

# **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: 04<sup>th</sup> Oct, 2015

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. Executive Director, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 कार्यपालक निदेशक, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
- 3. महाप्रबंधक, प. क्षे. भा. प्रे. के., एफ-3, 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. कार्यपालक निदेशक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगल्र 560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 03.10.2015.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स. - 5.5.1 के प्रावधान के अन्सार, दिनांक 03<sup>rd</sup> Oct 2015 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर निम्न लिंक 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 03<sup>rd</sup> Oct 2015, is available at the NLDC website.

http://posoco.in/attachments/article/94/04.10.15 NLDC PSP.pdf

Thanking You.

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

Report for previous day Date of Reporting 4-Oct-15

#### A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	44448	43736	34115	16997	2233	141529
Peak Shortage (MW)	2280	118	1000	260	260	3918
Energy Met (MU)	940	1013	728	387	41	3109
Hydro Gen(MU)	185	23	42	65	15	330
Wind Gen(MU)	15	13	30			58

B. Frequency Profile (%)

Region	<49.2	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
NEW GRID	0.00	0.00	0.01	10.78	10.79	76.33	12.88
SR GRID	0.00	0.00	0.01	10.78	10.79	76.33	12.88

C.Power Supply Position in States

		Max. Demand	Shortage during	Energy	Drawal	OD(+)/	Max
RegionRegion	States	Met during the day (MW)	maximum Demand (MW)	Met (MU)	Schedule (MU)	UD(-) (MU)	OD (MW
	Punjab	7587	0	159.7	69.9	0.3	161
	Harvana	7627	0	146.4	87.7	1.6	256
	Rajasthan	8711	0	195.2	59.0	-0.2	172
NR	Delhi	4047	0	82.9	72.4	1.5	220
	UP	12542	3485	273.5	124.2	3,9	606
	Uttarakhand	1781	0	16.8	15.4	1.4	245
	HP	1202	0	23.7	11.9	0.1	180
	J&K	2092	523	37.0	24.0	1.7	449
	Chandigarh	223	0	4.3	4.3	0.3	29
	Chhattisgarh	3748	96	90.0	36.0	1.6	406
	Gujarat	14061	5	316.1	73.4	-2.3	233
	MP	8361	0	187.8	108.2	-3.1	237
14/15	Maharashtra	17588	406	386.0	114.2	-2.0	482
WR	Goa	413	0	9.0	7.0	1.6	98
	DD	289	0	6.3	6.1	0.1	35
	DNH	690	0	15.2	15.0	0.2	46
	Essar steel	271	0	2.9	2.4	0.5	128
	Andhra Pradesh	5784	0	124.7	13.8	0.8	365
	Telangana	6237	0	141.3	98.7	-0.4	439
SR	Karnataka	6852	1000	144.2	26.5	3.2	515
Jit	Kerala	3193	0	59.8	42.5	1.3	253
	Tamil Nadu	11690	0	252.4	117.3	0.6	502
	Pondy	298	0	5.9	6.0	-0.1	35
	Bihar	3339	0	71.5	72.8	-3.6	0
	DVC	2482	0	58.5	-11.1	-1.1	121
ER	Jharkhand	962	60	23.3	15.2	0.8	35
LIN	Odisha	3353	200	73.1	20.4	1.0	152
	West Bengal	7330	0	160.0	64.2	-1.9	0
	Sikkim	86	0	1.1	0.8	0.3	42
	Arunachal Pradesh	107	4	1.6	1.6	0.1	53
	Assam	1275	203	26.8	17.3	3.4	182
	Manipur	136	5	2.2	2.1	0.1	30
NER	Meghalaya	321	2	4.3	1.3	-1.0	30
	Mizoram	72	4	1.1	1.1	-0.1	20
	Nagaland	103	5	1.5	1.2	0.2	70
	Tripura	228	23	3.8	1.3	0.6	80

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	29.1	-3.2	-10.9
Max MW		-155.3	-457.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	158.6	-185.8	50.3	-31.8	10.0	1.3
Actual(MU)	164.2	-199.5	52.9	-31.9	12.7	-1.6
O/D/U/D(MU)	5.6	-13.7	2.6	-0.1	2.7	-2.9

### F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5096	9983	2920	2395	927	21321
State Sector	6355	11279	3308	5549	110	26601
Total	11451	21262	6228	7944	1036	47922

सचिव(ऊर्जा)/ विशेष सचिव(ऊर्जा)/अतिरिक्त सचिव(ऊर्जा)/संयुक्त सचिव(पारेषण)/(ओ एम)/निदेशक(ओ एम)/मुख्य अभियंता-के०वि॰प्रा॰(ग्रि॰प्र॰)/ अध्यक्ष एवं प्रबंध निदेशक (पावरग्रिङ)/मुख्य कार्यपालक अधिकारी(पोसोको)/सभी राज्यो के मुख्य सचिव/ऊर्जा सचिव

		INTER-REC	HONAL	EACHA	NGES	Date of R	Reporting:	4-Oct-
Sl No	Voltage	Line Details	Circuit	Max Import	Max Export	Import=(· Import (MU)	+ve) /Export  Export	NET
nnort/I	Level Export of	ER (With NR)		(MW)	(MW)		(MU)	(MU)
1	Export or	GAYA-FATEHPUR	S/C	124	-167	0.0	0.0	0.0
	765KV	GAYA-BALIA	S/C	0	0	0.0	-1.0	-1.0
2	1	SASARAM-FATEHPUR	S/C	0	0	3.0	0.0	3.0
3	HVDC	PUSAULI B/B	S/C	0	0	0	-7	-7
4	LINK	PUSAULI-SARNATH	S/C	0	-202	0	0	0
5	1	PUSAULI-SAKNATH PUSAULI-ALLAHABAD	D/C	0	-143	0	0	0
6	1	MUZAFFARPUR-GORAKHPUR	D/C	167	-302	0	-2	-2
7	400 KV	PATNA-BALIA	Q/C	5	-108	0	-3	-3
8		BIHARSHARIFF-BALIA	D/C	207	-31	1	0	1
		BARH-GORAKHPUR	D/C	0	0	0	-5	-5
10	220 KV	PUSAULI-SAHUPURI	S/C	0	-213	0.0	-4.0	-4.0
11		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
12	132 KV	GARWAH-RIHAND	S/C	29 0	0	0.0	0.0	0.0
13 14	1	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	S/C S/C	0	0	0.0	0.0	0.0
14	I	KAKWAWASA-CHAWDAULI	5/C	U	ER-NR	5.0	-22.0	-17.0
	Export of	ER (With WR)	T = :	I				
15	765 KV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	-189	117	0.0	-1.0	-0.4
16	1	NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO	S/C	0	343	0.0	0.0	5.7
17	]	BYPASS)	S/C	0	0	4.0	0.0	4.0
18	400 KV	JHARSUGUDA-RAIGARH	S/C	0	0	5.0	0.0	5.0
19	400 K V	IBEUL-RAIGARH	S/C	0	0	5.0	0.0	5.0
20		STERLITE-RAIGARH	D/C	0	0	4.0	-5.9	-5.9
21		RANCHI-SIPAT	D/C	0	0	0.0	-0.1	-0.1
22	220 KV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C D/C	544 0	-175	9.0	-2.0	9.0
23		BUDHIPADAR-KURBA	D/C	U	ER-WR	27.0	-2.0 -9.0	20.3
nport/I	Export of	ER (With SR)			DR WR	27.0	-5.0	20.5
24	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	-743	0	-16.0	-16.0
25	LINK	TALCHER-KOLAR BIPOLE	D/C	0	-2442	0	-48.0	-48.0
26	400 KV	TALCHER-I/C		0	0	0	0	0
27	220 KV	BALIMELA-UPPER-SILERRU	S/C	0	0	0	0	0
		AND AND MED			ER-SR	0.0	-64.0	-64.0
4/1	C 4 4							
		ER (With NER)	0/C	0	240	0	Q	Q
27	400 KV	BINAGURI-BONGAIGAON	Q/C D/C	0	-240 -166	0	-8	-8 -3
			Q/C D/C	0	-240 -166 <b>ER-NER</b>	0 0	-8 -3 -11.0	-8 -3 -11.0
27 28	400 KV 220 KV	BINAGURI-BONGAIGAON			-166	0	-3	-3
27 28	400 KV 220 KV Export of	BINAGURI-BONGAIGAON BIRPARA-SALAKATI			-166	0	-3	-3
27 28 <b>nport/I</b> 29	400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA		0	-166 ER-NER	0.0	-3 -11.0	-3 -11.0
27 28 nport/I 29	400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)	D/C -	150	-166 ER-NER 0 NR-NER	0 0.0 0.1 0.1	-3 -11.0	-3 -11.0 0.1 0.1
27 28 nport/I 29 nport/I 30	400 KV 220 KV  Export of HVDC  Export of HVDC	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) VCHAL B/B	D/C - D/C	150	-166 ER-NER  0 NR-NER  0	0 0.0 0.1 0.1 4.0	-3 -11.0 0 0.0	-3 -11.0 0.1 0.1 4.5
27 28 mport/I 29 mport/I 30 31	Export of HVDC HVDC T65 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA	D/C D/C D/C	150 250 0	-166 ER-NER  0 NR-NER  0 -3078	0.0 0.0 0.1 0.1 4.0 0.0	-3 -11.0 0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3
27 28 mport/I 29 mport/I 30 31 32	Export of HVDC  Export of HVDC  T65 KV  HV0 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR	D/C  D/C  D/C  D/C  D/C	0 150 250 0	-166 ER-NER 0 NR-NER 0 -3078 -1284	0.0 0.0 0.1 0.1 4.0 0.0 0	-3 -11.0 0 0.0 -64.0 -25	-3 -11.0 0.1 0.1 4.5 -64.3 -25
27 28 <b>nport/l</b> 29 <b>nport/l</b> 30 31	Export of HVDC  Export of HVDC  Export of HVDC  765 KV  400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI	D/C D/C D/C	150 250 0	-166 ER-NER  0 NR-NER  0 -3078	0.0 0.0 0.1 0.1 4.0 0.0 0	-3 -11.0 0 0.0 -64.0 -25 0.0	-3 -11.0 0.1 0.1 4.5 -64.3
27 28 <b>nport/I</b> 29 <b>nport/I</b> 30 31 32 33	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI	D/C  D/C  D/C  D/C  D/C  S/C	0 150 250 0 0 69	-166 ER-NER 0 NR-NER 0 -3078 -1284 -94	0.0 0.0 0.1 0.1 4.0 0.0 0	-3 -11.0 0 0.0 -64.0 -25	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2
27 28 mport/I 29 mport/I 30 31 32 33 34	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL	D/C  D/C  D/C  D/C  S/C  S/C	0 150 250 0 0 69 111	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189	0.0 0.0 0.1 0.1 4.0 0.0 0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0
27 28 nport/I 29 nport/I 30 31 32 33 34 35	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND	D/C  D/C  D/C  D/C  D/C  S/C  S/C  S/C	250 0 0 69 111	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0	0 0.0 0.1 0.1 4.0 0.0 0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0
27 28 <b>nport/I</b> 29 30 31 32 33 34 35 36	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA	D/C   D/C   D/C   D/C   D/C   S/C   S/C	250 0 0 69 111 0 36	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46	0 0.0 0.1 0.1 4.0 0.0 0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2
27 28 29 29 30 31 32 33 34 35 36 37 38 39	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C  D/C  D/C  D/C  S/C  S/C  S/C  S/C	250 0 0 0 69 111 0 36 0 37	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 -30	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4
27 28 <b>nport/I</b> 29 <b>nport/I</b> 30 31 32 33 34 35 36 37 38	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C  D/C  D/C  D/C  D/C  S/C  S/C  S/C	250 0 0 69 111 0 36 0 37	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 -30 0 -30	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4
27 28 29 29 30 31 32 33 34 35 36 37 38 39 40	400 KV 220 KV 220 KV Export of HVDC 765 KV 400 KV 400 KV 220 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C  D/C  D/C  D/C  S/C  S/C  S/C  S/C	250 0 0 69 111 0 36 0 0 37	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 -30 0 WR-NR	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 0.0 -86.2
27 28 29 29 29 30 31 32 33 34 35 36 37 38 39 40	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 220 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C  D/C  D/C  D/C  S/C  S/C  S/C  S/C	250 0 0 0 69 111 0 36 0 37	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 -30 0 -30	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4
27 28 29 29 29 30 31 32 33 34 35 36 37 38 39 40	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 220 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C  D/C  D/C  D/C  S/C  S/C  S/C  S/C	250 0 0 69 111 0 36 0 0 37	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 -30 0 WR-NR	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 0.0 -86.2
27 28 mport/J 29 mport/J 30 31 32 33 34 35 36 37 38 39 40	400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 220 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  V'CHAL B/B GWALIOR-AGRA  PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL-MHG WR (With SR)	D/C  D/C  D/C  D/C  S/C  S/C  S/C  S/C	0 150 250 0 0 69 111 0 36 0 37 0	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 0 WR-NR -2520	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0  0 0.0  -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 -0.0 -	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 -0.4 -60.4
27 28 29 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 400 KV 400 KV 400 KV  132KV  HVDC  HVDC  HVDC	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL-MHG WR (With SR) BHADRAWATI B/B	D/C  D/C  D/C  D/C  D/C  S/C  S/C  S/C	0 150 250 0 0 69 111 0 36 0 0 37 0	-166 ER-NER  0 NR-NER  -3078 -1284 -94 -189 0 -46 0 0 -30 WR-NR  -2520	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 -60.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 0.0 -60.4 -60.4
27 28 29 29 30 31 32 33 34 35 36 37 38 40 41 41 41 42 43	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 765 KV 400 KV 400 KV 400 KV  132KV  HVDC  HVDC  HVDC  HVDC  LINK	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	D/C  D/C  D/C  D/C  D/C  S/C  S/C  S/C	0 150 250 0 0 69 111 0 36 0 0 0	-166 ER-NER  0 NR-NER  -3078 -1284 -94 -189 0 -46 0 0 -30 WR-NR  -2520	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0.1 0.1 4.5 -64.3 -2.5 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 0.0 -64.3 -64.3 -7.5 -64.3 -7.5 -64.3 -7.5 -64.3 -7.5 -7.0 -7
27 28 29 29 29 29 29 29 30 31 32 33 34 35 36 37 38 39 40 41 41 41 42 43 44	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 765 KV 400 KV 400 KV 400 KV  132KV  HVDC  HVDC  HVDC  HVDC  LINK	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR)  VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	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     D/C     D/C	0 250 0 0 69 111 0 36 0 37 0 0	-166 ER-NER  0 NR-NER  -3078 -1284 -94 -189 0 -46 0 0 -30 WR-NR -2520  -1000 0 -1056	0 0.0 0.1 0.1 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-3 -11.0 0 0.0 -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 0.0 -60.0 -60.0	-3 -11.0 0.1 0.1 4.5 -64.3 -2.5 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 0.0 -86.2 -60.4
27 28 29 29 29 29 29 30 31 32 33 34 35 36 37 38 39 40 41 41 41 42 43 44 45	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 400 KV 400 KV  400 KV  132KV  HVDC  HVDC  HVDC  HVDC  LINK  765 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI	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     D/C     D/C     D/C     D/C     D/C     D/C	0 150 250 0 0 69 111 0 36 0 37 0 0 0	-166 ER-NER  0 NR-NER  -3078 -1284 -94 -189 0 -46 0 0 -30 WR-NR -2520  -1000 0 -1056 -202	0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.	-3 -11.0  0 0.0  -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 -90.0 -24.0 0.0 -9.0 -4.0	-3 -11.0 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.2 0.0 0.4 -0.4 0.0 -86.2 -60.4 -23.6 0.0 -9.4 -4.3
27 28 29 29 29 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 400 KV 400 KV  400 KV  132KV  HVDC  HVDC  HVDC  HVDC  LINK  765 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C     D/C     D/C     D/C     D/C     D/C     S/C     S/C	0 150 250 0 0 69 111 0 36 0 37 0 0 0 0	-166 ER-NER  0 NR-NER  0 -3078 -1284 -94 -189 0 -46 0 0 -30 0 WR-NR -2520 -1000 0 -1056 -202 0	0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.	-3 -11.0  0 0.0  -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 -90.0 -60.0  -24.0 0.0 -9.0 -4.0 0.0	-3 -11.0 0.1 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.4 -0.4 0.0 -86.2 -60.4 -23.6 0.0 -9.4 -4.3 0.0
27 28 **Port/I 29  **Poport/I 30  31  32  33  34  35  36  37  38  39  40  41  **Poport/I 42  43  44  45  46  47	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 400 KV 400 KV  400 KV  132KV  HVDC  HVDC  HVDC  HVDC  LINK  765 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C     D/C     D/C     D/C     D/C     D/C     S/C     S/C	0 150 250 0 0 69 111 0 36 0 37 0 0 0 0 0 0 0 0 0 0 0 0 0	-166 ER-NER  0 NR-NER  -3078 -1284 -94 -189 0 -46 0 0 -30 WR-NR -2520 -1000 0 -1056 -202 0 0 WR-SR	0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.	-3 -11.0  0 0.0  -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 -60.0 -24.0 0.0 -90.0 -4.0 0.0 0.0	-3 -11.0 0.1 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.4 -0.4 0.0 -86.2 -60.4 -23.6 0.0 -9.4 -4.3 0.0 1.5
27 28 29 29 29 29 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46	400 KV 220 KV  Export of HVDC  Export of HVDC  765 KV 400 KV 400 KV  400 KV  132KV  HVDC  HVDC  HVDC  HVDC  LINK  765 KV	BINAGURI-BONGAIGAON BIRPARA-SALAKATI  NR (With NER) BISWANATH CHARIALI-AGRA  WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR  APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C     D/C     D/C     D/C     D/C     D/C     S/C     S/C	0 150 250 0 0 69 111 0 36 0 37 0 0 0 0 0 0 0 0 0 0 0 0 0	-166 ER-NER  0 NR-NER  -3078 -1284 -94 -189 0 -46 0 0 -30 WR-NR -2520 -1000 0 -1056 -202 0 0 WR-SR	0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.	-3 -11.0  0 0.0  -64.0 -25 0.0 -1.0 0.0 0.0 0.0 0.0 0.0 -60.0 -24.0 0.0 -90.0 -4.0 0.0 0.0	-3 -11.0 0.1 0.1 0.1 4.5 -64.3 -25 -0.2 -1.0 0.0 -0.4 -0.4 0.0 -86.2 -60.4 -23.6 0.0 -9.4 -4.3 0.0 1.5