

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर 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: 04rd Nov 2018

Τо

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- 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
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Sub: Daily PSP Report for the date 03.11.2018.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-नवंबर-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 03rd November 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 4-Nov-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42143	51533	41276	19842	2385	157179
Peak Shortage (MW)	199	0	0	388	66	653
Energy Met (MU)	910	1225	941	396	43	3514
Hydro Gen (MU)	149	42	78	54	9	333
Wind Gen (MU)	8	16	46			69
Solar Gen (MU)*	18.79	17.8	52.28	0.65	0.04	90
Energy Shortage (MU)	8.0	0.0	0.0	1.2	0.4	9.5
Maximum Demand Met during the day	43535	56614	41402	20042	2611	159809
(MW) & time (from NLDC SCADA)	18:27	10:56	07:30	19:47	17:33	18:31

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	0.060	0.00	0.22	20.00	20.22	75.07	4.71

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	5334	0	116.6	20.4	-0.7	103	0.0
	Haryana	6276	100	119.0	68.1	1.2	343	1.5
	Rajasthan	11103	0	227.1	54.4	4.8	715	0.0
	Delhi	3450	0	68.5	45.9	-0.3	207	0.0
NR	UP	13858	0	289.3	109.8	2.4	540	0.0
	Uttarakhand	1793	0	34.7	24.3	-0.6	125	0.0
	HP	1320	54	25.8	15.2	0.2	107	0.5
	J&K	1915	479	26.1	34.7	-17.1	263	6.0
	Chandigarh	169	0	3.2	3.2	-0.1	22	0.0
	Chhattisgarh	3978	0	86.4	21.5	-1.0	204	0.0
	Gujarat	15837	0	346.7	128.9	8.5	930	0.0
	MP	12499	0	266.4	160.1	-1.0	506	0.0
	Maharashtra	23341	0	491.6	156.2	3.3	626	0.0
WR	Goa	468	0	10.6	9.6	0.5	103	0.0
	DD	329	0	7.3	6.5	0.8	101	0.0
	DNH	689	0	5.4	14.9	-9.5	95	0.0
	Essar steel	562	0	10.7	11.2	-0.5	294	0.0
	Andhra Pradesh	8340	0	185.2	66.8	0.1	725	0.0
	Telangana	9298	0	201.5	100.3	1.5	514	0.0
CD.	Karnataka	10542	0	205.2	49.9	-0.4	503	0.0
SR	Kerala	3407	0	69.8	46.2	0.4	198	0.0
	Tamil Nadu	12541	0	272.4	134.3	-0.4	553	0.0
	Pondy	331	0	6.8	6.8	0.0	62	0.0
	Bihar	4494	0	80.2	78.4	-0.5	402	0.0
	DVC	2956	0	62.8	-28.7	4.3	456	0.5
ER	Jharkhand	1079	-218	23.4	16.4	0.4	185	0.7
EK	Odisha	4438	0	90.7	32.1	5.4	385	0.0
	West Bengal	7473	0	137.2	36.7	3.8	445	0.0
	Sikkim	95	0	1.3	1.2	0.1	20	0.0
	Arunachal Pradesh	105	3	2.1	1.6	0.5	321	0.0
	Assam	1474	47	25.5	19.4	1.5	111	0.3
	Manipur	160	2	2.2	2.4	-0.2	31	0.0
NER	Meghalaya	310	0	5.2	2.5	0.0	85	0.0
	Mizoram	88	3	1.9	0.8	0.5	19	0.0
	Nagaland	117	2	2.1	1.5	0.3	39	0.0
	Tripura	235	3	3.7	2.1	0.3	35	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	8.2	-2.0	-18.2
Day peak (MW)	400.3	-136.0	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	100.7	-157.2	129.8	-75.3	1.7	-0.2
Actual(MU)	78.1	-157.8	130.9	-49.6	2.7	4.2
O/D/U/D(MU)	-22.6	-0.7	1.1	25.7	1.0	4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5859	12924	7762	600	331	27476
State Sector	9560	14505	6800	5325	50	36240
Total	15419	27429	14562	5925	381	63716

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	593	1257	533	422	5	2810
Hydro	149	42	78	54	9	333
Nuclear	24	29	41	0	0	94
Gas, Naptha & Diesel	47	52	24	0	29	152
RES (Wind, Solar, Biomass & Others)	42	34	142	1	0	219
Total	855	1414	819	477	44	3608

Share of RES in total generation (%)	4.96	2.43	17.31	0.14	0.09	6.08
Share of Non-fossil fuel (Hydro, Nuclear	25.25	7.42	21 00	11.52	21.40	17.91
and RES) in total generation (%)	25.25	7.42	31.88	11.55	21.48	17.91

H. Diversity Factor
All India Demand Diversity Factor 1.028
Diversity factor = Sum of regional maximum demands / All India maximum demand

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

/Export = (-ve for NET (MU							Date of	Reporting :	
The first book Color Col									Import=(+ve) /Export =(-ve) for NET (MU)
Part	Sl No	"	Line Details	Circuit		Max Export (MW)	Import (MU)	•	
1	mnort/F		ER (With NR)		()			(MU)	(MU)
1	•	T T		D/C	351	179	0.1	0.0	0.1
March Marc		765kV							
		 		+					
Section		HVDC			 				
		 							
STANS-BALIA		1		_					l
		1		_					
11 11 12 13 14 15 15 15 15 15 15 15	9	400 kV	PATNA-BALIA	Q/C	0	605	0.0	10.5	-10.5
	10	1	BIHARSHARIFF-BALIA	D/C	93	21	0.5	0.0	0.5
13	11]	MOTIHARI-GORAKHPUR	D/C	0	327	0.0	5.9	-5.9
Section Sect	12		BIHARSHARIFF-VARANASI	D/C	363	6	3.2	0.0	3.2
15	13	220 kV	PUSAULI-SAHUPURI	S/C	2	168	0.0	2.6	-2.6
		- □		_					
		132 kV							
Part		4		_					-
Section Sect	17	<u></u>	KARMANASA-CHANDAULI	S/C	0				
18	nport/F	Export of	ER (With WR)			ER-NR	10.1	46.6	-36.6
19	•	T [*]	I `	D/C	610	0	37.8	0.0	37 8
MARSIGIDA-RAGIABH		765 kV				· ·			
1906 1906		+							
		400 kV		_ `	1				
BICHIPADAR-KORBA D.C 222 0	22	220	BUDHIPADAR-RAIGARH	S/C		-			
Part	23	220 kV	BUDHIPADAR-KORBA	D/C	222	0	3.9	0.0	3.9
1906 1906 1907 1908					_	ER-WR	49.5	0.0	49.5
1		· -							1
1									
27				_					l
28									
Part		_		+					-
29	20	220 KV	BALIWILLA-OTTER-SILLARO	3/0	1.0				
30	nport/H	Export of	ER (With NER)						
ALIPERDUAR-BONGAIGAON DIC 15 457 0.0 6.3 6.5	29	400 kV		D/C	0	605	0.0	8.9	-9
SERNER 0,0 17.1 -17.1			ALIPURDUAR-BONGAIGAON	D/C					
Note	31	220 kV	ALIPURDUAR-SALAKATI	D/C	0				
Note		Francut of	NIED (W/:4L NID)			ER-NER	0.0	17.1	-17.1
NER-NR 0.0 14.6 -14.6				-	0	653	0.0	14.6	-14.6
Name				1		l .	0.0		
HyDC APL MHG D/C 240 0 6.0 0.0 6.0 6.0	nport/F	Export of	WR (With NR)						
APL-MHG		1		D/C					
36 765 kV 765 k		HVDC		_					-
PHAGI-GWALIOR		Ь—		_					
Table Tabl		4		+					-
GWALIOR-ORAI		-		_					l
SATNA-ORAI		- 105 KV		_					
Ali		J		_					l
42 400 kV ZERDA -BHINMAL S/C 436 0 6.1 0.0 6.1	39	1	DILLING CIGIL	3/C					
43 400 kV VCHAL -RIHAND S/C 485 0 11.2 0.0 11.2	39 40	<u> </u>	ZERDA-KANKROLI	S/C	464		10.0		l
RAPP-SHUJALPUR	39 40 41	-		+			6.1	0.0	l
BADOD-KOTA S/C 103 0 3.2 0.0 3.2	39 40 41 42	- 400 kV	ZERDA -BHINMAL	S/C	436	0			
BADOD-MORAK S/C 104 0	39 40 41 42 43	- 400 kV	ZERDA -BHINMAL V'CHAL -RIHAND	S/C S/C	436 485	0	11.2	0.0	
MEHGAON-AURAIYA S/C 142 0 2.1 0.0 2.1	39 40 41 42 43 44	- 400 kV	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	S/C S/C D/C	436 485 463	0 0 0	11.2	0.0	-4
132kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0.0 0.0 0.0 0.0	39 40 41 42 43 44 45	-	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	S/C S/C D/C S/C	436 485 463 103	0 0 0	11.2 0 3.2	0.0 4 0.0	-4 3.2
WR-NR 57.7 99.4 41.7	39 40 41 42 43 44 45 46	-	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	S/C S/C D/C S/C S/C	436 485 463 103 104	0 0 0 0	11.2 0 3.2 1.4	0.0 4 0.0 0.0	-4 3.2 1.4
Note	39 40 41 42 43 44 45 46 47 48	-	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	S/C S/C D/C S/C S/C S/C S/C S/C	436 485 463 103 104 142 104	0 0 0 0 0 0	11.2 0 3.2 1.4 2.1 1.4	0.0 4 0.0 0.0 0.0 0.0	-4 3.2 1.4 2.1 1.4
50 HVDC LINK BHADRAWATI B/B - 0 999 0.0 23.9 -23.9 51 LINK BARSUR-L.SILERU - 0 0 0.0 0.0 0.0 52 765 kV SOLAPUR-RAICHUR D/C 157 1821 0.0 25.0 -25.0 53 WARDHA-NIZAMABAD D/C 0 2327 0.0 40.5 -40.5 54 400 kV KOLHAPUR-KUDGI D/C 889 0 11.5 0.0 11.5 55 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 0.0 56 220 kV PONDA-AMBEWADI S/C 1 0 0.0 0.0 0.0 57 XELDEM-AMBEWADI S/C 0 68 1.3 0.0 1.3 TRANSNATIONAL EXCHANGE	39 40 41 42 43 44 45 46 47 48	220 kV	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	S/C S/C D/C S/C S/C S/C S/C S/C	436 485 463 103 104 142 104	0 0 0 0 0 0 0	11.2 0 3.2 1.4 2.1 1.4 0.0	0.0 4 0.0 0.0 0.0 0.0 0.0	-4 3.2 1.4 2.1 1.4 0.0
SI	39 40 41 42 43 44 45 46 47 48 49	220 kV	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	S/C S/C D/C S/C S/C S/C S/C S/C	436 485 463 103 104 142 104	0 0 0 0 0 0 0	11.2 0 3.2 1.4 2.1 1.4 0.0	0.0 4 0.0 0.0 0.0 0.0 0.0	-4 3.2 1.4 2.1 1.4 0.0
SOLAPUR-RAICHUR	39 40 41 42 43 44 45 46 47 48 49	220 kV 132kV Export of	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C	436 485 463 103 104 142 104 0	0 0 0 0 0 0 0 0 0 0 WR-NR	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7	0.0 4 0.0 0.0 0.0 0.0 0.0 0.0 99.4	-4 3.2 1.4 2.1 1.4 0.0 -41.7
TRANSNATIONAL EXCHANGE Total (1.5) Total (1.5) Transnational (1.5) Transnation	39 40 41 42 43 44 45 46 47 48 49	220 kV 132kV Export of HVDC	ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C -	436 485 463 103 104 142 104 0	0 0 0 0 0 0 0 0 0 0 WR-NR	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7	0.0 4 0.0 0.0 0.0 0.0 0.0 0.0 99.4	-4 3.2 1.4 2.1 1.4 0.0 -41.7
54 400 kV KOLHAPUR-KUDGI D/C 889 0 11.5 0.0 11.5 55 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 0.0 56 220 kV PONDA-AMBEWADI S/C 1 0 0.0 0.0 0.0 57 XELDEM-AMBEWADI S/C 0 68 1.3 0.0 1.3 TRANSNATIONAL EXCHANGE 58 BHUTAN BHUTAN BHUTAN BHUTAN	39 40 41 42 43 44 45 46 47 48 49 nport/F 50	220 kV 132kV Export of HVDC	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	S/C S/C D/C S/C S/C	436 485 463 103 104 142 104 0	0 0 0 0 0 0 0 0 0 WR-NR	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7	0.0 4 0.0 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7
S5 220 kV KOLHAPUR-CHIKODI D/C 0 0 0.0	39 40 41 42 43 44 45 46 47 48 49 50 51	220 kV 132kV Export of HVDC LINK	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	S/C S/C S/C D/C S/C S/C	436 485 463 103 104 142 104 0 0	0 0 0 0 0 0 0 0 0 WR-NR 999 0	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0	0.0 4 0.0 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0
Sc 1 0 0.0 0.0 0.0 0.0	39 40 41 42 43 44 45 46 47 48 49 nport/F 50 51 52 53	220 kV 132kV Export of HVDC LINK - 765 kV	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	S/C S/C S/C D/C S/C S/C	436 485 463 103 104 142 104 0 0 0 157 0	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0	0.0 4 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5
57 XELDEM-AMBEWADI S/C 0 68 1.3 0.0 1.3 WR-SR 12.8 89.4 -76.6 TRANSNATIONAL EXCHANGE 58 BHUTAN	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	220 kV 132kV Export of HVDC LINK - 765 kV	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	S/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C	436 485 463 103 104 142 104 0 0 0 157 0 889	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0 0.0 11.5	0.0 4 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5 11.5
WR-SR 12.8 89.4 -76.6 TRANSNATIONAL EXCHANGE 58 BHUTAN	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	220 kV 132kV Export of HVDC LINK 765 kV 400 kV	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	S/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	436 485 463 103 104 142 104 0 0 0 157 0 889 0	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327 0	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0 0.0 11.5 0.0	0.0 4 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5 0.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5 11.5 0.0
TRANSNATIONAL EXCHANGE 58 BHUTAN	39 40 41 42 43 44 45 46 47 48 49 50 50 51 52 53 54 55 56	220 kV 132kV Export of HVDC LINK 765 kV 400 kV	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 KOLHAPUR-CHIKODI PONDA-AMBEWADI	S/C	436 485 463 103 104 142 104 0 0 0 0 157 0 889 0 1	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327 0 0	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0 0.0 11.5 0.0 0.0	0.0 4 0.0 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5 0.0 0.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5 11.5 0.0 0.0
58 BHUTAN	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	220 kV 132kV Export of HVDC LINK 765 kV 400 kV	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 KOLHAPUR-CHIKODI PONDA-AMBEWADI	S/C	436 485 463 103 104 142 104 0 0 0 0 157 0 889 0 1	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327 0 0 0	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0 0.0 11.5 0.0 0.0 1.3	0.0 4 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5 0.0 0.0 0.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5 11.5 0.0 0.0 1.3
	39 40 41 42 43 44 45 46 47 48 49 49 50 51 52 53 54 55 56	220 kV 132kV Export of HVDC LINK 765 kV 400 kV	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	S/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	436 485 463 103 104 142 104 0 0 0 157 0 889 0 1	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327 0 0 0	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0 0.0 11.5 0.0 0.0 1.3	0.0 4 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5 0.0 0.0 0.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5 11.5 0.0 0.0 1.3
	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	220 kV 132kV Export of HVDC LINK 765 kV 400 kV	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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	S/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	436 485 463 103 104 142 104 0 0 0 157 0 889 0 1	0 0 0 0 0 0 0 0 0 WR-NR 999 0 1821 2327 0 0 0	11.2 0 3.2 1.4 2.1 1.4 0.0 57.7 0.0 0.0 0.0 0.0 11.5 0.0 0.0 1.3	0.0 4 0.0 0.0 0.0 0.0 0.0 99.4 23.9 0.0 25.0 40.5 0.0 0.0 0.0	-4 3.2 1.4 2.1 1.4 0.0 -41.7 -23.9 0.0 -25.0 -40.5 11.5 0.0 0.0 1.3