

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: 9th Jan 2018

To,

- 1. 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 08.01.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 8th January 2018, is available at the NLDC website.

धन्यवाद,

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

Report for previous day 9-Jan-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44371	45116	39406	17512	2387	148792
Peak Shortage (MW)	601	11	0	0	48	660
Energy Met (MU)	927	1042	902	339	42	3252
Hydro Gen(MU)	109	26	50	25	9	219
Wind Gen(MU)	4	32	33			68
Solar Gen (MU)*	0.55	16.20	41.14	0.66	0.02	59
Energy Shortage (MU)	15.0	0.0	0.4	0.0	0.4	15.9
Maximum Demand Met during the day (MW) (from NLDC SCADA)	46242	50590	42689	17517	2393	153073

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	0.044	0.00	0.65	8.16	8.81	75.88	15.31

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	5768	0	105.4	19.2	-0.3	96	0.0
	Haryana	6671	0	123.3	60.4	2.1	386	1.4
	Rajasthan	10681	34	209.3	70.4	2.1	361	0.7
	Delhi	4181	0	68.6	53.4	-1.4	198	0.0
NR	UP	14278	0	305.3	109.9	1.7	643	0.9
	Uttarakhand	2094	0	38.3	27.9	0.4	216	0.0
	HP	1553	0	26.6	21.9	0.2	160	1.0
	J&K	2197	549	46.7	44.1	-1.7	72	11.0
	Chandigarh	235	0	3.7	4.0	-0.3	11	0.0
	Chhattisgarh	3421	0	73.3	11.6	-1.1	338	0.0
	Gujarat	14072	0	296.2	102.3	2.1	455	0.0
	MP	11938	0	225.2	132.4	-1.8	353	0.0
MD	Maharashtra	20094	0	405.2	127.7	1.1	271	0.0
WR	Goa	436	0	9.2	8.3	0.5	42	0.0
	DD	328	0	7.0	6.4	0.5	40	0.0
	DNH	755	0	17.3	16.6	0.7	55	0.0
	Essar steel	448	0	8.7	8.9	-0.2	185	0.0
	Andhra Pradesh	8140	0	162.2	51.3	1.0	412	0.1
	Telangana	9262	0	177.8	81.1	-3.4	570	0.1
CD	Karnataka	9776	0	202.6	89.4	4.7	416	0.1
SR	Kerala	3480	0	64.2	51.1	0.4	191	0.0
	Tamil Nadu	13779	0	288.9	154.3	4.2	560	0.1
	Pondy	307	0	6.0	6.8	-0.7	33	0.0
	Bihar	4102	0	71.5	69.9	-2.5	200	0.0
	DVC	2831	0	69.2	-28.3	-1.1	190	0.0
ER	Jharkhand	1085	0	24.8	13.4	1.2	45	0.0
EK	Odisha	3706	0	68.5	25.7	1.5	250	0.0
	West Bengal	6399	0	103.3	11.7	0.4	225	0.0
	Sikkim	106	0	1.6	2.0	-0.4	10	0.0
	Arunachal Pradesh	127	1	2.3	2.1	0.2	56	0.0
	Assam	1401	21	22.8	19.4	0.6	172	0.3
	Manipur	185	2	2.8	2.8	0.0	23	0.0
NER	Meghalaya	320	0	6.7	4.0	-0.1	45	0.0
	Mizoram	88	1	1.8	1.0	0.1	26	0.0
	Nagaland	125	1	2.0	1.9	-0.1	21	0.0
	Tripura	224	0	3.5	1.7	0.1	29	0.0

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

2. Transmational Exemanges (1710) Import	Bhutan	Nepal	Bangladesh
Actual(MU)	1.8	-10.5	-11.5
Day peak (MW)	132.7	-297.0	-622.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	181.9	-220.8	104.0	-66.6	1.5	0.0
Actual(MU)	177.7	-227.7	96.5	-61.3	1.9	-13.0
O/D/U/D(MU)	-4.2	-6.9	-7.5	5.2	0.4	-13.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4314	12259	6032	1220	290	24115
State Sector	8910	17235	5660	4155	50	36010
Total	13224	29494	11692	5375	339	60125

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	584	1167	549	393	10	2703
Hydro	109	24	50	25	9	217
Nuclear	29	24	71	0	0	124
Gas, Naptha & Diesel	31	42	19	0	24	116
RES (Wind, Solar, Biomass & Others)	29	48	121	2	0	200
Total	782	1304	810	420	43	3359

						Date of I	Reporting :	9-Jai
	T							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	export of	ER (With NR) GAYA-VARANASI	D/C	0	339	0.0	8.5	-8.5
2	765KV	SASARAM-FATEHPUR	S/C	0	159	0.4	0.0	0.4
3		GAYA-BALIA	S/C	0	407	0.0	7.1	-7.1
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	245	0.0	1.7	-1.7
6 7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	216 80	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	390	0.0	6.4	-6.4
9	400 KV	PATNA-BALIA	Q/C	0	1080	0.0	20.3	-20.3
10		BIHARSHARIFF-BALIA	D/C	0	277	0.0	3.4	-3.4
11		MOTIHARI-GORAKHPUR	D/C	0	0	5.4	0.0	5.4
12		BIHARSHARIFF-VARANASI	D/C	0	340	0.0	0.2	-0.2
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 16	132 KV	GARWAH-RIHAND KARMANASA-SAHUPURI	S/C S/C	0	0	0.5	0.0	0.5
17		KARMANASA-SAHUPURI KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	6.2	47.6	-41.4
_		ER (With WR)	D/C	0	105	E 4	0.0	<i>7.4</i>
18	765 KV	JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH	D/C D/C	0	105 99	5.4 4.6	0.0	5.4
20		JHARSUGUDA-RAIGARH	Q/C	0	219	1.0	0.0	1.0
21	400 kV	RANCHI-SIPAT	D/C	0	0	4.1	0.0	4.1
22	220 KV	BUDHIPADAR-RAIGARH	S/C	0	108	0.0	1.1	-1.1
23	220 KV	BUDHIPADAR-KORBA	D/C	0	0	2.0	0.0	2.0
mort/F	xport of	ER (With SR)			ER-WR	17.2	1.1	16.1
24	765 KV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	19.4	-19.4
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	345.7	0.0	16.1	-16.1
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1869.1	0.0	23.3	-23.3
27	400 KV	TALCHER-I/C	D/C	0.0	1225.0	0.0	17.0	-17.0
28	220 KV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
an out /E	rmout of	ED (With MED)			ER-SR	0.0	58.8	-58.8
29	export of	ER (With NER)	D/C	0	1229	0.0	7.2	-7
30	400 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	0	983	0.0	7.0	-7
31	220 KV	ALIPURDUAR-SALAKATI	D/C	0		0.0		-/
				U	0	0.0	2.5	-2
nport/F				U	0 ER-NER	0.0	2.5 16.7	-2 -16.7
- P 0 - 0, -	Export of	NER (With NR)		0				
32		NER (With NR) BISWANATH CHARIALI-AGRA	-	0	ER-NER	0.0	16.7 14.6	-16.7 -14.6
32	HVDC	BISWANATH CHARIALI-AGRA	T		ER-NER	0.0	16.7	-16.7
32	HVDC	BISWANATH CHARIALI-AGRA WR (With NR)	-	0	ER-NER 601 NER-NR	0.0	16.7 14.6 14.6	-16.7 -14.6 -14.6
32 nport/E 33	HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	- D/C	0	601 NER-NR	0.0 0.0 0.0	14.6 14.6 47.5	-14.6 -14.6 -47.5
32 nport/E 33 34	HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	- D/C D/C	0 0 250	601 NER-NR 1351 200	0.0 0.0 0.0 0.0 2.7	14.6 14.6 14.6 47.5	-14.6 -14.6 -47.5 1.5
32 nport/E 33	Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	- D/C	0	601 NER-NR	0.0 0.0 0.0	14.6 14.6 47.5	-14.6 -14.6 -47.5
32 nport/E 33 34 35	HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG	D/C D/C D/C	0 0 250 0	601 NER-NR 1351 200 1513	0.0 0.0 0.0 2.7 0.0	14.6 14.6 14.5 1.2 27.0	-16.7 -14.6 -14.6 -47.5 1.5 -27.0
32 nport/E 33 34 35 36	Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA	D/C D/C D/C D/C	0 250 0	601 NER-NR 1351 200 1513 2820	0.0 0.0 0.0 0.0 2.7 0.0 0.0	14.6 14.6 14.6 47.5 1.2 27.0 54.0	-16.7 -14.6 -14.6 -47.5 1.5 -27.0 -54.0
32 mport/E 33 34 35 36 37 38 39	Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL	D/C D/C D/C D/C D/C S/C S/C	0 250 0 0 484 211 131	601 NER-NR 1351 200 1513 2820 0 0 152	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 0.0	14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0	-16.7 -14.6 -14.6 -47.5 1.5 -27.0 -54.0 -26.0 2.6 0.1
32 mport/E 33 34 35 36 37 38 39 40	HVDC Export of HVDC 765 KV	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 S/C	0 250 0 0 484 211 131 484	601 NER-NR 1351 200 1513 2820 0 0 152 0	0.0 0.0 0.0 2.7 0.0 0.0 0.0 2.6 0.1 22.1	14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -47.5 -27.0 -54.0 -26.0 -2.6 -0.1 -22.1
32 mport/E 33 34 35 36 37 38 39 40 41	HVDC Export of HVDC 765 KV	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	D/C D/C D/C D/C D/C D/C S/C S/C S/C D/C	0 250 0 0 484 211 131 484	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1	14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -47.5 -27.0 -54.0 -26.0 -2.6 0.1 -22.1
32 mport/F 33 34 35 36 37 38 39 40 41 42	HVDC Export of HVDC 765 KV	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 S/C S/C S/C S/C S/C S/C	0 250 0 0 484 211 484 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0	14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0 0.0 2	-16.7 -14.6 -14.6 -14.6 -47.5 -1.5 -27.0 -26.0 -26.0 -2.6 -2.1 -2 -1.0
32 apport/F 33 34 35 36 37 38 39 40 41 42 43	HVDC Export of HVDC 765 KV	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 S/C S/C S/C S/C S/C S/C S/C S/C	0 250 0 0 484 211 131 484 0 95	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0 1.0 0.1	14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -47.5 -1.5 -27.0 -26.0 -2.6 -0.1 -22.1 -2 -0.2
32 apport/F 33 34 35 36 37 38 39 40 41 42 43 44	HVDC Export of HVDC 765 KV 400 KV	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-KOTA BADOD-MORAK MEHGAON-AURAIYA	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	0 250 0 0 0 484 211 131 484 0 95 45	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0	0.0 0.0 0.0 2.7 0.0 0.0 0.0 2.6 0.1 22.1 0 0.0 1.0	16.7 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -47.5 -1.5 -27.0 -26.0 -2.6 0.1 -22.1 -2 1.0 -0.2
32 apport/F 33 34 35 36 37 38 39 40 41 42 43	HVDC Export of HVDC 765 KV 400 KV	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 S/C S/C S/C S/C S/C S/C S/C S/C	0 250 0 0 484 211 131 484 0 95	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0 1.0 0.1	14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -47.5 -1.5 -27.0 -26.0 -2.6 -0.1 -22.1 -2 -0.2
32 mport/E 33 34 35 36 37 38 39 40 41 42 43 44 45	HVDC Export of HVDC 765 KV 400 KV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-SHINMAL 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 250 0 0 484 484 211 131 484 0 95 45 74	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0 1.0 0.1 1.3	14.6 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -47.5 -1.5 -27.0 -54.0 -26.0 -2.6 -0.1 -22.1 -2 -0.2 -0.2 -0.3 -0.4
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of	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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 250 0 0 484 211 131 484 0 95 45 74 30	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 0 WR-NR	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0 1.0 0.1 1.3 0.4 0.0 30.2	16.7 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -47.5 -1.5 -27.0 -26.0 -2.6 -0.1 -22.1 -2 -0.2 -1.3 -0.4 -0.0 -128.4
32 apport/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC	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	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	0 250 0 0 0 484 211 131 484 0 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 0 WR-NR	0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0 1.0 0.1 1.3 0.4 0.0 30.2	16.7 14.6 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -47.5 1.5 -27.0 -54.0 2.6 0.1 22.1 -2 1.0 -0.2 1.3 0.4 0.0 -128.4
32 apport/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of	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	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	0 250 0 0 0 484 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.7 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -15.5 -27.0 -26.0 -2.6 -0.1 -22.1 -2 -1.0 -0.2 -1.3 -0.4 -0.0 -128.4 -22.3 -20.0
32 port/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC	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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 250 0 0 484 211 131 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 WR-NR 1000 0 1893	0.0 0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 1.3 0.4 0.0 30.2	16.7 14.6 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.0 0.0 158.6	-16.7 -14.6 -14.6 -14.6 -14.6 -47.5 -1.5 -27.0 -54.0 -26.0 -2.6 -0.1 -22.1 -0.2 -1.3 -0.4 -0.0 -128.4 -22.3 -0.0 -22.3 -22.3 -22.3 -22.3 -22.3 -22.3 -23.3 -34.0 -35.0 -
32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	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 WARDHA-NIZAMABAD	D/C D/C D/C D/C D/C S/C S/C	0 250 0 0 484 211 131 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 152 0 1448 0 42 0 0 WR-NR 1000 0 1893 2517	0.0 0.0 0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 2.6 0.1 22.1 0 1.0 0.1 1.3 0.4 0.0 30.2	16.7 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 158.6 22.3 0.0 22.6 40.4	-16.7 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -1.5 -27.0 -26.0 -2.6 -2.1 -2.1 -2 -1.0 -0.2 -1.3 -0.4 -128.4 -22.3 -0.0 -22.6 -40.4
32 port/F 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK	BISWANATH CHARIALL-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BANKROLI ZERDA-BHINMAL VCHAL-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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 250 0 0 484 211 131 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 WR-NR 1000 0 1893	0.0 0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 1.3 0.4 0.0 30.2	16.7 14.6 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.0 0.0 158.6	-16.7 -14.6 -14.6 -14.6 -14.6 -47.5 -1.5 -27.0 -54.0 -26.0 -2.6 -0.1 -22.1 -0.2 -1.3 -0.4 -0.0 -128.4 -22.3 -0.0 -22.3 -22.3 -22.3 -22.3 -22.3 -22.3 -23.3 -34.0 -35.0 -
32 32 32 33 34 35 37 38 39 40 41 42 43 44 45 46 47 47 48 49 50 51	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	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-RICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C D/C D/C D/C D/C S/C S/C	0 250 0 0 484 211 131 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 WR-NR 1000 0 1893 2517	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.7 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.4 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -47.5 -1.5 -27.0 -26.0 -2.6 -0.1 -22.1 -2 -1.0 -0.2 -1.3 -0.4 -128.4 -22.3 -20.0 -22.6 -40.4 -2.1
32 32 34 35 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV 400 KV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-SHINMAL 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	D/C D/C D/C D/C S/C S/C	0 250 0 0 0 484 211 131 484 0 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 1448 0 42 0 0 0 WR-NR 1000 0 1893 2517 1332 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.7 14.6 14.6 47.5 1.2 27.0 54.0 0.0 0.0 0.0 0.0 0.4 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -47.5 -47.5 -54.0 -26.0 -2.6 -0.1 -22.1 -2 -1.0 -0.2 -1.3 -0.4 -128.4 -22.3 -24.6 -40.4 -40.6 -40.6
32 port/E 33 34 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV 400 KV	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-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C D/C D/C S/C S/C	0 250 0 0 0 484 211 131 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 1552 0 1448 0 42 0 0 0 WR-NR 1000 0 1893 2517 132 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.7 14.6 14.6 14.6 47.5 1.2 27.0 54.0 26.0 0.0 0.0 0.0 0.0 158.6 22.3 0.0 22.6 40.4 0.4 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -15.5 -27.0 -26.0 -26.0 -1.0 -0.2 -1.3 -0.4 -0.0 -128.4 -22.3 -22.3 -22.6 -40.4 -40.4 -2.1 -0.0 -0.0
332 pport/F 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV 400 KV	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 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	0 250 0 0 0 484 211 131 484 0 95 45 74 30 0	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 152 0 1448 0 42 0 0 0 WR-NR 1000 0 1893 2517 132 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.1 1.0 0.1 1.3 0.4 0.0 30.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.7 14.6 14.6 14.6 47.5 1.2 27.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -1.5 -1.5 -27.0 -26.0 -2.6 -2.1 -2.1 -2.1 -0.2 -1.3 -0.4 -0.0 -128.4 -22.3 -22.3 -24 -22.3 -25 -25 -26 -40.4 -21.1 -21.0 -22.6 -40.4 -21.1 -21.5 -22.6 -40.4 -21.1 -21.5
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	HVDC Export of HVDC 765 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV 400 KV	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 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	0 250 0 0 484 211 131 484 0 95 45 74 30 0 0 0 0 0 0 95	ER-NER 601 NER-NR 1351 200 1513 2820 0 0 152 0 152 0 1448 0 42 0 0 0 WR-NR 1000 0 1893 2517 132 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.1 1.0 0.1 1.3 0.4 0.0 30.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16.7 14.6 14.6 14.6 47.5 1.2 27.0 0.0 0.0 0.0 0.0 0.0 0.0	-16.7 -14.6 -14.6 -14.6 -14.6 -14.6 -14.6 -1.5 -27.0 -2.6.0 -2.6 -0.1 -2.1 -0.2 -0.2 -1.3 -0.0 -128.4 -2.4 -2.4 -2.4 -2.4 -2.1 -2.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0 -0.0