

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर 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: 28th Oct 2018

То

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 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
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,२९ , रेस कोर्स क्रॉस रोड , बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 27.10.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-अक्टूबर-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 27th October 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** 28-Oct-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43214	52608	44028	19496	2501	161847
Peak Shortage (MW)	1436	0	75	188	81	1780
Energy Met (MU)	944	1246	1002	385	44	3621
Hydro Gen (MU)	151	24	91	65	14	345
Wind Gen (MU)	3	25	58			87
Solar Gen (MU)*	21.64	19.1	71.94	0.96	0.05	114
Energy Shortage (MU)	5.5	0.0	0.4	0.6	0.7	7.2
Maximum Demand Met during the day	44463	56424	43992	19564	2534	163378
(MW) & time (from NLDC SCADA)	18:38	11:00	18:51	18:15	18:33	18:34

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	0.041	0.00	0.17	10.66	10.83	80.88	8.29

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	5896	0	137.1	35.8	-0.6	135	0.0
	Haryana	6161	0	126.0	94.2	0.7	176	0.0
	Rajasthan	10903	0	219.4	41.4	1.1	304	0.0
	Delhi	3450	0	68.9	52.5	-1.1	74	0.0
NR	UP	13581	960	285.3	113.6	-0.7	266	0.0
	Uttarakhand	1754	0	35.8	16.0	0.3	281	0.0
	HP	1474	0	28.5	16.2	1.1	145	0.0
	J&K	1905	476	39.3	37.9	-6.0	31	5.4
	Chandigarh	165	0	3.1	3.3	-0.1	32	0.0
	Chhattisgarh	4037	0	88.9	24.6	-1.6	253	0.0
	Gujarat	16194	0	360.1	120.2	8.1	720	0.0
	MP	12088	0	260.3	149.9	0.6	687	0.0
WR	Maharashtra	23277	0	496.1	170.9	-0.5	960	0.0
	Goa	470	0	10.5	9.9	0.2	48	0.0
	DD	336	0	7.5	6.5	1.0	69	0.0
	DNH	678	0	15.8	15.4	0.4	102	0.0
	Essar steel	451	0	7.0	6.3	0.7	302	0.0
	Andhra Pradesh	8633	0	192.7	65.1	2.1	635	0.0
	Telangana	9998	0	216.7	95.9	0.9	516	0.0
SR	Karnataka	9769	0	204.0	42.9	0.9	445	0.0
3K	Kerala	3607	0	71.8	42.5	0.9	273	0.4
	Tamil Nadu	14354	0	309.7	148.0	2.9	657	0.0
	Pondy	331	0	7.1	7.3	-0.2	18	0.0
	Bihar	4265	0	74.0	74.3	-2.8	50	0.0
	DVC	2948	0	63.2	-21.5	1.4	200	0.0
ER	Jharkhand	1064	188	22.3	15.2	0.3	150	0.6
EK	Odisha	4625	0	94.2	35.5	1.1	210	0.0
	West Bengal	7020	0	129.8	44.6	2.2	380	0.0
	Sikkim	95	0	1.3	1.3	0.0	25	0.0
	Arunachal Pradesh	96	7	2.1	1.9	0.2	20	0.0
	Assam	1598	23	26.9	21.4	1.2	101	0.7
	Manipur	142	6	2.3	2.3	0.1	21	0.0
NER	Meghalaya	305	6	5.3	2.7	0.0	29	0.0
	Mizoram	89	2	1.8	0.9	0.2	18	0.0
	Nagaland	132	11	2.0	1.7	-0.2	26	0.0
	Tripura	245	2	3.9	2.3	0.2	65	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	8.0	-2.2	-15.9
Day peak (MW)	423.4	-142.0	-916.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	127.9	-178.0	103.9	-54.1	0.7	0.4
Actual(MU)	108.8	-183.1	111.2	-39.8	1.1	-1.9
O/D/U/D(MU)	-19.2	-5.1	7.3	14.3	0.4	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4395	13167	8372	810	401	27145
State Sector	9565	13362	6370	7215	50	36562
Total	13960	26529	14742	8025	451	63707

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	592	1272	568	391	6	2828
Hydro	151	24	91	65	14	345
Nuclear	24	29	43	0	0	97
Gas, Naptha & Diesel	41	69	25	0	24	158
RES (Wind, Solar, Biomass & Others)	41	46	170	1	0	258
Total	849	1440	897	457	43	3686

Share of RES in total generation (%)	4.82	3.16	18.97	0.22	0.07	6.99
Share of Non-fossil fuel (Hydro, Nuclear and	25 51	6.05	33.93	14.47	32.47	18.99
RES) in total generation (%)	25.51	0.85	33.93	14.47	32.47	10.99

H. Diversity Factor
All India Demand Diversity Factor
1.022
Diversity factor = Sum of regional maximum demands / All India maximum demand

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

						Date of I	Reporting :	28-Oct-
								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)
nport/E	export of	ER (With NR) GAYA-VARANASI	D/C	295	240	0.0	0.1	-0.1
2	765kV	SASARAM-FATEHPUR	S/C	346	0	4.6	0.0	4.6
3		GAYA-BALIA	S/C	30	161	0.0	1.7	-1.7
4	HVDC	ALIPURDUAR-AGRA	-	0	251	0.0	6.2	-6.2
5		PUSAULI B/B	S/C	0	400	0.0	9.8	-9.8
7		PUSAULI-VARANASI	S/C S/C	0	309 178	0.0	3.1	-6.4 -3.1
8		PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	D/C	245	256	0.0	0.5	-0.5
9	400 kV	PATNA-BALIA	Q/C	0	629	0.0	11.8	-11.8
10		BIHARSHARIFF-BALIA	D/C	128	118	0.2	0.0	0.2
11		MOTIHARI-GORAKHPUR	D/C	0	327	0.0	6.2	-6.2
12		BIHARSHARIFF-VARANASI	D/C	335	0	2.8	0.0	2.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	158	0.0	3.0	-3.0
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	25	0	0.7	0.0	0.7
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0 ED ND	0.0	0.0	0.0
port/E	export of	ER (With WR)			ER-NR	8.2	48.6	-40.4
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1214	0	19.8	0.0	19.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	461	275	4.7	0.0	4.7
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	1074	0	16.9	0.0	16.9
21		RANCHI-SIPAT	D/C S/C	266	0	4.7 0.0	0.0	4.7 0.0
23	220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	D/C	220	0	4.1	0.0	4.1
23		DUDNIPADAR-KUKBA	D/C	220	ER-WR	50.1	0.0	50.1
	· -	ER (With SR)	D/C	0.0	1764.0	0.0	20.4	20.4
24	765 kV	ANGUL-SRIKAKULAM JEYPORE-GAZUWAKA B/B	D/C D/C	0.0	1764.0 681.0	0.0	30.4 13.1	-30.4 -13.1
26	HVDC LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1492.0	0.0	47.9	-13.1
27	400 kV	TALCHER-I/C	D/C	0.0	758.0	0.0	9.7	-9.7
	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
28					ED CD			01.2
		PED (WAL MED)			ER-SR	0.0	91.3	-91.3
nport/E	Ĺ	ER (With NER)	D/C	0		<u> </u>		
	Export of	ER (With NER) BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C D/C	0	512 375	0.0	8.1 5.4	-91.3 -8 -5
port/E	Ĺ	BINAGURI-BONGAIGAON			512	0.0	8.1	-8
29 30 31	400 kV 220 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C	0	512 375	0.0	8.1 5.4	-8 -5
29 30 31	400 kV 220 kV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	0	512 375 115	0.0 0.0 0.0	8.1 5.4 1.8	-8 -5 -2
29 30 31 mport/E	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	D/C	0	512 375 115 ER-NER	0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3	-8 -5 -2 -15.3
29 30 31 mport/E 32	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR)	D/C D/C	0	512 375 115 ER-NER 702 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7	-8 -5 -2 -15.3 -14.7 -14.7
29 30 31 mport/E 32 mport/E 33	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C	0 0	512 375 115 ER-NER 702 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7	-8 -5 -2 -15.3 -14.7 -14.7
29 30 31 31 aport/E 32 aport/E 33 34	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C D/C D/C	0 0 0 0 242	512 375 115 ER-NER 702 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0
29 30 31 31 aport/E 32	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C	0 0	512 375 115 ER-NER 702 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7	-8 -5 -2 -15.3 -14.7 -14.7
29 30 31 31 32 32 aport/E 33 34 35	400 kV 220 kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG	D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 242 0	512 375 115 ER-NER 702 NER-NR 1002 0 981	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6
29 30 31 31 32 32 33 34 35 36	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA	D/C D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 242 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0
29 30 31 32 aport/E 33 34 35 36 37	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C	0 0 0 0 242 0 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6
29 30 31 31 32 32 33 34 35 36 37 38 39 40	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI	D/C	0 0 0 242 0 0 0 219 408	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9
33 34 35 36 37 38 39 40 41	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI	D/C	0 0 0 242 0 0 0 219 408 0 416	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3
33 34 35 36 37 38 39 40 41 42	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 0 242 0 0 0 219 408 0 416 400	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3 4.8
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C	0 0 0 242 0 0 0 219 408 0 416 400 488	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -34.9 3.3 4.8 11.4
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 7.6 -34.9 3.3 4.8 11.4 3
33 34 35 36 37 38 40 41 42 43 44 45	400 kV 220 kV Export of HVDC Export of HVDC 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C D/C D/C 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	0 0 0 242 0 0 0 219 408 0 416 400 488 501	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -3.3 -4.8 -11.4 -3.3 -3.
29 30 31 31 apport/E 32 33 34 35 36 37 38 39 40 41 42 43 44	400 kV 220 kV Export of HVDC Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 7.6 -34.9 3.3 4.8 11.4 3
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	400 kV 220 kV Export of HVDC Export of HVDC 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	D/C D/C D/C 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	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3 4.8 11.4 3 3.2 1.3
29 30 31 32 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46 47	400 kV 220 kV Export of HVDC Export of HVDC 765 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C 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 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3 4.8 11.4 3 3.2 1.3
pport/E 29 30 31 31 32 32 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Export of HVDC 765 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3 4.8 11.4 3 3.2 1.3 1.8
port/E 29 30 31 31 32 32 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Apport of HVDC 765 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 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	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.6 16.7 1	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3 4.8 11.4 3 3.2 1.3 1.8 1.0 0.0 -74.9
pport/E 29 30 31 31 32 32 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Export of HVDC 765 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI 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	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -34.9 -3.3 -4.8 -11.4 -3 -3.2 -1.3 -1.8 -1.0 -1.0 -74.9 -23.9
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Apport of HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C	0 0 0 242 0 0 0 0 219 408 0 416 400 488 501 107 110 97 66	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.6 16.7 1	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 3.3 4.8 11.4 3 3.2 1.3 1.8 1.0 0.0 -74.9
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	400 kV 220 kV Export of HVDC Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI 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	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 0 1638 0 0 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.6 23.9 0.0 19.0 1	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -3.3 -4.8 -11.4 -3 -3.2 -1.3 -1.8 -1.0 -74.9 -23.9 -0.0
33 34 35 36 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 50 51 52	400 kV 220 kV Export of HVDC Apport of HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI ZERDA-KANKROLI 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	D/C D/C D/C 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 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 0 1638 0 0 0 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -3.3 -4.8 -11.4 -3 -3.2 -1.3 -1.8 -0.0 -74.9 -23.9 -0.0 -14.5
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49 49	400 kV 220 kV Export of HVDC TOTAL T	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 WARDHA-NIZAMABAD	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 28 0 0 0 0 WR-NR 995 0 1681 2230	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 18.6 25.0 16.7 2.5 0.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -34.9 -3.3 -1.8 -1.0 -74.9 -23.9 -0.0 -14.5 -34.3
nport/E 29 30 31 nport/E 32 nport/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 nport/E 50 51 52 53 54	400 kV 220 kV Export of HVDC TOTAL T	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI ZERDA-KANKROLI 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 WARDHA-NIZAMABAD KOLHAPUR-KUDGI	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 0 1638 0 0 WR-NR 995 0 1681 2230 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.6 25.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -3.3 -3.3 -3.8 -1.8 -3.0 -3.9 -3.9 -3.9 -3.9 -3.9 -3.9 -3.9 -3.9
port/E 29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49 49 40 47 50 51 52 53 54	400 kV 220 kV Export of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI 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-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 0 1638 0 0 WR-NR 995 0 1681 2230 0 0 0 0 0 58	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 34.9 0.0 0.0 0.0 0.0 0.0 0.0 18.6 23.9 0.0 16.7 2.5 0.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -14.7 -14.7 -14.7 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -34.9 -3.3 -1.8 -1.0 -74.9 -23.9 -0.0 -14.5 -34.3 -
port/E 29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49 49 40 40 41 45 55 51 55 56	400 kV 220 kV Export of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR IABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-AMBEWADI XELDEM-AMBEWADI	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 107 110 97 66 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 0 1638 0 0 0 WR-NR 995 0 1681 2230 0 0 0 0 58	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.6 23.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -2 -15.3 -14.7 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -34.9 -3.3 -1.8 -1.0 -74.9 -23.9 -14.5 -34.3 -13.4 -0.0 -0.0
port/E 29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 49 49 40 41 55 51 55 56	400 kV 220 kV Export of HVDC Apport of HVDC LINK Apport of HVDC HVDC LINK Apport of HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR IABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI 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 WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-AMBEWADI XELDEM-AMBEWADI	D/C	0 0 0 242 0 0 0 219 408 0 416 400 488 501 110 97 66 0 0	512 375 115 ER-NER 702 NER-NR 1002 0 981 734 1164 307 0 1638 0 0 1638 0 0 0 WR-NR 995 0 1681 2230 0 0 0 0 58	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.1 5.4 1.8 15.3 14.7 14.7 14.7 23.9 0.0 15.6 25.0 16.7 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.6 23.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-8 -5 -15.3 -14.7 -14.7 -14.7 -14.7 -23.9 -6.0 -15.6 -25.0 -16.7 -2.5 -7.6 -34.9 -34.9 -34.9 -1.3 -1.8 -1.0 -74.9 -23.9 -14.5 -34.3