

## **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: 31<sup>th</sup> Aug, 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. 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., 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 30.08.2015.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.- 5.5.1 के प्रावधान के अनुसार, दिनांक  $30^{th}$  Aug~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 30<sup>th</sup> Aug 2015, is available at the NLDC website.

http://posoco.in/attachments/article/94/31.08.15 NLDC PSP.pdf

Thanking You.

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

Report for previous day Date of Reporting 31-Aug-15

## A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	47157	40289	31636	17101	2116	138299
Peak Shortage (MW)	2006	214	1000	310	235	3765
Energy Met (MU)	1090	925	764	368	39	3185
Hydro Gen(MU)	316	41	64	85	29	534
Wind Gen(MU)	21	39	77			138

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	0.10	1.77	25.78	27.65	66.46	5.89
SR GRID	0.00	0.10	1.77	25.78	27.65	66.46	5.89

C.Power Supply Position in States

		Max. Demand	Shortage during	Energy	Drawal	OD(+)/	Max
RegionRegion	States	Met during the	maximum Demand	Met (MU)	Schedule (MU)	UD(-) (MU)	OD (MW)
		day (MW)	(MW)	Met (Me)	Benedule (MC)	CD(-) (MC)	OD (MW)
	Punjab	9751	0	218.5	118.6	-1.2	90
	Haryana	8393	0	173.2	123.1	-1.4	118
	Rajasthan	9909	0	219.1	77.5	0.2	376
NR	Delhi	4986	97	100.2	86.4	-0.2	150
	UP	12074	4510	280.3	134.0	-2.5	260
	Uttarakhand	1723	40	34.3	12.2	1.7	254
	HP	1212	0	24.9	1.1	0.8	127
	J&K	1700	425	34.3	18.8	0.7	408
	Chandigarh	280	0	5.4	5.7	-0.8	14
	Chhattisgarh	3240	0	72.1	24.8	-2.8	107
	Gujarat	13640	0	296.5	75.8	-1.5	405
	MP	6812	0	149.3	80.5	-2.0	303
WR	Maharashtra	17383	23	373.8	111.2	-0.7	458
VVIN	Goa	363	0	7.0	6.4	0.0	65
	DD	270	0	5.9	5.7	0.1	53
	DNH	666	0	15.4	15.2	0.2	78
	Essar steel	292	0	4.6	4.3	0.2	148
	Andhra Pradesh	5636	0	138.0	17.8	5.4	458
	Telangana	5683	0	134.8	92.5	-1.7	128
SR	Karnataka	7095	1000	153.7	18.2	3.0	427
JI.	Kerala	3152	0	57.3	35.8	1.8	255
	Tamil Nadu	12212	0	273.8	98.0	-1.2	520
	Pondy	299	0	6.4	6.5	-0.1	25
	Bihar	3052	150	63.9	60.7	1.4	100
	DVC	2507	0	59.5	-10.6	-2.5	0
ER	Jharkhand	1042	0	21.6	15.3	-1.1	0
2.11	Odisha	3542	150	77.9	21.2	2.2	300
	West Bengal	6912	10	143.8	52.7	2.5	250
	Sikkim	75	0	1.1	1.0	0.2	0
	Arunachal Pradesh	92	1	1.6	1.9	-0.3	6
	Assam	1213	188	24.6	16.7	1.5	206
	Manipur	138	2	2.2	2.3	-0.2	23
NER	Meghalaya	284	1	4.4	-0.6	-0.8	79
	Mizoram	76	2	1.2	1.3	-0.1	18
	Nagaland	113	2	1.4	1.7	-0.4	14
	Tripura	233	2	3.1	1.1	0.0	56

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	34.6	-3.5	-10.9
Max MW		-170.0	-464.0

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

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	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.3	-148.0	49.5	-56.1	-8.0	0.8
Actual(MU)	174.3	-166.9	48.5	-46.5	-10.3	-0.9
O/D/U/D(MU)	11.0	-18 9	-1.0	9.5	-23	-17

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4007	13176	3180	3270	364	23997
State Sector	5980	12216	6068	6319	110	30693
Total	9987	25392	9248	9589	473	54690

सचिव(ऊर्जा)/ विशेष सचिव(ऊर्जा)/अतिरिक्त सचिव(ऊर्जा)/संयुक्त सचिव(पारेषण)/(ओ एम)/निदेशक(ओ एम)/मुख्य अभियंता-कै०वि॰प्रा॰(ग्रि॰प्र॰)/ अध्यक्ष एवं प्रबंध निदेशक (पावरिग्रङ)/मुख्य कार्यपालक अधिकारी(पोसोको)/सभी राज्यो के मुख्य सचिव/ऊर्जो सचिव

L   mport/Expo:	65KV HVDC LINK  00 KV  20 KV  32 KV  oort of H 65 KV  20 KV	Line Details  ER (With NR)  GAYA-FATEHPUR  GAYA-BALIA  SASARAM-FATEHPUR  PUSAULI B/B  PUSAULI-SARNATH  PUSAULI-ALLAHABAD  MUZAFFARPUR-GORAKHPUR  PATNA-BALIA  BIHARSHARIFF-BALIA  BARH-GORAKHPUR  PUSAULI-SAHUPURI  SONE NAGAR-RIHAND  GARWAH-RIHAND  KARMANASA-SAHUPURI  ER (With WR)  JHARSUGUDA-DHARAMJAIGARH  ROURKELA - RAIGARH  BEUL-RAIGARH  STERLITE-RAIGARH  STERLITE-RAIGARH  RANCHI-SIPAT  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  ER (With SR)  JEYPORE-GAZUWAKA B/B	S/C   S/C   S/C   D/C   D/C   S/C   D/C   D/C   S/C   D/C   D/C   S/C   D/C   D/C	Max Import (MW)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Max Export (MW)  -351 0 0 0 -282 -179 -712 -208 -299 0 -232 -1 0 -1 0 ER-NR  147 243 0 0 0 0 0 0 -125 ER-WR	0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0 0 0	+ve) /Export (MU)  -6.0 -2.1 -2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.0 -53.2  -0.9 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	1 =(-ve)  NET (MU)  -6.0 -2.1 -2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 -52.3  -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1 -0.5
L   mport/Expo:	Level loort of F 65KV HVDC LINK  00 KV 20 KV 32 KV  00 KV  20 KV  20 KV	CR (With NR)  GAYA-FATEHPUR  GAYA-BALIA  SASARAM-FATEHPUR  PUSAULI B/B  PUSAULI-SARNATH  PUSAULI-ALLAHABAD  MUZAFFARPUR-GORAKHPUR  PATNA-BALIA  BIHARSHARIFF-BALIA  BARH-GORAKHPUR  PUSAULI-SAHUPURI  SONE NAGAR-RIHAND  GARWAH-RIHAND  KARMANASA-SAHUPURI  KARMANASA-CHANDAULI  CR (With WR)  JHARSUGUDA-DHARAMJAIGARH  ROURKELA - RAIGARH ( SEL LILO  BYPASS)  JHARSUGUDA-RAIGARH  BEUL-RAIGARH  STERLITE-RAIGARH  RANCHI-SIPAT  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-KORBA	S/C   S/C   S/C   S/C   S/C   D/C   D/C   S/C   S/C	Import (MW)	Export (MW)  -351 0 0 0 -282 -179 -712 -208 -299 0 -232 -1 0 -1 0 ER-NR  147 243 0 0 0 0 0 0 -125	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(MU)  -6.0  -2.1  -2.8  -9  0  0  -13  -7  -4  -5  -3.7  0.0  0.0  0.0  -53.2  -0.9  0.0  0.0  0.0  -5.9  -0.1  0.0  -0.6	(MU)  -6.0  -2.1  -2.8  -9  0  0  -13  -7  -4  -5  -3.7  0.0  0.9  0.0  -52.3  -0.6  3.2  1.3  0.8  0.8  -5.9  -0.1  5.1
1   765   2   1   1   1   1   1   1   1   1   1	65KV HVDC LINK  00 KV  20 KV  32 KV  oort of H 65 KV  20 KV	GAYA-FATEHPUR  GAYA-BALIA  SASARAM-FATEHPUR  PUSAULI B/B  PUSAULI-SARNATH  PUSAULI-ALLAHABAD  MUZAFFARPUR-GORAKHPUR  PATNA-BALIA  BIHARSHARIFF-BALIA  BARH-GORAKHPUR  PUSAULI-SAHUPURI  SONE NAGAR-RIHAND  GARWAH-RIHAND  KARMANASA-SAHUPURI  KARMANASA-CHANDAULI  ER (With WR)  JHARSUGUDA-DHARAMJAIGARH  ROURKELA - RAIGARH ( SEL LILO  BYPASS)  JHARSUGUDA-RAIGARH  BEUL-RAIGARH  STERLITE-RAIGARH  RANCHI-SIPAT  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-KORBA	S/C   S/C   S/C   S/C   S/C   D/C   D/C   S/C   S/C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 -282 -179 -712 -208 -299 0 -232 -1 0 ER-NR 147 243 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	-2.1 -2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-2.1 -2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
765 2 3 HY 11 4 5 6 400 7 8 10 220 11 12 132 13 14  mport/Expo 20 21 22 23 22( 23  mport/Expo 24 HV 25 LI 26 400 27 220  mport/Expo	HVDC LINK  000 KV  20 KV  32 KV  000 KV  20 KV  000 KV	GAYA-BALIA SASARAM-FATEHPUR PUSAULI B/B PUSAULI-SARNATH PUSAULI-ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C   S/C   S/C   S/C   S/C   D/C   D/C   S/C   S/C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 -282 -179 -712 -208 -299 0 -232 -1 0 ER-NR 147 243 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	-2.1 -2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-2.1 -2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
2	HVDC LINK  00 KV  20 KV  32 KV  00 KV  20 KV  00 KV	SASARAM-FATEHPUR PUSAULI B/B PUSAULI -SARNATH PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-ROURKBA	S/C   S/C   S/C   D/C   D/C   S/C   S/C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 -282 -179 -712 -208 -299 0 -232 -1 0 -1 0 ER-NR  147 243 0 0 0 0 0 -125	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-2.8 -9 0 0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
3 HV LI 4 5 6 400 7 8 10 220 11 13 14 17 18 19 20 21 22 23 220 24 HV 25 LI 26 400 27 22 20 mport/Exp	20 KV 32 KV oort of H 65 KV 20 KV	PUSAULI B/B  PUSAULI-SARNATH  PUSAULI-ALLAHABAD  MUZAFFARPUR-GORAKHPUR  PATNA-BALIA  BIHARSHARIFF-BALIA  BARH-GORAKHPUR  PUSAULI-SAHUPURI  SONE NAGAR-RIHAND  GARWAH-RIHAND  KARMANASA-SAHUPURI  KARMANASA-CHANDAULI  ER (With WR)  JHARSUGUDA-DHARAMJAIGARH S/C  NEW RANCHI-DHARAMJAIGARH  ROURKELA - RAIGARH ( SEL LILO  BYPASS)  JHARSUGUDA-RAIGARH  BIEUL-RAIGARH  STERLITE-RAIGARH  RANCHI-SIPAT  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-KORBA	S/C   S/C   D/C   D/C   D/C   S/C   S/C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -282 -179 -712 -208 -299 0 -232 -1 0 -1 0 ER-NR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-9 0 0 -13 -7 -4 -5 -3.7 0.0 0.0 0.0 -53.2  -0.9 0.0 0.0 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-9 0 0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
3   11   4   5   6   400   7   8   10   220   11   12   13   14   15   16   17   18   19   20   21   22   23   220   24   HV   25   LI   26   400   27   220   20   27   220   20   27   220   20	20 KV   20 KV   32 KV   65 KV   600 KV   20 KV   20 KV   20 KV   600rt of H	PUSAULI-SARNATH PUSAULI -ALLAHABAD  MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH ROURKELA - RAIGARH (SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH	S/C   D/C   D/C   S/C   S/C	0 0 0 0 0 0 0 0 0 48 0 0 0 -264 -41 0 0 0	-282 -179 -712 -208 -299 0 -232 -1 0 -1 0 ER-NR  147 243 0 0 0 0 0 -125	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 -13 -7 -4 -5 -3.7 0.0 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0	0 0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 -0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1
5   6   7   8   10   220   11   12   13   14   15   16   17   18   19   20   21   22   23   220   24   HV   25   L1   26   400   27   220   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   220   27   27	20 KV   20 KV   32 KV   20 KV	PUSAULI -ALLAHABAD  MUZAFFARPUR-GORAKHPUR  PATNA-BALIA  BIHARSHARIFF-BALIA  BARH-GORAKHPUR  PUSAULI-SAHUPURI  SONE NAGAR-RIHAND  GARWAH-RIHAND  KARMANASA-SAHUPURI  KARMANASA-CHANDAULI  ER (With WR)  JHARSUGUDA-DHARAMJAIGARH S/C  NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO  BYPASS)  JHARSUGUDA-RAIGARH  BEUL-RAIGARH  STERLITE-RAIGARH  RANCHI-SIPAT  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-RAIGARH  BUDHIPADAR-KORBA	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 0 0 0 0 0 0 0 48 0 0 0	-179 -712 -208 -299 0 -232 -1 0 -1 0 ER-NR 147 243 0 0 0 0 0 -125	0 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0 -13 -7 -4 -5 -3.7 0.0 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	0 -13 -7 -4 -5 -3.7 0.0 0.9 0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
10   220   11   12   132   14     14     15   16     17     18   19   20   21   22   23   220     24   HV   25   LI   26   400   27   220     220   27   220     220     24   HV   25   LI   26   400   27   220	20 KV   20 KV   32 KV   65 KV   600 KV   20 KV   20 KV   600 t of H	MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	D/C Q/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 0 0 0 0 0 48 0 0 0	-712 -208 -299 0 -232 -1 0 -1 0 ER-NR 147 243 0 0 0 0 0 -125	0 0 0 0 0.0 0.0 0.0 0.9 0.0 0.0 0.0 0.0	-13 -7 -4 -5 -3.7 0.0 0.0 0.0 0.0 -53.2  -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-13 -7 -4 -5 -3.7 0.0 0.9 0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
7 8 10 220 11 13 14 13 14 15 765 16 765 17 18 19 20 21 22 23 220 24 17 25 L1 26 400 27 220 27 220 27 220 27 220 220 27 27 27 27 27 27 27 27 27 27 27 27 27	20 KV   32 KV   32 KV   65 KV   600 KV   20 KV   600rt of H	PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH	Q/C   D/C   S/C   S/C	0 0 0 0 0 48 0 0 0 -264 -41 0 0 0 0	-208 -299 0 -232 -1 0 -1 0 ER-NR 147 243 0 0 0 0 0 -125	0 0 0 0.0 0.0 0.9 0.0 0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1	-7 -4 -5 -3.7 0.0 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -53.2	-7 -4 -5 -3.7 0.0 0.9 0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
10   220   13   14   132   133   14   14   15   16   17   18   19   20   21   22   23   220   22   23   220   24   HV   25   L1   26   400   27   220   220   27   220   27   220   220   27   220	20 KV 32 KV 32 KV 00 t of H 65 KV 20 KV	BIHARSHARIFF-BALIA BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 48 0 0 0 -264 -41 0 0 0 0	-299 0 -232 -1 0 -1 0 ER-NR 147 243 0 0 0 0 0 -125	0 0 0.0 0.0 0.9 0.0 0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1	-4 -5 -3.7 0.0 0.0 0.0 0.0 -53.2  -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-4 -5 -3.7 0.0 0.9 0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
10 220 11 12 132 13 14 132 15 765 16 765 17 18 400 21 22 23 220 24 HV 25 LI 26 400 27 220 mport/Expo	20 KV 32 KV 32 KV 65 KV 60 KV 20 KV	BARH-GORAKHPUR PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 48 0 0 0 -264 -41 0 0 0 0 1 1 349	0 -232 -1 0 -1 0 ER-NR 147 243 0 0 0 0 0	0 0.0 0.0 0.9 0.0 0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1	-5 -3.7 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-5 -3.7 0.0 0.9 0.0 -0.0 -52.3 -0.6 3.2 1.3 0.8 -5.9 -0.1
11	20 KV 32 KV 32 KV 65 KV 60 KV 20 KV	PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C   S/C	0 0 48 0 0 0 -264 -41 0 0 0 0 1 1 349	-232 -1 0 -1 0 ER-NR  147 243 0 0 0 0 0 -125	0.0 0.0 0.9 0.0 0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1 0.1	-3.7 0.0 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-3.7 0.0 0.9 0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
11	32 KV  port of H 65 KV  00 KV  20 KV	SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI  ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA  ER (With SR)	S/C   S/C	-264 -41 0 0 0 0 0 0 1 349	-1 0	0.0 0.9 0.0 0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1 0.1	0.0 0.0 0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	0.0 0.9 0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
13   132	oort of H	KARMANASA-SAHUPURI KARMANASA-CHANDAULI ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C   D/C   S/C   S/C	0 0 0 -264 -41 0 0 0 0 0 1 349	-1 0 ER-NR 147 243 0 0 0 0 0 0	0.0 0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1 0.1	0.0 0.0 -53.2 -0.9 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	0.0 0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
13   14	oort of H	KARMANASA-CHANDAULI ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	D/C   S/C   S/C   S/C   S/C   D/C   D/C   D/C   S/C   S/C   D/C   D/C   S/C   S/C	0 -264 -41 0 0 0 0 0 1 349	0 ER-NR 147 243 0 0 0 0 0 0 0	0.0 0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1 0.1	0.0 -53.2 -0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	0.0 -52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
mport/Expo 15 765 16 17 18 400 20 21 22 23 220 23 220 24 HV 25 LI 26 400 27 220 mport/Expo	oort of H 65 KV 000 KV 20 KV	ER (With WR)  JHARSUGUDA-DHARAMJAIGARH S/C  NEW RANCHI-DHARAMJAIGARH  ROURKELA - RAIGARH ( SEL LILO  BYPASS)  JHARSUGUDA-RAIGARH  IBEUL-RAIGARH  STERLITE-RAIGARH  RANCHI-SIPAT  BUDHIPADAR-RAIGARH  BUDHIPADAR-KORBA  ER (With SR)	D/C S/C S/C S/C S/C D/C D/C S/C	-264 -41 0 0 0 0 0 1 349	ER-NR  147 243 0 0 0 0 0 0 -125	0.9 -0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1 0.1	-53.2 -0.9 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-52.3 -0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
15 765 16 765 17 18 400 20 21 22 23 220 24 HV 25 LI 26 400 27 220 mport/Expo	000 KV	JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C S/C S/C S/C D/C D/C S/C	-41 0 0 0 0 0 1 349	147 243 0 0 0 0 0 0 0 0	-0.6 0.0 1.3 0.8 0.8 0.6 0.0 5.1 0.1	-0.9 0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	-0.6 3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
15 765 16 765 17 18 400 20 21 22 23 220 24 HV 25 LI 26 400 27 220 mport/Expo	000 KV	JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C S/C S/C S/C D/C D/C S/C	-41 0 0 0 0 0 1 349	243 0 0 0 0 0 0 0 -125	0.0 1.3 0.8 0.8 0.6 0.0 5.1	0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
16 765 17 18 400 19 20 21 22 23 220 24 HV 25 LI 26 400 27 220 mport/Expo	000 KV	NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C S/C S/C S/C D/C D/C S/C	-41 0 0 0 0 0 1 349	243 0 0 0 0 0 0 0 -125	0.0 1.3 0.8 0.8 0.6 0.0 5.1	0.0 0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	3.2 1.3 0.8 0.8 -5.9 -0.1 5.1
17   18   400   20   21   22   23   220   24   HV   25   L1   26   400   27   220	20 KV	ROURKELA - RAIGARH ( SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C S/C S/C D/C D/C S/C	0 0 0 0 1 349	0 0 0 0 0 0 -125	1.3 0.8 0.8 0.6 0.0 5.1 0.1	0.0 0.0 0.0 -5.9 -0.1 0.0 -0.6	1.3 0.8 0.8 -5.9 -0.1 5.1
18 400 20 21 22 23 220 23 400 24 HV 25 LI 26 400 27 220 mport/Expo	20 KV	JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C S/C D/C D/C S/C	0 0 0 1 349	0 0 0 0 0 -125	0.8 0.8 0.6 0.0 5.1 0.1	0.0 0.0 -5.9 -0.1 0.0 -0.6	0.8 0.8 -5.9 -0.1 5.1
19 20 21 22 22 23 220 24 HV 25 LI 26 400 27 220 20 20 20 20 20 20 20 20 20 20 20 20	20 KV	IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR)	S/C D/C D/C S/C	0 0 1 349	0 0 0 0 -125	0.8 0.6 0.0 5.1 0.1	0.0 -5.9 -0.1 0.0 -0.6	0.8 -5.9 -0.1 5.1
20 21 22 22 23 220 24 HV 25 L1 26 400 27 220 mport/Expo	20 KV	STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR)	D/C D/C S/C	0 1 349	0 0 0 -125	0.6 0.0 5.1 0.1	-5.9 -0.1 0.0 -0.6	-5.9 -0.1 5.1
21 22 22(23 22(24 HV 25 LI 26 40(27 22(24 Mport/Expo	20 KV	RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR)	D/C S/C	1 349	0 0 -125	0.0 5.1 0.1	-0.1 0.0 -0.6	-0.1 5.1
22 22(23)  mport/Export 24 HV 25 LI 26 400 27 220  mport/Export	20 KV port of I	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR)	S/C	349	0 -125	5.1 0.1	0.0 -0.6	5.1
23 220 mport/Expo 24 HV 25 LI 26 400 27 220 mport/Expo	ort of H	BUDHIPADAR-KORBA ER (With SR)			-125	0.1	-0.6	
24 HV 25 LI 26 400 27 220 mport/Expo	ort of I	ER (With SR)						
24 HV 25 LI 26 400 27 220 mport/Expo	IVDC	*			EK-WK	8.1	-7.6	4.0
25 LI 26 400 27 220 mport/Expo		IEVPORE-GAZIIWAKA B/B				I.		
26 400 27 220 mport/Expo	LINK	SETTORE GIVEO WITHIN BID	D/C	0	-644	0	-16.2	-16.2
27 220 mport/Expo		TALCHER-KOLAR BIPOLE	D/C	0	-1968	0	-43.1	-43.1
mport/Expo		TALCHER-I/C		0	0	0	0	0
	20 KV	BALIMELA-UPPER-SILERRU	S/C	0	0 ER-SR	0.0	-59.3	-59.3
	ort of	FR (With NFR)			ER-SK	0.0	-59.5	-59.3
47 1 400		BINAGURI-BONGAIGAON	Q/C	321	0	12	0	12
		BIRPARA-SALAKATI	D/C	0	-92	0	-1	-1
			1		ER-NER	12.2	-1.1	11.1
mport/Expo	ort of V	WR (With NR)						
29 HV	HVDC	V'CHAL B/B	D/C	250	0	4.7	0.0	4.7
		GWALIOR-AGRA	D/C	0	-2368	0.0	-44.8	-44.8
		PHAGI-GWALIOR	D/C	0	-1222	0	-24	-24
		ZERDA-KANKROLI ZERDA -BHINMAL	S/C S/C	253 201	0	3.3 2.3	0.0	2.3
		ZERDA -BHINMAL V'CHAL -RIHAND	S/C S/C	0	-511	0.0	-10.6	-10.6
35		BADOD-KOTA	S/C	19	-53	0.0	-0.5	-0.5
36		BADOD-MORAK	S/C	70	0	0.9	0.0	0.9
37 220	20 KV	MEHGAON-AURAIYA	S/C	61	0	1.1	0.0	1.1
38		MALANPUR-AURAIYA	S/C	37	0	0.5	0.0	0.5
39 132	132KV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
			1		WR-NR	12.8	-80.3	-67.5
		APL-MHG	D/C	0	-2520	0.0	-55.2	-55.2
		WR (With SR)	1	0	-1000	0.0	22.0	-23.8
		BHADRAWATI B/B BARSUR-L.SILERU	-	0	-1000	0.0	-23.8 0.0	0.0
		SOLAPUR-RAICHUR	D/C	48	-992	0.0	-10.8	-10.8
44		KOLHAPUR-CHIKODI	D/C	0	-180	0.0	-3.5	-3.5
	F	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
46	-	XELDEM-AMBEWADI	S/C	139	0	2.3	0.0	2.3
<del></del>			<del></del>		WR-SR	2.3	-38.1	-35.8
		TRANSNA	TIONAL	EXCHAN	IGE	•		
47		BHUTAN						34
48		NEPAL						-8