

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 27th Nov 2019

To,

- 1. कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 2. कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. 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. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 26.11.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-नवम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 26th Nov 2019, is available at the NLDC website.

धन्यवाद,

Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting 27-Nov-19

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42015	48524	38032	18251	2383	149205
Peak Shortage (MW)	464	0	0	0	35	499
Energy Met (MU)	861	1150	893	340	40	3284
Hydro Gen (MU)	132	42	82	38	9	304
Wind Gen (MU)	27	51	62			140
Solar Gen (MU)*	19.13	19.3	75.24	1.90	0.04	116
Energy Shortage (MU)	10.4	0.0	0.0	0.0	0.7	11.1
Maximum Demand Met during the day	42961	52640	42067	18343	2383	153365
(MW) & time (from NLDC SCADA)	18:17	08:59	07:28	18:28	17:09	18:21

C.	Power	Supply	Position	in	States

Region	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	5202	0	100.3	41.6	-1.7	59	0.0
	Haryana	5671	0	114.2	94.8	0.3	146	0.0
	Rajasthan	11863	0	214.5	55.7	-2.9	243	0.0
	Delhi	3374	0	63.5	52.5	-0.6	137	0.0
NR	UP	14101	0	258.2	110.9	-2.8	798	0.0
	Uttarakhand	1735	0	34.1	22.6	-0.2	127	0.0
	HP	1566	0	28.4	20.3	0.1	129	0.0
	J&K	2186	547	44.2	37.5	-0.9	201	10.4
	Chandigarh	195	0	3.4	3.3	0.1	23	0.0
	Chhattisgarh	3444	0	72.8	16.7	-0.1	260	0.0
	Gujarat	15992	0	339.2	83.3	-2.2	469	0.0
	MP	13114	0	250.9	149.9	-2.7	419	0.0
WR	Maharashtra	21075	0	442.3	133.2	-2.4	518	0.0
WK	Goa	541	0	12.3	12.4	-0.7	23	0.0
	DD	324	0	7.3	6.7	0.6	44	0.0
	DNH	788	0	18.5	18.6	-0.1	42	0.0
	Essar steel	342	0	6.5	6.3	0.2	295	0.0
	Andhra Pradesh	8257	0	169.5	74.5	-0.3	566	0.0
	Telangana	8590	0	180.8	74.7	0.7	383	0.0
SR	Karnataka	10081	0	182.1	33.5	0.8	473	0.0
JI.	Kerala	3643	0	73.0	52.7	1.8	213	0.0
	Tamil Nadu	13256	0	280.8	167.7	2.0	824	0.0
	Pondy	354	0	7.0	7.4	-0.4	33	0.0
	Bihar	4029	0	68.3	69.0	-1.6	250	0.0
	DVC	3114	0	59.8	-28.9	-0.9	300	0.0
ER	Jharkhand	1247	0	24.7	17.8	-0.9	31	0.0
EN	Odisha	3797	0	74.4	7.8	-0.4	200	0.0
	West Bengal	6470	0	110.8	30.0	1.5	300	0.0
	Sikkim	97	0	1.6	1.6	0.0	20	0.0
	Arunachal Pradesh	119	3	2.1	1.9	0.0	36	0.0
	Assam	1389	27	22.7	17.5	0.3	147	0.6
	Manipur	159	1	2.4	2.6	-0.1	25	0.0
NER	Meghalaya	324	0	5.7	2.7	0.2	48	0.0
	Mizoram	104	3	1.7	0.5	0.9	22	0.0
	Nagaland	118	2	2.1	2.0	-0.1	23	0.0
	Tripura	257	9	3.4	1.7	0.0	85	0.0

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

1	Bhutan	Nepal	Bangladesh
Actual(MU)	8.8	-2.6	-14.0
Day peak (MW)	598.0	-204.0	-920.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.9	-191.8	98.8	-99.9	-1.1	-0.2
Actual(MU)	179.0	-184.7	108.8	-105.3	-0.6	-2.7
O/D/U/D(MU)	-14.8	7.1	10.1	-5.3	0.5	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6143	17916	6592	1950	584	33186
State Sector	12828	14806	9930	5720	11	43295
Total	18971	32722	16522	7670	596	76480

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	441	1134	425	423	12	2436
Lignite	20	16	37	0	0	73
Hydro	132	42	82	38	9	304
Nuclear	29	28	55	0	0	112
Gas, Naptha & Diesel	15	56	15	0	23	110
RES (Wind, Solar, Biomass & Others)	68	83	178	2	0	331
Total	706	1360	793	462	45	3365
Share of RES in total generation (%)	9.65	6.14	22.40	0.42	0.09	9.84
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.56	11.28	39.74	8.54	20.69	22.20

	H. A	ll India	Demand	Diversity	Factor
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11 111 India Demand Diversity Luctor						
Based on Regional Max Demands	1.033					
Based on State Max Demands	1.088					

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

 $[\]textbf{*Source:} \ RLDCs \ for \ solar \ connected \ to \ ISTS; \ SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

		IN	ΓER-REGI	ONAL EXCH	ANGES	Date of 1	Reporting :	27-Nov-19
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/E		ER (With NR)						
1	765kV	GAYA-VARANASI	D/C	0	900	0.0	13.5	-13.5
3	/05KV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	0	484 387	0.0	6.9	-6.9 -6.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	196	0.0	4.8	-4.8
6		PUSAULI-VARANASI	S/C	0	133	0.0	2.6	-2.6
7	_	PUSAULI -ALLAHABAD	S/C	0	140	0.0	2.1	-2.1
9	400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	D/C O/C	0	1091 857	0.0	14.3	-14.3 -14.9
10	400 K	BIHARSHARIFF-BALIA	D/C	0	371	0.0	5.5	-5.5
11	-	MOTIHARI-GORAKHPUR	D/C	3	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	390	0.0	4.5	-4.5
13	220 kV	PUSAULI-SAHUPURI	S/C	1	79	0.0	0.5	-0.5
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0 ED ND	0.0	0.0	0.0
Import/E	Export of	ER (With WR)			ER-NR	0.4	76.0	-75.6
_	Aport Ol	· · · · · · · · · · · · · · · · · · ·	0/2	025		11.5	0.0	***
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	935	0	11.6	0.0	11.6
19 20		NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	D/C D/C	325 0	336 244	0.0	0.8 3.5	-0.8 -3.5
21		JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	Q/C	163	187	0.0	0.2	-3.5
22	400 kV	RANCHI-SIPAT	D/C	141	105	0.2	0.0	0.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	134	0.0	1.9	-1.9
24	220 KV	BUDHIPADAR-KORBA	D/C	103	18	1.1	0.0	1.1
					ER-WR	12.9	6.3	6.5
	_	ER (With SR)	1					
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1892.0	0.0	34.0	-34.0
26 27	HVDC LINK	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	D/C D/C	0.0	578.0 1981.0	0.0	10.5 45.0	-10.5 -45.0
28	400 kV	TALCHER-I/C	D/C	248.0	849.0	0.0	8.2	-8.2
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
		l			ER-SR	0.0	89.5	-89.5
Import/E	Export of	ER (With NER)						
30	400 kV	BINAGURI-BONGAIGAON	D/C	291	155	4.1	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	329	165	4.4	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	68	54 ER-NER	0.7 9.2	0.0	9,2
Import/F	Export of	NER (With NR)			EK-NEK	9.2	0.0	9.2
33	HVDC	BISWANATH CHARIALI-AGRA	-	376	0	9.2	0.0	9.2
					NER-NR	9.2	0.0	9.2
Import/E	Export of	WR (With NR)						
34		CHAMPA-KURUKSHETRA	D/C	0	1485	0.0	24.5	-24.5
35	HVDC	V'CHAL B/B	D/C	206	0	6.1	0.0	6.1
36		APL -MHG	D/C	0	1271	0.0	28.9	-28.9
37	1	GWALIOR-AGRA PHAGI-GWALIOR	D/C	0	2055			-37.0
38 39	1		D/C	Δ.		0.0	37.0	
21			D/C D/C	743	1490	0.0	20.1	-20.1
40	765 kV	JABALPUR-ORAI	D/C D/C S/C	743 806				
40 41	765 kV		D/C	743	1490 971	0.0	20.1 29.7	-20.1 -29.7
	765 kV	JABALPUR-ORAI GWALIOR-ORAI	D/C S/C	743 806	1490 971 0	0.0 0.0 7.9	20.1 29.7 0.0	-20.1 -29.7 7.9
41	765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI	D/C S/C S/C	743 806 0	1490 971 0 1297	0.0 0.0 7.9 0.0	20.1 29.7 0.0 17.4	-20.1 -29.7 7.9 -17.4
41 42 43 44	-	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C S/C S/C D/C S/C S/C	743 806 0 168 153 256	1490 971 0 1297 903 143 255	0.0 0.0 7.9 0.0 0.0 0.9 1.2	20.1 29.7 0.0 17.4 5.1 0.4 0.9	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3
41 42 43 44 45	765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C S/C S/C D/C S/C S/C S/C S/C S/C	743 806 0 168 153 256 985	1490 971 0 1297 903 143 255 0	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2	20.1 29.7 0.0 17.4 5.1 0.4 0.9	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2
41 42 43 44 45 46	-	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	D/C S/C S/C D/C S/C S/C S/C S/C D/C S/C S/C S/C	743 806 0 168 153 256 985 207	1490 971 0 1297 903 143 255 0 180	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2
41 42 43 44 45 46 47	-	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	D/C S/C S/C D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C	743 806 0 168 153 256 985 207 36	1490 971 0 1297 903 143 255 0 180 40	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1
41 42 43 44 45 46 47 48	-	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60	1490 971 0 1297 903 143 255 0 180 40 51	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2
41 42 43 44 45 46 47 48 49	400 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113	1490 971 0 1297 903 143 255 0 180 40 51	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0 0.1 0.2	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2
41 42 43 44 45 46 47 48	400 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60	1490 971 0 1297 903 143 255 0 180 40 51	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2
41 42 43 44 45 46 47 48 49	400 kV - 220 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56	1490 971 0 1297 903 143 255 0 180 40 51 0	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0 0.1 0.2 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3
41 42 43 44 45 46 47 48 49 50	- 400 kV - 220 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56	1490 971 0 1297 903 143 255 0 180 40 51 0	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0 0.1 0.2 0.0 0.0 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0
41 42 43 44 45 46 47 48 49 50	400 kV 220 kV 132kV Export of HVDC	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56	1490 971 0 1297 903 143 255 0 180 40 51 0	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0 0.1 0.2 0.0 0.0 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0
41 42 43 44 45 46 47 48 49 50 51 Import/E 52	400 kV 220 kV 132kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0	1490 971 0 1297 903 143 255 0 180 40 51 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54	400 kV 220 kV 132kV Export of HVDC	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0	1490 971 0 1297 903 143 255 0 180 40 51 0 144 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0 0.1 0.2 0.0 0.0 0.0 164.4 19.7	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53	400 kV 220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728	1490 971 0 1297 903 143 255 0 180 40 51 0 144 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56	- 400 kV - 220 kV - 132kV - Export of - HVDC - LINK	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852	1490 971 0 1297 903 143 255 0 180 40 51 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57	220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852 1176 0	1490 971 0 1297 903 143 2255 0 180 40 51 0 144 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	400 kV 220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852 1176 0 0	1490 971 0 1297 903 143 2255 0 180 40 51 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0 0.0 0.0 1.4	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1 -19.7 0.0 13.7 0.0 13.7
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57	220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852 1176 0	1490 971 0 1297 903 143 2255 0 180 40 51 0 WR-NR	0.0 0.0 7.9 0.0 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3 0.0 0.0 13.7 0.0 0.0 1.6	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0 0.0 0.0	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1 -19.7 0.0 -17.6 -34.0 13.7 0.0 -1.4 1.6
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852 1176 0 0 0	1490 971 0 1297 903 143 2255 0 180 40 51 0 WR-NR 891 0 1996 22281 0 0 75 84 WR-SR	0.0 0.0 7.9 0.0 0.0 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0 0.0 0.0 1.4	-20.1 -29.7 7.9 -17.4 -5.1 0.5 0.3 22.2 1 0.1 0.2 1.4 0.3 0.0 -123.1 -19.7 0.0 -17.6 -34.0 13.7 0.0 -1.4
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58 59	220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852 1176 0 0	1490 971 0 1297 903 143 2255 0 180 40 51 0 WR-NR 891 0 1996 22281 0 0 75 84 WR-SR	0.0 0.0 7.9 0.0 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3 0.0 0.0 13.7 0.0 0.0 1.6	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0 0.0 0.0	-20.1 -29.7 -7.9 -17.4 -5.1 -0.5 -0.3 -12.2 -1 -0.1 -0.2 -1.4 -1.3 -19.7 -0.0 -17.6 -34.0 -13.7 -0.0 -1.4 -1.6 -57.5
41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	220 kV 132kV Export of HVDC LINK 765 kV	JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	743 806 0 168 153 256 985 207 36 60 113 56 0 0 728 852 1176 0 0 0	1490 971 0 1297 903 143 2255 0 180 40 51 0 WR-NR 891 0 1996 22281 0 0 75 84 WR-SR	0.0 0.0 7.9 0.0 0.0 0.0 0.9 1.2 22.2 1 0.2 0.4 1.4 0.4 0.0 41.3 0.0 0.0 13.7 0.0 0.0 1.6	20.1 29.7 0.0 17.4 5.1 0.4 0.9 0.0 0.1 0.2 0.0 0.0 0.0 164.4 19.7 0.0 19.7 34.0 0.0 0.0	-20.1 -29.7 -7.9 -17.4 -5.1 -0.5 -0.3 -22.2 -1 -0.1 -0.2 -1.4 -1.3.1 -19.7 -0.0 -17.6 -34.0 -13.7 -0.0 -1.4 -1.6