

National Load Despatch Centre पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड POWER SYSTEM ORERATION CORROBATION LIM

POWER SYSTEM OPERATION CORPORATION LIMITED

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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

Date: 13th July, 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. 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, बंगलुरु 560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 12.07.2016.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स. - 5.5.1 के प्रावधान के अनुसार, दिनांक 12.07.16 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 12th July 2016, is available at the NLDC website.

http://posoco.in/WebsiteData/Reports/DailyReports/2016-2017/July%202016/13.07.16_NLDC_PSP.pdf

Thanking You.

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

Report for previous day Date of Reporting 13-Jul-16

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	46570	36464	34965	18219	2397	138615
Peak Shortage (MW)	478	54	0	350	94	976
Energy Met (MU)	1108	821	787	372	43	3132
Hydro Gen(MU)	330	45	38	72	23	507
Wind Gen(MU)	18	81	149			248

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	0.00	1.99	1.99	71.82	26.19
SR GRID	0.00	0.00	0.00	1.99	1.99	71.82	26.19

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 (MO)	Schedule (MO)	OD(-) (MO)	OD (MW
Punjab Haryana Rajasthan Delhi	Punjab	9693	0	220.9	133.4	0.1	220
	Haryana	8756	0	185.4	138.2	-3.9	137
	Rajasthan	7856	0	173.1	58.9	2.5	337
		5230	0	107.7	88.0	-1.9	220
NR	UP	14802	420	316.1	147.8	1.5	509
	Uttarakhand HP	1869	0	40.7	21.1	0.4	161
		1230	0	25.1	2.7	0.3	65
	J&K	1456	364	32.4	14.4	-4.6	180
	Chandigarh	339	0	6.7	6.6	0.1	37
	Chhattisgarh	3167	0	73.3	24.0	0.1	350
	Gujarat	11562	0	256.1	63.5	-3.0	450
	MP	5666	0	119.5	75.0	-4.0	401
WR	Maharashtra	15240	0	331.0	62.7	-1.5	755
VVIX	Goa	422	0	8.7	7.8	0.5	78
	DD	264	0	5.8	5.5	0.0	11
	DNH	716	0	16.5	16.9	-0.3	-5
	Essar steel	546	0	10.6	10.3	0.2	200
	Andhra Pradesh	6871	0	145.8	20.9	1.5	525
	Telangana	5860	0	120.8	77.8	1.0	363
SR	Karnataka	7306	250	149.3	49.9	1.4	708
•	Kerala	3141	0	57.8	40.3	0.7	311
	Tamil Nadu	13847	0	305.6	119.6	-2.0	600
	Pondy	351	0	7.2	7.7	-0.5	4
	Bihar	3484	100	70.9	67.2	1.5	180
	DVC	2675	50	60.6	-23.8	0.5	250
ER	Jharkhand	1111	0	20.3	15.6	-0.6	100
	Odisha	4032	150	76.7	23.8	0.5	560
	West Bengal	7344	0	142.2	34.0	0.9	300
	Sikkim	88	0	1.1	1.0	0.1	25
	Arunachal Pradesh	97	7	1.9	1.9	0.0	22
	Assam	1522	46	27.4	21.7	1.2	269
	Manipur	136	2	1.8	2.4	-0.5	35
NER	Meghalaya	261	0	4.6	0.5	-0.1	54
	Mizoram	73	1	1.2	1.0	0.1	26
	Nagaland	98	5	1.9	1.8	0.1	0
	Tripura	243	0	4.1	3.4	0.6	69

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	32.6	-4.2	-12.5
Day peak (MW)	1413.5	-227.6	-545.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	197.5	-160.1	53.9	-84.4	-5.2	1.7
Actual(MU)	190.2	-164.4	51.7	-77.5	-5.7	-5.7
O/D/U/D(MU)	-7.3	-4.3	-2.2	6.9	-0.5	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2788	14818	1220	2050	0	20876
State Sector	10160	22491	9791	5039	110	47591
Total	12948	37309	11011	7089	110	68467

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

1	KV KV KV KV KV KV KV	Line Details ER (With NR) GAYA-VARANASI SASARAM-FATEHPUR GAYA-BALIA PUSAULI B/B PUSAULI-SARNATH PUSAULI-SARNATH PUSAULI-SALIAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI SONE NAGAR-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 BUHPADAR-RAIGARH BUHPADAR-RAIGARH BUHPADAR-RAIGARH BUHPADAR-RAIGARH BUHPADAR-RAIGARH BUHPADAR-RAIGARH ER (With SR) JEYPORE-GAZUWAKA B/B	D/C S/C S/C D/C S/C D/C S/C S/C D/C S/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C S/C D/C D/C D/C S/C D/C D/C	Max Import (MW) 0 267 0 0 0 0 0 0 148 0 0 0 0 0 0 0 0 148 173 191 135 30 243 0 31	Max Export (MW) 375 0 357 248 190 97 75 1028 173 517 0 0 0 0 0 0 0 0 0	Import (MU) 0.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Export (MU) 15.3 0.0 8.9 6.1 0.0 0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 1.9 1.9 1.9 1	Import=(+ve) /Export=(-ve) /Export=(-ve) for NET (MU) NET (MU) -15.3 3.0 -8.9 -6.1 0.0 0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1 9.4
Leve Poort/Export	KV KV KV KV KV KV KV	CR (With NR) GAYA-VARANASI SASARAM-FATEHPUR GAYA-BALIA PUSAULI B/B PUSAULI-SARNATH PUSAULI-SARNATH PUSAULI-ALLAHABAD MUZAFFAPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI CR (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 BUHPPORE-GAZUWAKA B/B	D/C S/C S/C D/C S/C S/C S/C S/C S/C S/C S/C D/C D/C S/C D/C S/C S/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	Import (MW)	Export (MW) 375 0 357 248 190 97 753 1028 173 517 0 215 0 0 ER-NR 518 0 0 0 0 0 ER-NR	0.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(MU) 15.3 0.0 8.9 6.1 0.0 0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	(MU) -15.3 3.0 -8.9 -6.1 0.0 0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 4.5 -1.9 -0.1
1	KV CONK KV KV KV KV KV L t of I	GAYA-VARANASI SASARAM-FATEHPUR GAYA-BALIA PUSAULI B/B PUSAULI-SARNATH PUSAULI-ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI 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 STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA CR (With SR) JEYPORE-GAZUWAKA B/B	S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C S/C D/C S/C S/C D/C D/C S/C D/C D/C S/C D/C D/C	267 0 0 0 0 0 0 3 0 148 0 0 0 0 0 0 0 0 0 0 0 0 0	0 357 248 190 97 753 1028 173 517 0 215 0 0 ER-NR 518 0 0 0 0 0 ER-NR	3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 8.9 6.1 0.0 0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9 1.9 1.9 1.1 1.0 0.0 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	3.0 -8.9 -6.1 0.0 0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
2 765K 3 765K 3 4 HVDC 11NK 5 6 7 8 400 K 9 10 11 12 220 K 13 14 15 16 17 765 K 19 20 400 K 22 23 24 22 23 24 25 220 K 22 23 24 25 220 K 22 23 24 25 220 K 24 25 220 K 26 HVDC 27 LINE 28 400 K 29 220 K 20 400 K 31 220 K 20 400 K 31 220 K 21 400 K 31 220 K 22 5 7 5 6 K 31 400 K 32 400 K 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 31 400 K 31 400 K 31 400 K 31 400 K 32 400 K 33 400 K 34 400 K 35 765 K 37 400 K 38 400 K 39 400 K 40 400 K 40 400 K 40 400 K	KV KV KV KV KV KV	SASARAM-FATEHPUR GAYA-BALIA PUSAULI B/B PUSAULI-SARNATH PUSAULI-ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BBHARSHARIFF-BALIA BBHARSHARIFF-VARANASI PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI CR (With WR) JHARSUGUDA-DHARAMJAIGARH S/C NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH (SEL LILO BYPASS) JHARSUGUDA-RAIGARH BEUL-RAIGARH STERLITE-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-KORBA CR (With SR) JEYPORE-GAZUWAKA B/B	S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C S/C D/C S/C S/C D/C D/C S/C D/C D/C S/C D/C D/C	267 0 0 0 0 0 0 3 0 148 0 0 0 0 0 0 0 0 0 0 0 0 0	0 357 248 190 97 753 1028 173 517 0 215 0 0 ER-NR 518 0 0 0 0 0 ER-NR	3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 8.9 6.1 0.0 0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9 1.9 1.9 1.1 1.0 0.0 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	3.0 -8.9 -6.1 0.0 0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
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4 HVDC LINK 5 6 7 8 400 K 9 10 11 12 220 K 13 14 15 16 17 18 765 K 19 20 21 22 23 24 25 22 23 24 25 220 K 20 K 20 LINF 28 400 K 29 220 K 30 400 K 31 220 K 31 220 K 31 400 K	KV KV KV KV KV Lt of I	PUSAULI B/B PUSAULI-SARNATH PUSAULI-ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI 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-ROGRA ER (With SR) JEYPORE-GAZUWAKA B/B	S/C S/C D/C D/C S/C D/C S/C S/C D/C S/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C S/C D/C D/C	0 0 0 3 0 148 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	248 190 97 753 1028 173 517 0 215 0 0 0 ER-NR 518 0 0 0 0 152 95 ER-WR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6.1 0.0 0.0 0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-6.1 0.0 0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
1	KV KV KV KV KV Lt of I	PUSAULI-SARNATH PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI 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 ER (With SR) JEYPORE-GAZUWAKA B/B	S/C D/C D/C D/C S/C D/C S/C S/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	0 0 0 3 0 148 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	190 97 753 1028 173 517 0 215 0 0 0 ER-NR 518 0 0 0 0 0 ER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
5 6 7 8 400 K 9 10 11 12 220 K 13 14 15 16 16 17 18 765 K 19 20 400 K 22 23 24 25 220 K 22 23 24 25 220 K 22 23 24 25 22 23 24 25 22 23 24 25 20 K 20 10 10 10 10 10 10 10 10 10 10 10 10 10	KV KV KV KV KV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI CR (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-KORBA CR (With SR) JEYPORE-GAZUWAKA B/B	D/C D/C D/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	0 3 0 148 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	97 753 1028 173 517 0 215 0 0 215 0 0 ER-NR 518 0 0 0 0 ER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9	0.0 -10.1 -19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
10 11 12 220 K 13 14 15 16 17 18 19 19 19 19 19 19 19	KV KV KV KV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI CR (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-KORBA CR (With SR) JEYPORE-GAZUWAKA B/B	D/C D/C D/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	0 3 0 148 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	97 753 1028 173 517 0 215 0 0 215 0 0 ER-NR 518 0 0 0 0 ER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9	0.0 -10.1 -19.2 -1.9 -11.1 -0.0 -4.2 -0.0 -6 -0.0 -73.1 -5.9 -2.7 -2.5 -1.9 -0.1
7 8 9 400 K 9 10 11 12 220 K 13 14 15 16 16 17 18 765 K 19 20 400 K 21 22 23 24 22 25 220 K 224 225 220 K 226 HVDC 27 LINE 28 400 K 29 220 K 20 400 K 31 220 K 20 400 K 31 220 K	KV KV KV KV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI 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-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	D/C Q/C D/C D/C D/C S/C D/C S/C S/C S/C S/C S/C D/C S/C S/C D/C D/C S/C D/C D/C S/C D/C D/C	0 148 0 30 0 0 0 0 0 0 0 0 0 72 438 173 191 135 30 243 0 31	1028 173 517 0 215 0 0 0 0 ER-NR 518 0 0 0 0 0 ER-NR 518 0 0 ER-NR 518 0 0 ER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.1 19.2 1.9 11.1 0.0 4.2 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-10.1 -19.2 -1.9 -11.1 0.0 -4.2 -0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
9 10 11 12 220 K 13 14 15 16 17 18 19 20 21 22 23 24 25 22 23 24 25 22 23 24 25 20 K 27 LINE 28 400 K 29 220 K 20 20 K 20 20 K 20 20	KV KV KV KV	PATNA-BALIA BIHARSHARIFF-BALIA BARH-GORAKHPUR BIHARSHARIFF-VARANASI 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 ER (With SR) JEYPORE-GAZUWAKA B/B	Q/C D/C D/C S/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	0 148 0 30 0 0 0 0 0 0 0 0 0 72 438 173 191 135 30 243 0 31	1028 173 517 0 215 0 0 0 0 ER-NR 518 0 0 0 0 0 ER-NR 518 0 0 ER-NR 518 0 0 ER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 11.1 0.0 4.2 0.0 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	-19.2 -1.9 -11.1 0.0 -4.2 0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
10 11 12 220 K 13 14 15 16 17 16 17 18 765 K 19 20 21 21 22 23 24 25 22 23 24 25 20 K 20 K 20 K 20 LINF 28 400 K 29 220 K 20 LINF 28 400 K 29 220 K 20 LINF 28 400 K 29 220 K 20 LINF 30 400 K 31 220 K 20 K 21 22 K 22 C C C C C C C C C C C C C C C C C C	KV t of I KV t of I	BARH-GORAKHPUR BIHARSHARIFF-VARANASI 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-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	D/C D/C S/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 D/C D/C D/C D	0 30 0 0 0 0 0 0 72 438 173 191 135 30 243 0 31	517 0 215 0 0 0 0 ER-NR 518 0 0 0 0 0 0 ER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.1 0.0 4.2 0.0 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 1.9 1.9 1.7 1.9	-11.1 0.0 -4.2 0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
11 12 12 13 14 13 14 15 16 16 17 18 765 K 19 20 21 22 23 24 25 22 23 24 25 220 K 221 23 24 25 20 K 20 K 20 K 20 K 20 K 20 K 21 LINE 28 400 K 29 220 K 20	KV t of I KV t of I	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-SHUPURI 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) JEYPORE-GAZUWAKA B/B	D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C D/C S/C S/C S/C S/C S/C S/C D/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	30 0 0 0 0 0 0 0 72 438 173 191 135 30 243 0 31	0 215 0 0 0 0 0 0 0 0 152 95 ER-WR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 4.2 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 -4.2 0.0 0.6 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9
12 220 K 13 14 15 16 17 18 17 18 19 19 19 19 19 19 19	KV t of I KV t of I	PUSAULI-SAHUPURI SONE NAGAR-RIHAND GARWAH-RIHAND KARMANASA-SAHUPURI KARMANASA-CHANDAULI CR (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 CR (With SR) JEYPORE-GAZUWAKA B/B	S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	0 0 0 0 0 0 72 438 173 191 135 30 243 0 31	215 0 0 0 0 ER-NR 518 0 0 0 0 1518 0 ER-WR	0.0 0.0 0.6 0.0 0.0 3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0	4.2 0.0 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-4.2 0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
13	KV t of I KV t of I	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) JEYPORE-GAZUWAKA B/B	S/C S/C S/C S/C S/C S/C S/C S/C S/C D/C S/C S/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	0 0 0 0 0 72 438 173 191 135 30 243 0 31	0 0 0 0 ER-NR 518 0 0 0 0 0 0 152 95 ER-WR	0.0 0.6 0.0 0.0 3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0	0.0 0.0 0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1	0.0 0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
132 K 132 K 136 K 136 K 137 K 138 K 139 K 139 K 130	KV KV KV T t of I	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) JEYPORE-GAZUWAKA B/B	S/C S/C S/C S/C S/C S/C D/C S/C S/C S/C D/C S/C D/C S/C D/C D/C S/C D/C D/C	72 438 173 191 135 30 243 0	0 0 0 ER-NR 518 0 0 0 0 0 0 0 152 95 ER-WR	0.6 0.0 0.0 3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0	0.0 0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 1.9 0.1	0.6 0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9
15 132 K 15 16 17 18 19 20 21 22 23 24 25 220 K 27 27 28 400 K 29 220 K 20 20 K 31 220 K 31 220 K 32 HVD 34 HVD 35 765 K 37 400 K 39 400 K 39 400 K 39 400 K 40 400 K 41 400 K 400 K	KV KV KV T t of I	KARMANASA-SAHUPURI KARMANASA-CHANDAULI CR (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 CR (With SR) JEYPORE-GAZUWAKA B/B	S/C S/C S/C S/C D/C S/C S/C S/C S/C D/C D/C S/C D/C D/C S/C D/C D/C	72 438 173 191 135 30 243 0	0 0 ER-NR 518 0 0 0 0 0 0 152 95 ER-WR	0.0 0.0 3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0	0.0 0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1	0.0 0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
15 16	KV KV KV T t of I	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) JEYPORE-GAZUWAKA B/B	D/C D/C S/C S/C S/C S/C D/C D/C	72 438 173 191 135 30 243 0 31	0 ER-NR 518 0 0 0 0 0 0 152 95 ER-WR	0.0 3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0 17.3	0.0 76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	0.0 -73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
port/Export of 17 18 765 K 19 20 400 K 22 23 24 25 220 K 25 220 K 26 15 26 27 15 15 28 400 K 29 220 K 20 20 K 20 20 K 20 20	KV KV t of H	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) JEYPORE-GAZUWAKA B/B	D/C D/C S/C S/C S/C D/C D/C	72 438 173 191 135 30 243 0 31	518 0 0 0 0 0 0 0 152 95 ER-WR	3.6 0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0 17.3	76.7 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	-73.1 -5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
17	KV KV t of H	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) JEYPORE-GAZUWAKA B/B	D/C S/C S/C S/C D/C D/C D/C D/C D/C D/C D/C	438 173 191 135 30 243 0 31	518 0 0 0 0 0 0 0 152 95 ER-WR	0.0 2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0	5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	-5.9 2.7 2.5 3.1 2.2 2.2 4.5 -1.9
17	KV KV t of H	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) JEYPORE-GAZUWAKA B/B	D/C S/C S/C S/C D/C D/C D/C D/C D/C D/C D/C	438 173 191 135 30 243 0 31	0 0 0 0 0 0 0 152 95 ER-WR	2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0 17.3	0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
18	KV KV t of I	NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH (SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	D/C S/C S/C S/C D/C D/C D/C D/C D/C D/C D/C	438 173 191 135 30 243 0 31	0 0 0 0 0 0 0 152 95 ER-WR	2.7 2.5 3.1 2.2 2.2 4.5 0.0 0.0 17.3	0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	2.7 2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
18 19 20 21 21 22 23 24 25 25 20 KPOPTE EXPORT 6 26 HVD6 27 LINF 28 400 K 29 220 K 20 HVD6 31 220 K 20 HVD6 31 220 K 20 HVD6 33 HVD6 34 HVD6 35 765 K 36 765 K 37 400 K 37 400 K 39 400 K 40 400 K 41	KV KV t of I	ROURKELA - RAIGARH (SEL LILO BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	S/C S/C S/C D/C D/C D/C D/C D/C D/C D/C	173 191 135 30 243 0 31	0 0 0 0 0 152 95 ER-WR	2.5 3.1 2.2 2.2 4.5 0.0 0.0 17.3	0.0 0.0 0.0 0.0 0.0 1.9 0.1 7.9	2.5 3.1 2.2 2.2 4.5 -1.9 -0.1
20 21 22 23 24 25 20 Exercise 400 K 22 21 23 24 25 20 K 20 Exercise 400 K 20 Exercise 400 K 21 22 23 24 25 20 K 20 Exercise 400 K 21 220 K 230 Exercise 400 K 240 Exercise 400 K 25 Exercise 400 K 26 Exercise 400 K 26 Exercise 400 K 27 Exercise 400 K 28 Exercise 400 K 29 Exercise 400 K 20 Exercise 4	KV t of I	BYPASS) JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	S/C S/C D/C D/C S/C D/C D/C S/C D/C	191 135 30 243 0 31	0 0 0 0 152 95 ER-WR	3.1 2.2 2.2 4.5 0.0 0.0 17.3	0.0 0.0 0.0 0.0 1.9 0.1 7.9	3.1 2.2 2.2 2.2 4.5 -1.9 -0.1
21 22 23 400 K 22 23 24 25 220 K 24 25 220 K 26 HVDC 27 LINE 28 400 K 29 220 K 29 220 K 20 1N 20 1	KV t of I	JHARSUGUDA-RAIGARH IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	S/C D/C D/C S/C D/C S/C D/C	135 30 243 0 31	0 0 0 152 95 ER-WR	2.2 2.2 4.5 0.0 0.0 17.3	0.0 0.0 0.0 1.9 0.1 7.9	2.2 2.2 4.5 -1.9 -0.1
21 22 23 400 K 22 23 24 25 220 K 24 25 220 K 26 HVDC 27 LINE 28 400 K 29 220 K 29 220 K 20 1N 20 1	KV t of I	IBEUL-RAIGARH STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	S/C D/C D/C S/C D/C S/C D/C	135 30 243 0 31	0 0 0 152 95 ER-WR	2.2 2.2 4.5 0.0 0.0 17.3	0.0 0.0 0.0 1.9 0.1 7.9	2.2 2.2 4.5 -1.9 -0.1
23 24 25 220 K 25 220 K 26 400 K 27 LINE 28 400 K 29 220 K 20 K 20 LINE 30 400 K 31 220 K 20	t of I	STERLITE-RAIGARH RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	D/C S/C D/C	30 243 0 31	0 0 152 95 ER-WR	2.2 4.5 0.0 0.0 17.3	0.0 0.0 1.9 0.1 7.9	2.2 4.5 -1.9 -0.1
24 220 K port/Export of 26 HVD0 27 LINF 28 400 K 29 220 K port/Export of 31 220 K port/Export of 33 HVD0 34 HVD0 35 765 K 37 400 K 37 400 K 39 400 K 40 400 K 41	t of I	RANCHI-SIPAT BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	S/C D/C	0 31	152 95 ER-WR	0.0 0.0 17.3	1.9 0.1 7.9	-1.9 -0.1
25 220 K 26 HVDC 27 LINE 28 400 K 29 220 K 29 220 K 20 HVDC 30 400 K 31 220 K 20 HVDC 31 400 K 32 HVDC 33 HVDC 34 HVDC 35 765 K 36 765 K 37 400 K 37 400 K 39 400 K 40 400 K	t of I	BUDHIPADAR-KORBA ER (With SR) JEYPORE-GAZUWAKA B/B	D/C	31	95 ER-WR	0.0 17.3	0.1 7.9	-0.1
25 pport/Export c 26	t of I	ER (With SR) JEYPORE-GAZUWAKA B/B	D/C		ER-WR	17.3	7.9	
26 HVDC 27 LINE 28 400 K 29 220 K port/Export 30 400 K 31 220 K port/Export 6 32 HVD port/Export 6 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 40 400 K	DC	JEYPORE-GAZUWAKA B/B		0.0				9.4
26 HVDC 27 LINE 28 400 K 29 220 K port/Export 30 400 K 31 220 K port/Export 6 32 HVD port/Export 6 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 40 400 K	DC	JEYPORE-GAZUWAKA B/B		0.0	307	0.0		
27 LINE 28 400 K 29 220 K 20 Export/Export 30 400 K 31 220 K 31 220 K 32 HVD 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 40 400 K	-			0.0	307	0.0		
28 400 K 29 220 K 29 220 K 30 400 K 31 220 K 31 220 K 32 HVD 32 HVD 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 40 400 K	NTZ.					0.0	14.8	-14.8
29 220 K aport/Export 30 400 K 31 220 K aport/Export of the state of	.11	TALCHER-KOLAR BIPOLE	D/C	0.0	1974	0.0	36.1	-36.1
port/Export 6 30 400 K 31 220 K port/Export 6 32 HVD port/Export 6 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 37 400 K 39 400 K 40 400 K	KV	TALCHER-I/C		355.6	630	1.0	5.2	-4.2
30 400 K 31 220 K 31 220 K 32 HVD 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 39 400 K 40 400 K	KV	BALIMELA-UPPER-SILERRU	S/C	0	0	0.0	0.0	0.0
30 400 K 31 220 K 31 220 K 32 HVD 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 39 400 K 40 400 K					ER-SR	1.0	50.9	-50.9
31 220 K aport/Export of 32 HVD aport/Export of 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 40 400 K 41	t of	ER (With NER)						
port/Export of 32 HVD aport/Export of 33 HVD aport/Export of 33 HVD aport/Export of 35 765 K aport apo		BINAGURI-BONGAIGAON	Q/C	404	446	0.0	2.3	-2
32 HVD 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 40 400 K 41	KV	BIRPARA-SALAKATI	D/C	0	0	0.0	2.0	-2
32 HVD 33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 40 400 K 41					ER-NER	0.0	4.3	-4.3
33 HVD 34 HVD 35 765 K 36 765 K 36 765 M 37 400 K 38 400 K 39 400 K 40 400 K			1			I .		
33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 40 400 K 41	DC	BISWANATH CHARIALI-AGRA	-	485	0	10.7	0.0	10.7
33 HVD 34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 40 400 K 41		TIP (TIME AIR)			NR-NER	10.7	0.0	10.7
34 HVD 35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 40 400 K			P.G	250		4.0	0.0	4.0
35 765 K 36 765 K 37 400 K 38 400 K 39 400 K 40 400 K		V'CHAL B/B	D/C	250	0	4.9	0.0	4.9
36 765 K 37 400 K 38 400 K 39 400 K 40 400 K		APL -MHG	D/C	0	2215	0.0	38.8	-38.8
37 400 K 38 400 K 39 400 K 40 400 K		GWALIOR-AGRA	D/C	0	2744	0.0	53.8	-53.8 25.6
38 400 K 39 400 K 40 400 K		PHAGI-GWALIOR ZERDA-KANKROLI	D/C S/C	139	1248 80	0.0	25.6	-25.6
39 400 K 40 400K 41		ZERDA-KANKROLI ZERDA -BHINMAL	S/C S/C	178	153	1.1 0.6	0.0	1.1 0.6
40 400K		V'CHAL -RIHAND	S/C	0	0	0.0	0.0	0.0
41		RAPP-SHUJALPUR	D/C	0	0	0.0	0.0	0.0
	as v	BADOD-KOTA	S/C	23	101	0.0	0.0	-0.8
42		BADOD-MORAK	S/C	0	98	0.0	1.1	-0.8
43 220 K	KV	MEHGAON-AURAIYA	S/C	49	0	0.7	0.0	0.7
44		MALANPUR-AURAIYA	S/C	25	14	0.7	0.0	0.7
45 132K	KV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
				-	WR-NR	7.5	120.2	-112.7
port/Export	t of V	VR (With SR)						
46 HVD 0		BHADRAWATI B/B	-	0	1000	0.0	17.2	-17.2
47 LINI	-	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
48 765 K		SOLAPUR-RAICHUR	D/C	191	1658	191.0	24.3	166.7
49 400 K		KOLHAPUR-KUDGI	D/C	154	243	0.7	0.9	-0.2
50		KOLHAPUR-CHIKODI	D/C	0	176	0.0	3.7	-3.7
51 220 K		PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
52		XELDEM-AMBEWADI	S/C	93	0	1.7	0.0	1.7
					WR-SR	193.4	46.1	147.3
			NATIONA	L EXCHA	NGE	i		
54		TRANSN						3
55		TRANSN BHUTAN						