

National Load Despatch Centre पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Ref: POSOCO/NLDC/SO/Daily PSP Report Date: 28th Nov 2016

To,

- 1. महाप्रबंधक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता 700033 General Manager, 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. महाप्रबंधक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093 General Manager, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 General Manager, 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 27.11.2016.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27 नवंबर 2016 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 27th November 2016, is available at the NLDC website.

Thanking You.

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day Date of Reporting 28-Nov-16

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	37091	42938	34494	16240	2176	132939
Peak Shortage (MW)	879	0	0	0	56	935
Energy Met (MU)	788	989	816	304	37	2933
Hydro Gen(MU)	103	50	19	30	11	213
Wind Gen(MU)	2	20	12			33
Solar Gen (MU)*	2.76	10.58	15.10	0.05	0.02	29

B. Frequency Profile (%)

D. I requency I rome (70)						
Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
NEW GRID	0.047	0.00	0.27	8.92	9.19	73.94	16.88
SR GRID	0.047	0.00	0.27	8.92	9.19	73.94	16.88

Max. Demand Shortage during Drawal OD(+)/ Max Energy RegionRegion States Met during the maximum Demand Met (MU) Schedule (MU) UD(-) (MU) OD (MW) day (MW) (MW) Punjab 4892 0 94.6 48.4 1.3 256 Harvana 5527 0 102.9 80.6 -0.8235 9899 72.0 37.4 Rajasthan 148 198.5 1.0 249 218 2991 52.4 Delhi 0 0.6 NR UP 11749 0 246.1 84.9 -3.4 326 Uttarakhand 1554 0 29.4 15.4 -0.6 72 HP 0 159 1242 22.7 17.6 -0.2 1797 449 37.9 J&K 35.8 -4.3 0 Chandigarh 160 0 2.9 3.1 -0.2 15 2946 63.0 3.8 165 Chhattisgarh -2.6 Gujarat 12769 0 267.4 80.7 548 MP 10616 0 215.3 131.3 -3.4 238 Maharashtra 19015 0 406.8 115.5 0.5 470 WR Goa 375 0 7.6 -0.7 7.7 DD 256 0 5.8 6.0 -0.2 DNH 672 0 15.2 15.5 -0.3 55 Essar steel 368 0 7.5 7.2 0.3 163 Andhra Pradesh 6830 O 149.8 28.2 2.9 588 Telangana 6694 0 132.5 63.8 17 327 Karnataka 8770 0 190.9 77.9 3.6 2.9 843 SR 3160 52.8 Kerala 0 60.3 264 Tamil Nadu 277.1 137.4 549 12388 0 2.6 5.8 Pondy 6.3 Bihar 3337 0 60.8 59.0 100 DVC 2423 0 56.7 -34.8 150 Jharkhand 1103 0 22.9 14.9 140 ER Odisha 3778 0 67.8 22.0 3.0 210 West Bengal 6000 0 94.7 18.5 190 Sikkim 94 0 1.3 1.2 0.1 15 Arunachal Pradesh 117 1.9 1.7 0.2 48 Assam 1310 21.7 16.2 1.9 172 129 2.1 Manipur 2.4 -0.311 NER 3.7 271 4.7 -0.2 Meghalava 0 40 0.2 Mizoram 86 1.4 1.2 16 103 1.7 1.7 -0.1 Nagaland 207 3.1 0.9 -0.1 17 Tripura

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	9.6	-4.4	-11.8
Day peak (MW)	445.9	-282.2	-573.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.3	-173.2	90.4	-85.3	4.2	-3.5
Actual(MU)	160.0	-186.8	96.4	-77.1	4.3	-3.2
O/D/U/D(MU)	-0.3	-13.6	6.0	8.2	0.1	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5941	12316	2710	1660	132	22759
State Sector	13265	16959	7354	5744	110	43432
Total	19206	29275	10064	7404	242	66191

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

सचिव(ऊर्जा)/संयुक्त सचिव(पारेषण)/(ओ एम)/निदेशक(ओ एम)/मुख्य अभियंता-के॰वि॰प्रा॰(ग्रि॰प्र॰)/

अध्यक्ष एवं प्रबंध निदेशक (पावरिग्रेड)/मुख्य कार्यपालक अधिकारी(पोसोको)/सभी राज्यो के मुख्य सचिव/ऊर्जा सचिव

		INTER-R	EGIUNAI	L EACHA	NGES	Date of R	eporting :	28-Nov-1
								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)
_	xport of	ER (With NR)			201		40.0	1 44.0
2	7651/31	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	54	396 270	0.0	12.0	-12.0 -2.0
3	765KV	GAYA-BALIA	S/C	0	383	0.0	6.0	-6.0
4	HVDC		S/C	4	0	0.0	0.0	0.0
	LINK	PUSAULI B/B						
5 6		PUSAULI-SARNATH PUSAULI -ALLAHABAD	S/C S/C	157 232	68	3.0	0.0	0.0 3.0
7		MUZAFFARPUR-GORAKHPUR	D/C	3	498	0.0	9.0	-9.0
8	400 KV	PATNA-BALIA	Q/C	0	630	0.0	13.0	-13.0
9		BIHARSHARIFF-BALIA	D/C	0	136	0.0	5.0	-5.0
10		BARH-GORAKHPUR	D/C	0	419	0.0	9.0	-9.0
11		BIHARSHARIFF-VARANASI	D/C	32	0	0.0	2.0	-2.0
12	220 KV	PUSAULI-SAHUPURI	S/C	0	229	0.0	4.0	-4.0
13 14		SONE NAGAR-RIHAND	S/C S/C	35	0	0.0 1.0	0.0	0.0 1.0
15	132 KV	GARWAH-RIHAND KARMANASA-SAHUPURI	S/C S/C	0	0	0.0	0.0	0.0
16	1	KARMANASA-SAHUFUKI KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
-					ER-NR	4.0	62.0	-58.0
mport/F	xport of	ER (With WR)						
17	765 KV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	175	743	0.0	9.0	-9.0
18		NEW RANCHI-DHARAMJAIGARH	D/C	211	186	0.0	0.0	0.0
19		ROURKELA - RAIGARH (SEL LILO BYPASS)	S/C	141	12	2.0	0.0	2.0
20	400 *	JHARSUGUDA-RAIGARH	S/C	152	0	2.0	0.0	2.0
21	400 KV	IBEUL-RAIGARH	S/C	109	0	1.0	0.0	1.0
22		STERLITE-RAIGARH	D/C	51	140	0.0	1.0	-1.0
23		RANCHI-SIPAT	D/C	196	0	2.0	0.0	2.0
24	220 KV	BUDHIPADAR-RAIGARH	S/C	60	57	0.0	0.0	0.0
25		BUDHIPADAR-KORBA	D/C	163	ER-WR	3.0 10.0	0.0 10.0	3.0 0.0
mport/F	xport of	ER (With SR)			LK-WK	10.0	10.0	0.0
26	_	JEYPORE-GAZUWAKA B/B	D/C	0.0	330	0.0	17.0	-17.0
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2457	0.0	48.0	-48.0
28	765 KV	ANGUL-SRIKAKULAM	D/C	0.0	0	0.0	0.0	0.0
29	400 KV	TALCHER-I/C		480.0	123	7.0	0.0	7.0
30	220 KV	BALIMELA-UPPER-SILERRU	S/C	0	0	0.0	0.0	0.0
Immout/E	'mout of	ER (With NER)			ER-SR	7.0	65.0	-65.0
31	400 KV	BINAGURI-BONGAIGAON	Q/C	472	75	7.0	0.0	7
32	220 KV	ALIPURDUAR-SALAKATI	D/C	0	0	0.0	0.0	0
					ER-NER	7.0	0.0	7.0
Import/E	xport of l	NR (With NER)			U		J.	•
33	HVDC							
		BISWANATH CHARIALI-AGRA	-	0	0	0.0	12.4	12.4
			-	0	0 NR-NER	0.0	12.4 12.4	12.4 12.4
		WR (With NR)	-	-	NR-NER	0.0	12.4	12.4
34	HVDC	WR (With NR) V'CHAL B/B	D/C	500	NR-NER	8.0	0.0	8.0
34 35	HVDC HVDC	WR (With NR) V'CHAL B/B APL -MHG	D/C	500	0 2217	8.0 0.0	0.0 36.0	8.0 -36.0
34	HVDC HVDC 765 KV	WR (With NR) V'CHAL B/B	_	500 0 0	0 2217 2738	8.0 0.0 0.0	0.0 36.0 50.0	8.0 -36.0 -50.0
34 35 36	HVDC HVDC	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA	D/C D/C	500	0 2217	8.0 0.0	0.0 36.0	8.0 -36.0
34 35 36 37	HVDC HVDC 765 KV 765 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C D/C	500 0 0	0 2217 2738 1720	8.0 0.0 0.0 0.0	0.0 36.0 50.0 30.6	8.0 -36.0 -50.0 -30.6
34 35 36 37 38	HVDC HVDC 765 KV 765 KV 400 KV	WR (With NR) VCHAL B/B APL - MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND	D/C D/C D/C S/C	500 0 0 0 145 55 0	NR-NER 0 2217 2738 1720 61	8.0 0.0 0.0 0.0 0.0 1.0	0.0 36.0 50.0 30.6 0.0	8.0 -36.0 -50.0 -30.6 1.0 -2.0
34 35 36 37 38 39 40 41	HVDC HVDC 765 KV 765 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR -AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C S/C S/C S/C S/C D/C	500 0 0 0 145 55 0	NR-NER 0 2217 2738 1720 61 250 0 537	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 9	8.0 -36.0 -50.0 -30.6 1.0 -2.0 0.0
34 35 36 37 38 39 40 41 42	HVDC HVDC 765 KV 765 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR -AGRA PHAGI-GWALIOR ZERDA -KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C	500 0 0 0 145 55 0 0 72	NR-NER 0 2217 2738 1720 61 250 0 537 0	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0	0.0 36.0 50.0 30.6 0.0 2.0 0.0 9	8.0 -36.0 -50.0 -30.6 -1.0 -2.0 0.0 -9 1.0
34 35 36 37 38 39 40 41 42 43	HVDC HVDC 765 KV 765 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAPL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	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	500 0 0 0 145 55 0 0 72 30	0 2217 2738 1720 61 250 0 537 0	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0	8.0 -36.0 -50.0 -30.6 1.0 -2.0 0.0 -9 1.0
34 35 36 37 38 39 40 41 42 43	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL-AHG GPL-AHIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C	500 0 0 0 145 55 0 0 72 30 83	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0
34 35 36 37 38 39 40 41 42 43	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL - MHG GP-ALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	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	500 0 0 0 145 55 0 0 72 30	0 2217 2738 1720 61 250 0 537 0	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -50.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0
34 35 36 37 38 39 40 41 42 43 44 45	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL-AHG GPL-AHIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	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	500 0 0 0 145 55 0 0 72 30 83 31	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 0	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0
34 35 36 37 38 39 40 41 42 43 44 45	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 220 KV	WR (With NR) VCHAL B/B APL - MHG GP-ALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	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	500 0 0 0 145 55 0 0 72 30 83 31	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 0 0	0.0 8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 1.0 0.0 0	0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -50.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 0.0
34 35 36 37 38 39 40 41 42 43 44 45 46	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of HVDC	WR (With NR) 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	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	500 0 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 WR-NR	8.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0	12.4 0.0 36.0 50.0 30.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 1.0 0.0 1.0 -9 1.0 0.0 1.0 -117.0
34 35 36 37 38 39 40 41 42 43 44 45 46 mport/E	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV LXPORT of THVDC LINK	WR (With NR) VCHAL B/B APL-AHIG-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-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	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	500 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 0 0 WR-NR	8.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0 0.0 0.0 0.0 128.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 -117.0
34 35 36 37 38 39 40 41 42 43 44 45 46 (mport/F 48 49	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132 KV 220 KV 132 KV	WR (With NR) VCHAL B/B APL - MHG GP - ALIOR - AGRA PHAGI-GWALIOR ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	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	500 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 0 0 WR-NR	0.0 8.0 0.0 0.0 1.0 0.0 0.0 0.0	0.0 36.0 50.0 30.6 0.0 2.0 0.0 9 0.0 0.0 0.0 0.0 0.0 128.0 22.9 0.0 42.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 -117.0 -22.9 0.0 -42.0
34 35 36 37 38 39 40 41 42 43 44 45 46 (mport/E 48 49 50	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV LXPORT of THVDC LINK	WR (With NR) 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 KOLHAPUR-KUDGI	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	500 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 0 0 WR-NR 1000 0 2342 488	0.0 8.0 0.0 0.0 0.0 1.0 0.0 0.0	12.4 0.0 36.0 50.0 0.0 2.0 0.0 9 0.0 0.0 0.0 0.0 0.0 128.0 22.9 0.0 42.0 6.0	12.4 8.0 -36.0 -50.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 -117.0 -22.9 0.0 -42.0 -6.0
34 35 36 37 38 39 40 41 42 43 44 45 46 (Import/E 48 49 50 51	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK 765 KV 400 KV	WR (With NR) 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	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	500 0 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 0 0 WR-NR	0.0 8.0 0.0 0.0 0.0 1.0 0.0 0.0	12.4 0.0 36.0 50.0 30.6 0.0 2.0 0.0 0.0 0.0 0.0 0.0 128.0 22.9 0.0 42.0 6.0 6.0	12.4 8.0 -36.0 -50.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 -117.0 -22.9 0.0 -42.0 -6.0
34 35 36 37 38 40 41 42 43 44 45 46 (Import/E 48 49 50 51 52	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK 765 KV 400 KV	WR (With NR) VCHAL B/B APL-MG 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C D/C D/C S/C S/C S/C S/C 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 S/C S/C S/C S	500 0 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 WR-NR 1000 0 2342 488 281 0	0.0 8.0 0.0 0.0 1.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.4 0.0 36.0 50.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 -117.0 -22.9 0.0 -42.0 -6.0 -6.0 0.0
34 35 36 37 38 39 40 41 42 43 44 45 46 mport/E 48 49 50 51	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK 765 KV 400 KV	WR (With NR) 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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	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	500 0 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 WR-NR 1000 0 2342 488 281 0 0	0.0 8.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.4 0.0 36.0 50.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 1.0 0.0 1.0 0.0 1.10 0.0 -117.0 -22.9 0.0 -42.0 -6.0 -6.0 0.0 2.0
34 35 36 37 38 39 40 41 42 43 44 45 46 mport/E 48 49 50 51	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK 765 KV 400 KV	WR (With NR) 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C S/C S/C S/C S/C D/C 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	500 0 0 145 55 0 0 72 30 83 31 0 0 0 0 0 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 WR-NR 1000 0 2342 488 281 0 0 WR-SR	0.0 8.0 0.0 0.0 1.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.4 0.0 36.0 50.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 -9 1.0 0.0 1.0 0.0 -117.0 -22.9 0.0 -42.0 -6.0 -6.0 0.0
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK 765 KV 400 KV	WR (With NR) 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 KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C S/C S/C S/C S/C D/C 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	500 0 0 0 145 55 0 0 72 30 83 31 0	NR-NER 0 2217 2738 1720 61 250 0 537 0 30 0 WR-NR 1000 0 2342 488 281 0 0 WR-SR	0.0 8.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12.4 0.0 36.0 50.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0	12.4 8.0 -36.0 -30.6 1.0 -2.0 0.0 1.0 0.0 1.0 0.0 1.1 -22.9 0.0 -42.0 -6.0 0.0 2.0