

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: 23rd Mar 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 22.03.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-Mar-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 22nd Mar 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 23-Mar-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	40332	45330	44780	20660	2411	153513
Peak Shortage (MW)	835	44	215	0	68	1162
Energy Met (MU)	883	1100	1039	417	40	3480
Hydro Gen(MU)	104	22	62	34	6	228
Wind Gen(MU)	4	39	49			92
Solar Gen (MU)*	7.69	20.15	55.24	0.78	0.02	84
Energy Shortage (MU)	11.5	0.0	0.0	0.0	0.6	12.0
Maximum Demand Met during the day (MW) (from NLDC SCADA)	43187	49423	45655	20838	2409	157808

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	0.049	0.00	0.19	14.90	15.08	79.36	5.56

C. Power Supply Position in States

C. Power Supply Posi	tion in States	Max. Demand Met	Shortage during			OD () #ID ()	14 OD	_
RegionRegion	States	during the day	maximum Demand	Energy Met (MU)	Drawal	OD(+)/UD(-)	Max OD	Energy
		(MW)	(MW)	3.	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	4886	0	103.5	18.4	-0.4	148	0.0
	Haryana	5745	475	119.0	46.6	2.4	246	1.4
	Rajasthan	9510	0	185.6	42.5	3.0	462	0.0
	Delhi	3523	0	69.8	55.1	-0.1	139	0.1
NR	UP	14804	255	297.4	98.9	0.2	612	0.0
	Uttarakhand	1783	0	36.3	26.7	0.5	139	0.0
	HP	1446	0	26.1	20.6	0.1	117	0.0
	J&K	2019	505	42.6	39.0	-1.4	105	10.0
	Chandigarh	167	0	3.1	3.0	0.2	40	0.0
	Chhattisgarh	3848	0	86.3	15.8	-1.5	46	0.0
	Gujarat	14966	0	326.1	177.4	3.7	347	0.0
	MP	8684	0	177.3	85.0	-1.9	313	0.0
WR	Maharashtra	21488	0	460.1	132.9	-1.3	271	0.0
VVK	Goa	484	0	11.0	10.3	0.1	35	0.0
	DD	332	0	7.5	6.9	0.7	95	0.0
	DNH	773	0	18.0	17.1	0.9	61	0.0
	Essar steel	622	0	13.3	12.2	1.1	223	0.0
	Andhra Pradesh	8424	0	181.3	53.5	-0.5	754	0.0
	Telangana	10034	0	223.3	108.7	-0.5	397	0.0
SR	Karnataka	10085	0	219.8	73.2	-1.0	411	0.0
310	Kerala	3660	0	76.5	54.7	1.7	192	0.0
	Tamil Nadu	14442	0	330.7	155.0	1.4	573	0.0
	Pondy	359	0	7.6	7.8	-0.3	25	0.0
	Bihar	4459	0	81.5	71.0	1.0	220	0.0
	DVC	2961	0	67.4	-49.7	-1.3	220	0.0
ER	Jharkhand	1270	0	24.3	13.9	0.5	85	0.0
	Odisha	4365	0	86.8	40.4	1.1	225	0.0
	West Bengal	8303	0	155.9	51.0	1.1	225	0.0
	Sikkim	99	0	1.4	1.3	0.1	15	0.0
	Arunachal Pradesh	96	5	2.0	1.8	0.3	31	0.0
	Assam	1465	33	23.0	18.9	0.9	94	0.4
	Manipur	161	2	2.3	2.4	-0.1	20	0.0
NER	Meghalaya	285	1	5.4	3.5	0.1	35	0.0
	Mizoram	86	4	1.5	1.2	0.2	31	0.0
	Nagaland	125	3	2.1	1.9	0.1	17	0.0
	Tripura	251	2	3.8	3.3	0.5	32	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.5	-10.6	-14.6
Day peak (MW)	247.6	-301.0	-644.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	127.2	-171.5	104.8	-62.5	2.7	0.7
Actual(MU)	128.4	-179.4	92.0	-43.4	3.9	1.5
O/D/U/D(MU)	1.2	-7.8	-12.8	19.1	1.2	0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4760	13051	6052	1580	245	25689
State Sector	8885	18303	3620	4525	50	35383
Total	13645	31354	9672	6105	295	61071

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	579	1123	680	461	11	2854
Hydro	104	22	62	34	6	228
Nuclear	23	24	46	0	0	93
Gas, Naptha & Diesel	27	54	21	0	23	125
RES (Wind, Solar, Biomass & Others)	40	59	148	2	0	250
Total	774	1282	957	497	41	3550

		INI	K-KEGI	ONAL EXO	CHANGES	Date of 1	Reporting :	23-Ma
								Import=(+ve) /Export =(-ve) for NET (MU
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<u> </u>	Export of 1	ER (With NR)	D/C	1 0	202	0.0	2.2	
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	0	292 95	0.0	3.2 0.0	-3.2 0.4
3	705K	GAYA-BALIA	S/C	0	397	0.0	6.4	-6.4
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	13.2	-13.2
5	HVDC	PUSAULI B/B	S/C	0	0	0.0	0.0	0.0
6		PUSAULI-VARANASI	S/C	0	53	0.8	0.0	0.8
7		PUSAULI -ALLAHABAD	S/C	0	0	1.9	0.0	1.9
8		MUZAFFARPUR-GORAKHPUR	D/C	0	231	0.0	0.8	-0.8
9	400 kV	PATNA-BALIA	Q/C	0	624	0.0	10.8	-10.8
10	4	BIHARSHARIFF-BALIA	D/C	0	153	0.0	3.3	-3.3
11	-	MOTIHARI-GORAKHPUR	D/C	0	251	0.0	4.1	-4.1
12	****	BIHARSHARIFF-VARANASI	D/C	0	473	0.4	0.0	0.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	172	0.0	3.3	-3.3
14 15	1	SONE NAGAR-RIHAND GARWAH-RIHAND	S/C S/C	0	0	0.0	0.0	0.0
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.7	0.0	0.7
17	1	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	S/C S/C	0	0	0.0	0.0	0.0
	1	•	3/	1 0	ER-NR	4.3	45.1	-40.8
	Export of	ER (With WR)	D.::	_	^	20.4	0.0	20.1
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH	D/C D/C	0	0 194	20.6 3.5	0.0	20.6
20		JHARSUGUDA-RAIGARH	O/C	0	0	12.9	0.0	12.9
21	400 kV	RANCHI-SIPAT	D/C	0	0	3.1	0.0	3.1
22	220177	BUDHIPADAR-RAIGARH	S/C	0	131	0.0	1.6	-1.6
23	220 kV	BUDHIPADAR-KORBA	D/C	0	0	4.7	0.0	4.7
port/I	Export of 1	ER (With SR)			ER-WR	44.7	1.6	43.1
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	27.4	-27.4
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	347.1	0.0	14.5	-14.5
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1893.3	0.0	43.2	-43.2
27	400 kV	TALCHER-I/C	D/C	0.0	506.8	2.0	7.4	-5.4
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
					ER-SR	0.0	85.1	-85.1
	Export of	ER (With NER)	1		T	T		
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	1099	0.0	5.3	-5
						3.9		
30	****	ALIPURDUAR-BONGAIGAON	D/C	0	944	0.0	1.0	4
30	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	0	0	0.0	1.6	-2
31		ALIPURDUAR-SALAKATI				0.0 3.9	1.6 6.9	
31 port/I	Export of 1	ALIPURDUAR-SALAKATI NER (With NR)		0	0 ER-NER	3.9	6.9	-2 -3.0
31		ALIPURDUAR-SALAKATI NER (With NR)			0			-2
31 port/I 32	Export of I	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA		0	0 ER-NER 0	3.9 0.0	6.9 0.0	-2 -3.0
31 port/I 32 port/I	Export of I	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C	0	0 ER-NER 0 NER-NR	0.0 0.0	6.9 0.0	-2 -3.0 0.0 0.0
31 port/I 32	Export of I	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA		0	0 ER-NER 0	3.9 0.0	0.0 0.0	-2 -3.0
31 port/F 32 port/F 33	Export of 1 HVDC Export of 1	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C - D/C	0 0	0 ER-NER 0 NER-NR	0.0 0.0 0.0	0.0 0.0 48.8	-2 -3.0 0.0 0.0
31 port/I 32 port/I 33 34	Export of MVDC Export of MVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C - D/C D/C	0 0 22 0	0 ER-NER 0 NER-NR 1303 250	0.0 0.0 0.0 0.0	0.0 0.0 48.8 2.0	-2 -3.0 0.0 0.0 -48.8 -2.0
31 port/F 32 port/F 33 34 35	Export of 1 HVDC Export of 1	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	0 22 0 0	0 ER-NER 0 NER-NR 1303 250 307	0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4
31 port/I 32 port/I 33 34 35 36	Export of MVDC Export of MVDC	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	0 22 0 0 0	0 ER-NER 0 NER-NR 1303 250 307 2570	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7
31 port/I 32 port/I 33 34 35 36 37	Export of Y HVDC Export of Y HVDC - 765 kV	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	0 0 22 0 0 0 0 485	0 ER-NER 0 NER-NR 1303 250 307 2570 1172	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1
31 port/F 32 port/F 33 34 35 36 37 38	Export of MVDC Export of MVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI	D/C D/C D/C D/C D/C D/C S/C	0 22 0 0 0 0 485 450	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0
31 port/I 32 port/I 33 34 35 36 37 38 39 40 41	Export of Y HVDC Export of Y HVDC - 765 kV	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	0 22 0 0 0 0 485 4460 971 17	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 0 280	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 1	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7
31 32 32 33 34 35 36 37 38 39 40 41 42	Export of Y HVDC Export of Y HVDC - 765 kV	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 S/C S/C	0 22 0 0 0 0 485 450 460 971 17 130	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 0 280	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.0 7.5 22.7 0 1.5	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 1 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5
31 32 32 33 34 35 36 37 38 39 40 41 42 43	Export of Y HVDC Export of Y HVDC - 765 kV	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-KOTA BADOD-MORAK	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 485 450 460 971 17 130 63	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3
31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	Export of 1 HVDC Export of 1 HVDC 765 kV	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 S/C S/C	0 22 0 0 0 485 450 460 971 17 130 63 75	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32 0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.0 7.5 22.7 0 1.5 0.4	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 1 0.0 0.1 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3
31 port/F 32 port/F 33 34 35 36 37 38 39 40 41 42 43 44 45	Export of 1 HVDC Export of V HVDC 765 kV 400 kV	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-MOTA BADOD-MOTA MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 485 450 460 971 17 130 63 75 39	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32 0 12	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 1 0.0 0.1 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3
31 pport/F 32 33 34 35 36 37 38 39 40 41 42 43 44	Export of 1 HVDC Export of 1 HVDC 765 kV	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 S/C S/C	0 22 0 0 0 485 450 460 971 17 130 63 75	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32 0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.0 7.5 22.7 0 1.5 0.4	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 1 0.0 0.1 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3
31 port/N 32 port/N 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV	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 MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 460 971 17 130 63 75 39 0	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32 0 12 0 WR-NR	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 1 0.0 0.1 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0
31 port/F 32 port/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 port/F 47	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC	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 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 S/C S	0 22 0 0 0 0 485 450 460 971 17 130 63 75 39 0	0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 1 0.0 0.1 0.0 0.1 23.9	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 -89.9
31 32 port/F 32 33 34 35 36 37 38 39 40 41 42 44 45 46 port/F 47 48	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1	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-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 485 450 460 971 17 130 63 75 39 0	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32 0 12 0 WR-NR	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 0.1 0.0 0.1 0.0 132.5	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.0 -89.9
31 port/H 32 port/H 33 34 34 35 36 37 38 39 40 41 42 43 44 45 46 port/H 47 48 49	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC	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-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	0 22 0 0 0 0 485 450 460 971 17 130 63 75 39 0	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 0 280 1 32 0 12 0 WR-NR	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 1 0.0 0.1 0.0 0.1 132.5	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9
31 port/II 32 port/II 33 34 35 36 37 38 39 40 41 42 43 44 45 46 port/II 47 48 49 50	Export of 1 HVDC Export of Y HVDC 765 kV 400 kV 220 kV 132kV Export of Y HVDC LINK 765 kV	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 BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 485 450 460 971 17 130 63 75 39 0	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 0 280 1 32 0 12 0 WR-NR 1000 0 672 1864	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9
31 32 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 47 48 49 50 51	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC LINK	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 BHARSUR-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 22 0 0 0 0 485 450 460 971 17 130 63 75 39 0 0 0	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 280 1 32 0 12 0 WR-NR 1000 0 672 1864 0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 0.0 -89.9 -23.9 0.0 -6.1 -32.9 8.4
31 port/F 32 port/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 port/F 47 48 49 50 51 52	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC 111kK 765 kV	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 BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHARSWALI B/B BARSWALSI B/B BARSWALSI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 460 971 17 130 63 75 39 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ER-NER 0 NER-NR 1303 250 307 2570 1172 0 0 0 280 1 32 0 12 0 WR-NR 1000 0 672 1864 0 0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.0 1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 0.0 -89.9 -23.9 0.0 -6.1 -32.9 8.4
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Export of 1 HVDC Export of Y HVDC 765 kV 400 kV 220 kV 132kV Export of Y HVDC LINK 765 kV	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 MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 460 971 17 130 63 75 39 0 0 0 542 0 0 0	0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9 0.0 0.0
31 32 port/F 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC 111kK 765 kV	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 BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHARSWALI B/B BARSWALSI B/B BARSWALSI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 460 971 17 130 63 75 39 0 0 0 0 0 0 0 0 0 0 0 0 0	0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9 0.0 0.0 -6.1 -32.9 0.0 0.0
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC 111kK 765 kV	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 MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZ-AUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 450 460 971 17 130 63 75 39 0 0 542 0 576 0 0 104	0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9 -23.9 0.0 0.0
31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC 111kK 765 kV	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 MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZ-AUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 460 971 17 130 63 75 39 0 0 0 542 0 0 0	0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9 -6.1 -32.9 0.0
31 32 32 32 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Export of 1 HVDC Export of 1 HVDC 765 kV 400 kV 132kV Export of 1 HVDC 111kK 765 kV	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 MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZ-AUBGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 22 0 0 0 0 485 450 460 971 17 130 63 75 39 0 0 542 0 576 0 0 104	0	3.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.9 0.0 0.0 48.8 2.0 7.4 52.7 20.1 0.0 0.0 0.1 0.0 0.1 0.0 132.5 23.9 0.0 6.1 32.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-2 -3.0 0.0 0.0 -48.8 -2.0 -7.4 -52.7 -20.1 9.0 7.5 22.7 -1 1.5 0.3 1.1 0.3 0.0 -89.9 0.0 -6.1 -32.9 8.4 0.0 0.0 1.9