 mport/E 33 34	220 kV Export of 400 kV 220 kV Export of 1 HVDC	ER (With NER) 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 D/C D/C	0 0 0 442 0 250	259 242 0 ER-NER 0 NER-NER 1636 250	0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7	0.0 0.9 0.9 0.0 0.0 46.6 2.8	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1
28 mport/E 29 30 31 mport/E 32 mport/E 33	220 kV Export of 400 kV 220 kV Export of 1 HVDC	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG	D/C	0 0 0 442 0 250	259 242 0 ER-NER 0 NER-NR 1636 250 1814	0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0	0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1 -30.5
28 mport/E 29 30 31 mport/E 32 mport/E 33 34 35 36	220 kV Export of 400 kV 220 kV Export of 1 HVDC	ER (With NER) 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	0 0 0 442 0 250 0	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666	0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0	0.0 0.9 0.9 0.0 0.0 46.6 2.8	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1 -30.5 -52.0
28 mport/E 29 30 31 mport/E 32 mport/E 33 34 35 36 37	220 kV Export of 400 kV 220 kV Export of HVDC Export of HVDC	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C	0 0 0 442 0 250 0 0 476	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0	0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0 0.0	0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3
28 mport/E 29 30 31 mport/E 32 mport/E 33 34 35 36 37 38	220 kV Export of 400 kV 220 kV Export of HVDC Export of HVDC	ER (With NER) BINAGURI-BONGAIGAON 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 ZERDA-KANKROLI	D/C	0 0 0 442 0 250 0 0 476 348	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0	0.0 0.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4	0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4
28 mport/E 29 30 31 mport/E 32 mport/E 33 34 35 36 37 38 39	220 kV Export of 400 kV 220 kV Export of HVDC Export of HVDC	ER (With NER) BINAGURI-BONGAIGAON 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 ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 0 442 0 250 0 0 476 348 321	259 242 0 ER-NER 0 NER-NE 1636 250 1814 2666 0 0 97	0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 0.0 3.4 1.7	0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7
28 mport/E 29 30 31 mport/E 32 mport/E 33 34 35 36 37 38 39 40	220 kV Export of 400 kV 220 kV Export of 1 HVDC Export of 1 HVDC	ER (With NER) 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 ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -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	0 0 0 442 0 250 0 476 348 321 954	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 97	0.0 0.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1
28 29 30 31 31 32 32 33 34 35 36 37 38 39 40 41	220 kV Export of 400 kV 220 kV Export of 1 HVDC Export of 1 HVDC	ER (With NER) BINAGURI-BONGAIGAON 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 ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	D/C S/C S/C S/C D/C D/C	0 0 0 442 0 250 0 476 348 321 954	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 97 0	0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 0.0 1.7 2.1 0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 29.3	-81.5 2 4 -1 5.0 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 -3.4 1.7 -22.1
28 29 30 31 31 32 33 34 35 36 37 38 39 40 41 42	220 kV Export of 400 kV 220 kV Export of 1 HVDC Export of 1 HVDC	ER (With NER) 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 ZERDA-KANKNOLI ZERDA-BHINNAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C S/C S/C	0 0 0 442 0 250 0 476 348 321 954 0 83	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 97 0 1582 0	0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 0.0 1.7 2.1 0 1.4	0.0 0.9 0.9 0.0 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4
28 port/E 29 30 31 port/E 32 port/E 33 34 35 36 37 38 39 40 41 42 43	220 kV Export of 400 kV 220 kV Export of 1 HVDC Export of 1 HVDC	ER (With NER) BINAGURI-BONGAIGAON 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 ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK	D/C S/C S/C	0 0 0 442 0 250 0 476 348 321 954 0 83 35	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 97 0 1582 0 52	0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 0.0 1.7 22.1 0 1.4 0.3	0.0 0.9 0.9 0.0 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1
28 29 30 31 31 pport/E 32 33 34 35 36 37 38 39 40 40 41 42 43 44	220 kV Export of 400 kV 220 kV Export of 1 HVDC AVOID HVDC 765 kV	ER (With NER) 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C S/C S/C	0 0 0 0 250 0 0 476 348 321 954 0 83 35	ER-SR 259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 0 97 0 1582 0 52	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0	81.5 0.0 0.9 0.9 0.0 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -4.4 0.1 2.0
28 29 30 31 31 **port/E 32 **poport/E 33 34 35 36 37 38 39 40 41 41 42 43 44 45	220 kV Export of 400 kV 220 kV Export of 1 HVDC 765 kV 400 kV	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C	0 0 0 250 0 476 348 321 954 0 83 35 104	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 0 97 0 1582 0 52 0 0	0.0 0.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.0
28 port/E 29 30 31 port/E 32 port/E 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of 400 kV 220 kV Export of 1 HVDC AVOID HVDC 765 kV	ER (With NER) 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA	D/C S/C S/C	0 0 0 0 250 0 0 476 348 321 954 0 83 35	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 0 97 0 1582 0 0 0 0 0 0	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -1.4 0.1 2.0 1.0 0.0
28 nport/E 29 30 31 nport/E 32 nport/E 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 400 kV 220 kV	ER (With NER) 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SDUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	0 0 0 250 0 476 348 321 954 0 83 35 104	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 0 97 0 1582 0 52 0 0	0.0 0.0 3.9 0.0 5.9 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.0
28 nport/E 29 30 31 nport/E 32 nport/E 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46	220 kV xport of 400 kV 220 kV xport of 1 HVDC 765 kV 400 kV 220 kV xport of 1 xport of 1 xport of 1	ER (With NER) 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 ZERDA-KANKOLI ZERDA-BHINNAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C	0 0 0 250 0 476 348 321 954 0 83 35 104	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 0 97 0 1582 0 0 0 0 0 0	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -1.4 0.1 2.0 1.0 0.0
28 nport/E 29 30 31 nport/E 32 nport/E 33 34 35 36 37 38 38 39 40 41 42 43 44 45 46 nport/E	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 400 kV 220 kV	ER (With NER) 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SDUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	0 0 0 250 0 476 348 321 954 0 83 35 104 48	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 97 0 1582 0 0 0 WR-NR	0.0 0.0 0.0 2.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 0.0 0.0 0.0 32.7	81.5 0.0 0.9 0.9 0.0 0.0 0.0 46.6 2.8 30.5 52.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.00 -130.8
28 port/E 32 port/E 32 port/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 220 kV 400 kV 220 kV 132kV Export of 1 HVDC LINK	ER (With NER) 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 ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SWAI MADHOPUR WR (With SR) BHADRAWATI B/B	D/C S/C S/C	0 0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	ER-SR 259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 97 0 1582 0 0 WR-NR	0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0 32.7	81.5 0.0 0.9 0.9 0.0 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 0.0 10 10 10 10 10 10 10 10 10 1	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 0.0 -130.8
28 pport/E 32 pport/E 32 pport/E 33 34 35 36 37 38 39 40 40 41 42 43 44 45 46	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approx of 1 HVDC 765 kV 400 kV 220 kV 132kV Export of 1 HVDC	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	D/C	0 0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 0 97 0 1582 0 0 WR-NR	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0 32.7	81.5 0.0 0.9 0.9 0.0 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 0.0 10.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.0 0.0 -130.8
28 29 30 31 pport/E 32 pport/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 220 kV 400 kV 220 kV 132kV Export of 1 HVDC LINK	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJAHUR 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	0 0 0 250 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 0 97 0 1582 0 0 0 WR-NR	0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0 32.7	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 0.0 0.0 0.0 0.0 163.5	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.00 -130.8
28 29 30 31 31 port/E 32 port/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 port/E 47 48 49 50	220 kV xport of 400 kV 220 kV xport of 1 HVDC 765 kV 400 kV 220 kV 400 kV LINK 765 kV	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAMPA-KURUKSHETRA VCHAMPA-KURUKSHETRA PHAGI-GWALIOR 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	D/C	0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 0 97 0 1582 0 0 WR-NR 1000 0 UR-NR	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0 32.7	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 163.5 22.0 0.0 20.1 35.2	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.0 0.0 -130.8
28 29 30 31 31 port/E 32 33 34 35 36 37 38 39 40 41 42 42 43 44 45 46 port/E 47 47 48 49 50 51	220 kV xport of 400 kV 220 kV xport of 1 HVDC 765 kV 400 kV 220 kV 400 kV LINK 765 kV	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C D/C D/C D/C D/C S/C S/C	0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 97 0 1582 0 0 WR-NE 1000 0 1460 2202 35	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 163.5 22.0 0.0 20.1 35.2 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -2.1 -30.5 -52.0 -29.3 3.4 1.7 -2.1 1.4 0.1 2.0 1.0 0.0 -130.8 -22.0 0.0 -20.1 -35.2 5.2
28 aport/E 29 30 31 aport/E 32 aport/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 220 kV 400 kV 220 kV 132kV Export of 1 HVDC Approved to 400 kV 400 kV 400 kV 400 kV	ER (With NER) 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 ZERDA-KANKOLI ZERDA-KANKOLI ZERDA-BHINNAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHARDRAWATI B/B BARSUR-L.SILERU SOLAPUR-NICAMBAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 250 0 476 348 321 954 0 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 97 0 1582 0 0 0 WR-NR 1000 0 1460 2202 35	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 10.5 10.6 0.0 0.7 0.0 0.0 0.0 0.0 1.4 0.3 2.0 0.0 0.0 32.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.9 0.9 0.0 0.0 0.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 0.0 -130.8 -22.0 0.0 -20.1 -35.2 5.2 0.0
28 apport/E 32 apport/E 32 apport/E 33 apport/E 33 apport/E 34 44 45 44 45 46 apport/E 47 48 49 50 51 52 53	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 220 kV 400 kV 220 kV 132kV Export of 1 HVDC Approved to 400 kV 400 kV 400 kV 400 kV	ER (With NER) 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 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	D/C D/C D/C D/C D/C S/C S/C	0 0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NR 1636 250 1814 2666 0 0 97 0 1582 0 0 WR-NR 1000 0 1460 2202 35 0 0	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 10.5 0.0 0.0 0.0 0.0 1.4 0.3 2.0 1.0 0.0 0.0 32.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	81.5 0.0 0.9 0.9 0.0 0.0 46.6 2.8 30.5 52.0 29.3 0.0 0.0 0.0 163.5 22.0 0.0 20.1 35.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 0.0 -130.8 -22.0 0.0 -20.1 -35.2 5.2 0.0 0.0
28 pport/E 32 pport/E 32 pport/E 33 33 34 35 36 37 38 40 41 42 43 44 45 46 pport/E 50 51 52 53	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 220 kV 400 kV 220 kV 132kV Export of 1 HVDC Approved to 400 kV 400 kV 400 kV 400 kV	ER (With NER) 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 ZERDA-ASHINMAL VCHAL-RIHAND RAPP-SHUALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSURL-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-ANASALAKATI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 0 97 0 1582 0 0 WR-NR 1000 0 1460 2202 35 0 0 WR-SR	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0 32.7	0.0 0.9 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.00 -130.8 -22.0 0.0 -20.1 -35.2 5.2 0.0 0.0 1.5
28 pport/E 32 pport/E 32 pport/E 33 33 34 35 36 37 38 40 41 42 43 44 45 46 pport/E 50 51 52 53	220 kV Export of 400 kV 220 kV Export of 1 HVDC Approved to 400 kV 220 kV 400 kV 220 kV 132kV Export of 1 HVDC Approved to 400 kV 400 kV 400 kV 400 kV	ER (With NER) 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 ZERDA-ASHINMAL VCHAL-RIHAND RAPP-SHUALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSURL-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-ANASALAKATI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 0 250 0 476 348 321 954 0 83 35 104 48 0	259 242 0 ER-NER 0 NER-NER 1636 250 1814 2666 0 0 0 97 0 1582 0 0 WR-NR 1000 0 1460 2202 35 0 0 WR-SR	0.0 0.0 0.0 3.9 0.0 5.9 10.5 10.5 10.5 10.5 0.0 0.7 0.0 0.0 0.0 3.4 1.7 22.1 0 1.4 0.3 2.0 1.0 0.0 32.7	0.0 0.9 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-81.5 2 4 -1 5.0 10.5 10.5 10.5 10.5 -46.6 -2.1 -30.5 -52.0 -29.3 3.4 1.7 22.1 -2 1.4 0.1 2.0 1.00 -130.8 -22.0 0.0 -20.1 -35.2 5.2 0.0 0.0 1.5