

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: 30th 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 29.01.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th January 2018, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day 30-Jan-18

A. Maximum Demand

	ND	TI/D	CD	ED	NED	TD - 4 - 1
	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43873	44735	39702	17409	2398	148116
Peak Shortage (MW)	546	55	0	0	37	639
Energy Met (MU)	904	1047	905	347	40	3243
Hydro Gen(MU)	95	21	55	28	8	208
Wind Gen(MU)	3	13	47			64
Solar Gen (MU)*	6.51	17.29	38.52	0.77	0.02	63
Energy Shortage (MU)	15.7	0.0	0.8	0.0	0.7	17.2
Maximum Demand Met during the day	45629	50471	42083	18057	2297	151344
(MW) (from NLDC SCADA)	45029	304/1	42083	1005/	4491	151344

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	0.039	0.00	0.30	8.95	9.25	78.97	11.78

C. Power Supply Position in States

RegionRegion	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	5198	0	101.2	16.4	-0.1	140	0.0
	Haryana	6610	0	115.5	56.2	1.8	248	0.2
	Rajasthan	10666	618	209.1	70.9	3.5	462	4.5
NR	Delhi	4030	0	67.4	52.9	-0.1	259	0.0
	UP	13871	0	295.9	106.1	1.2	1030	0.0
	Uttarakhand	2048	0	37.5	29.1	0.6	195	0.0
	HP	1492	0	26.7	22.1	0.8	228	0.0
	J&K	2229	557	46.7	42.6	0.3	124	11.0
	Chandigarh	242	0	3.7	3.4	0.2	54	0.0
	Chhattisgarh	3320	0	74.1	6.1	-1.8	144	0.0
	Gujarat	14143	0	297.1	135.5	1.7	526	0.0
WR MI Ma Go DI DN Ess	MP	11391	0	213.4	126.1	-2.6	289	0.0
	Maharashtra	20567	0	417.7	131.8	2.7	379	0.0
	Goa	473	0	9.6	8.5	0.5	51	0.0
	DD	327	0	7.3	6.7	0.6	63	0.0
	DNH	769	0	17.5	16.5	1.0	79	0.0
	Essar steel	520	0	10.1	10.0	0.1	159	0.0
	Andhra Pradesh	8474	0	166.8	45.3	-1.7	377	0.1
	Telangana	8948	0	176.7	69.1	-1.2	380	0.1
SR	Karnataka	9865	0	207.6	89.6	-1.7	549	0.2
3N	Kerala	3529	0	66.5	50.5	1.5	268	0.1
3K	Tamil Nadu	13695	0	281.2	150.3	1.3	518	0.3
	Pondy	316	0	6.3	6.9	-0.5	33	0.0
	Bihar	4424	0	69.2	62.5	-1.6	194	0.0
	DVC	3172	0	69.1	-37.7	-1.0	145	0.0
ER	Jharkhand	1088	0	23.8	14.0	-0.4	71	0.0
-11	Odisha	4112	0	77.5	24.8	-2.2	310	0.0
	West Bengal	6016	0	105.9	19.7	2.5	374	0.0
	Sikkim	107	0	1.9	1.8	0.1	15	0.0
	Arunachal Pradesh	120	4	1.9	1.8	0.1	35	0.0
	Assam	1427	4	22.2	18.6	1.6	154	0.6
	Manipur	184	3	2.6	2.7	-0.1	14	0.0
NER	Meghalaya	316	0	5.5	3.1	-0.1	47	0.0
	Mizoram	87	4	1.7	0.7	0.3	31	0.0
	Nagaland	112	2	2.0	1.6	0.3	41	0.0
	Tripura	226	1	3.6	1.0	1.0	62	0.0

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

Di Transnational Exenanges (Wie	/ 	T	T 1
	Bhutan	Nepal	Bangladesh
Actual(MU)	3.2	-8.7	-12.5
Day peak (MW)	151.3	-458.7	-619.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	171.4	-175.8	89.3	-88.2	4.0	0.6
Actual(MU)	168.1	-178.9	83.2	-84.2	6.5	-5.3
O/D/U/D(MU)	-3.3	-3.0	-6.1	4.0	2.5	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4407	14366	6082	1220	190	26264
State Sector	9110	17300	6433	5355	50	38248
Total	13517	31666	12515	6575	239	64512

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	578	1136	567	428	10	2719
Hydro	95	21	55	28	8	208
Nuclear	29	24	72	0	0	125
Gas, Naptha & Diesel	23	41	18	0	18	100
RES (Wind, Solar, Biomass & Others)	36	30	124	2	0	192
Total	761	1252	837	458	36	3344

						Date of I	Reporting	: 30-Jan-
								Import=(+ve) /Export =(-ve)
Sl No	Voltage	Line Details	Circuit	Max Import	Max Export (MW)	Import (MU)	Export	for NET (MU) NET
nnort/F	Level	ER (With NR)		(MW)		_	(MU)	(MU)
1	Aport or	GAYA-VARANASI	D/C	0	330	0.0	8.6	-8.6
2	765kV	SASARAM-FATEHPUR	S/C	0	200	0.0	1.0	-1.0
3		GAYA-BALIA	S/C	0	270	0.0	6.6	-6.6
5	HVDC	ALIPURDUAR-AGRA PUSAULI B/B	S/C	0	0 247	0.0	6.0	-6.0
6		PUSAULI-VARANASI	S/C	0	182	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	520	0.0	8.4	-8.4
9	400 kV	PATNA-BALIA	Q/C	0	1205	0.0	19.5	-19.5
10		BIHARSHARIFF-BALIA	D/C	0	273	0.0	6.1	-6.1
11		MOTIHARI-GORAKHPUR	D/C	0	0	0.0	4.7	-4.7
12	220 1 37	BIHARSHARIFF-VARANASI	D/C	0	131	0.0	1.8	-1.8
13 14	220 kV	PUSAULI-SAHUPURI SONE NAGAR-RIHAND	S/C S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C S/C	0	0	0.0	0.0	0.0
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
					ER-NR	0.5	62.7	-62.2
port/E	xport of	ER (With WR)						
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	0	0	5.6	0.0	5.6
19	/ US K V	NEW RANCHI-DHARAMJAIGARH	D/C	0	543	0.0	5.0	-5.0
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	242	0.6	0.0	0.6
21	400 K V	RANCHI-SIPAT	D/C	0	102	1.5	0.0	1.5
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	175	0.0	2.7	-2.7
23		BUDHIPADAR-KORBA	D/C	0	0 ER-WR	1.3 9.0	0.0 7.7	1.3 1.3
mort/E	export of	ER (With SR)			ER-WK	2.0	7.7	1.3
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	16.9	-16.9
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	345.7	0.0	15.2	-15.2
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1885.7	0.0	32.2	-32.2
27	400 kV	TALCHER-I/C	D/C	0.0	168.3	6.6	1.6	5.0
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
4 /15		CED (MY41 MED)			ER-SR	0.0	64.3	-64.3
	xport of	ER (With NER)						
20			D/C	\cap	233	2.0	0.0	2
29 30	400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	0	233	2.0	0.0	2 4
29 30 31		ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C D/C	0 0	233 217 0	2.0 3.9 0.0	0.0	2 4 -1
30		ALIPURDUAR-BONGAIGAON	D/C	0	217	3.9		4
30	220 kV	ALIPURDUAR-BONGAIGAON	D/C	0	217 0	3.9 0.0	0.9	4 -1
30	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	217 0 ER-NER	3.9 0.0 5.9	0.9 0.9 0.0	4 -1 5.0
30 31 aport/E 32	220 kV export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C D/C	0	217 0 ER-NER	3.9 0.0 5.9	0.9 0.9	4 -1 5.0
30 31 aport/E 32	220 kV export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C D/C	0 0	217 0 ER-NER 0 NER-NR	3.9 0.0 5.9 11.7 11.7	0.9 0.9 0.0 0.0	11.7 11.7
30 31 nport/E 32 nport/E 33	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	0 0 495	217 0 ER-NER 0 NER-NR	3.9 0.0 5.9 11.7 11.7	0.9 0.9 0.0 0.0 59.8	4 -1 5.0 11.7 11.7
30 31 32 32 aport/E 33 34	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	D/C D/C - D/C D/C D/C	0 0 495 0 450	217 0 ER-NER 0 NER-NR	3.9 0.0 5.9 11.7 11.7 0.0 2.2	0.9 0.9 0.0 0.0 59.8 0.7	4 -1 5.0 11.7 11.7 -59.8 1.6
30 31 aport/E 32 aport/E 33	220 kV Export of HVDC Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C	0 0 495	217 0 ER-NER 0 NER-NR	3.9 0.0 5.9 11.7 11.7	0.9 0.9 0.0 0.0 59.8 0.7 15.9	4 -1 5.0 11.7 11.7 -59.8 1.6 -15.9
30 31 32 32 aport/E 33 34 35	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	D/C D/C D/C D/C D/C D/C D/C	0 0 495 0 450 0	217 0 ER-NER 0 NER-NR 1442 100 708	3.9 0.0 5.9 11.7 11.7 0.0 2.2 0.0	0.9 0.9 0.0 0.0 59.8 0.7	4 -1 5.0 11.7 11.7 -59.8 1.6
30 31 31 32 32 33 34 35 36	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	D/C D/C D/C D/C D/C D/C D/C D/C	0 0 495 0 450 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454	3.9 0.0 5.9 11.7 11.7 0.0 2.2 0.0 0.0	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9	-59.8 1.6 -15.9 -47.9
30 31 31 32 32 34 35 36 37	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	D/C D/C D/C D/C D/C D/C D/C D/C D/C	0 0 495 0 450 0 0 478	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372	3.9 0.0 5.9 11.7 11.7 0.0 2.2 0.0 0.0 0.0	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1	4 -1 5.0 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1
30 31 31 32 32 33 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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C	0 0 495 0 450 0 0 478 257 186 961	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0	4 -1 5.0 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8
30 31 31 32 32 33 34 35 36 37 38 39 40 41	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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C D/C	0 0 495 0 450 0 0 478 257 186 961 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566	3.9 0.0 5.9 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 3	4 -1 5.0 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3
30 31 31 32 32 33 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 V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	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	0 0 495 0 450 0 0 478 257 186 961 0 67	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0	3.9 0.0 5.9 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 3 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43	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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	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	0 0 495 0 450 0 0 478 257 186 961 0 67 41	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2
30 31 31 32 32 32 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of HVDC Axport 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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 0.1 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45	220 kV Export of HVDC Axport 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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4	3.9 0.0 5.9 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 0.0 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	220 kV Export of HVDC Axport 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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 0.1 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of HVDC Aport of HVDC 765 kV 400 kV 220 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 ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of HVDC 765 kV 400 kV 220 kV 132kV	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-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	220 kV Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8	0.9 0.9 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	220 kV Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 0.3 2.2 0.6 0.0 32.8	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	220 kV Export of HVDC 765 kV 220 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 V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8	0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV Export of HVDC 765 kV 400 kV 220 kV Apport of HVDC LINK	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-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 D/C S/C S/C S/C S/C S/C S/C S/C S/C D/C S/C S/C D/C D/C D/C D/C D/C D/C D/C D/C D/C D	0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138 11	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9 19.7 0.0 8.0 31.9 0.1	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9 4.2
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	220 kV Export of HVDC 765 kV 400 kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138 11	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 0.3 2.2 0.6 0.0 32.8	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9 19.7 0.0 8.0 31.9 0.1 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9 4.2 0.0
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	220 kV Export of HVDC 765 kV 400 kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138 11 0 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8 0.0 0.0 0.0 0.0	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9 19.7 0.0 8.0 31.9 0.1 0.0 0.0 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9 4.2 0.0 0.0
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	220 kV Export of HVDC 765 kV 400 kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 495 0 450 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138 11 0 0 0	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8 0.0 0.0 0.0 1.5	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9 19.7 0.0 8.0 31.9 0.1 0.0 0.0 0.0 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9 4.2 0.0 0.0 1.5
30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	220 kV Export of HVDC 765 kV 400 kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138 11 0 0 0 WR-SR	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8 0.0 0.0 0.0 0.0	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9 19.7 0.0 8.0 31.9 0.1 0.0 0.0 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9 4.2 0.0 0.0
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 51 52 53	220 kV Export of HVDC 765 kV 400 kV Export of HVDC LINK 765 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 495 0 450 0 0 478 257 186 961 0 67 41 196 50 0	217 0 ER-NER 0 NER-NR 1442 100 708 2454 1372 0 59 0 1566 0 16 0 4 0 WR-NR 1000 0 1160 2138 11 0 0 0 WR-SR	3.9 0.0 5.9 11.7 11.7 11.7 0.0 2.2 0.0 0.0 0.0 3.7 1.7 21.8 0 0.3 0.3 2.2 0.6 0.0 32.8 0.0 0.0 0.0 1.5	0.9 0.9 0.0 0.0 0.0 59.8 0.7 15.9 47.9 28.1 0.0 0.0 0.0 0.0 154.9 19.7 0.0 8.0 31.9 0.1 0.0 0.0 0.0 0.0	4 -1 5.0 11.7 11.7 11.7 -59.8 1.6 -15.9 -47.9 -28.1 3.7 1.7 21.8 -3 0.3 0.2 2.2 0.6 0.0 -122.1 -19.7 0.0 -8.0 -31.9 4.2 0.0 0.0 1.5