

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर 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: 31st Jan 2019

Τо

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ 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. मुख्य महाप्रबंधक , ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग , शिलोंग 793006 Chief General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - **793006**, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के., २९ , रेस कोर्स क्रॉस रोड, बंगलुरु –५६०००९ Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 30.01.2019.

महोदय/Dear Sir.

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-जनवरी-2019 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 30th January 2019, 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 31-Jan-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	45377	47185	41557	18427	2408	154954
Peak Shortage (MW)	1084	0	0	0	56	1140
Energy Met (MU)	949	1086	908	368	42	3354
Hydro Gen (MU)	119	25	66	20	7	238
Wind Gen (MU)	11	23	46			80
Solar Gen (MU)*	18.64	23.4	76.07	1.11	0.04	119
Energy Shortage (MU)	13.3	0.2	0.0	0.0	0.9	14.3
Maximum Demand Met during the day	46746	53779	42273	18943	2427	158041
(MW) & time (from NLDC SCADA)	18:31	10:41	07:39	19:11	18:22	18:52

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	0.038	0.00	0.07	6.81	6.88	77.67	15.45

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	5615	0	112.8	32.3	-0.1	79	0.0
	Haryana	6708	0	129.1	76.6	0.9	256	0.0
	Rajasthan	12263	0	237.0	66.2	-0.2	191	0.0
	Delhi	4295	0	72.7	58.2	-0.8	173	0.0
NR	UP	13263	500	272.5	102.0	1.0	232	1.6
	Uttarakhand	2156	0	40.2	27.0	0.5	199	0.0
	HP	1682	0	31.5	25.4	0.9	146	0.0
	J&K	2866	716	49.4	46.6	-2.5	499	11.7
	Chandigarh	240	0	4.0	3.9	0.1	60	0.0
	Chhattisgarh	3456	0	76.1	34.2	-0.2	250	0.2
	Gujarat	15018	0	321.8	94.6	1.8	460	0.0
	MP	12946	0	235.5	134.1	0.1	488	0.0
14/15	Maharashtra	20314	0	405.3	103.8	0.8	730	0.0
WR	Goa	452	0	11.5	10.8	0.1	48	0.0
	DD	316	0	7.0	6.8	0.2	42	0.0
	DNH	787	0	18.1	18.1	0.0	42	0.0
	Essar steel	518	0	11.0	10.6	0.4	284	0.0
	Andhra Pradesh	7168	0	151.5	55.2	-0.1	849	0.0
	Telangana	8115	0	162.6	55.7	-0.1	603	0.0
SR	Karnataka	11189	0	211.1	76.1	-0.5	481	0.0
3N	Kerala	3664	0	70,9	55.2	0.8	218	0.0
	Tamil Nadu	14063	0	304.7	148.0	-1.4	462	0.0
	Pondy	365	0	7.2	7.4	-0.2	20	0.0
	Bihar	4157	0	74.7	68.0	1.1	460	0.0
	DVC	3123	0	64.5	-46.2	-0.6	396	0.0
ER	Jharkhand	1059	0	24.3	17.6	0.2	169	0.0
EN	Odisha	3851	0	76.4	29.0	-0.9	267	0.0
	West Bengal	6950	0	126.8	23.7	1.7	309	0.0
	Sikkim	102	0	1.6	1.6	-0.1	18	0.0
	Arunachal Pradesh	119	3	2.2	2.0	0.1	36	0.0
	Assam	1386	32	23.7	18.1	1.1	114	0.8
	Manipur	195	2	2.9	2.8	0.1	45	0.0
NER	Meghalaya	350	0	5.9	5.0	-0.2	72	0.0
	Mizoram	98	2	1.9	1.6	0.1	12	0.0
	Nagaland	126	3	2.1	1.9	0.0	33	0.0
	Tripura	226	0	3.7	3,6	0.5	69	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.2	-7.1	-15.3
Day peak (MW)	40.3	-319.0	-814.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	178.5	-207.6	107.6	-81.6	2.7	-0.3
Actual(MU)	178.8	-211.9	100.1	-74.8	3.4	-4.3
O/D/U/D(MU)	0.3	-4.3	-7.5	6.8	0.7	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3660	13616	7322	1720	130	26447
State Sector	10540	15429	7990	3955	50	37964
Total	14200	29045	15312	5675	179	64411

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	543	1164	480	449	9	2644
Lignite	20	16	44	0	0	80
Hydro	119	25	66	20	7	238
Nuclear	24	30	32	0	0	86
Gas, Naptha & Diesel	29	36	19	0	27	111
RES (Wind, Solar, Biomass & Others)	59	50	169	1	0	279
Total	793	1321	809	470	43	3437
Share of RES in total generation (%)	7.44	3.76	20.89	0.25	0.09	8.12
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.43	7.96	32.96	4.59	16.66	17.53

H. Diversity Factor
All India Demand Diversity Factor
1.039
Diversity factor = Sum of regional maximum demands / All India maximum demand

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

		INTE	R-REGIO	ONAL EX	CHANGES	Date of 1	Reporting :	31-Jan-19
							portung i	Import=(+ve) /Export =(-ve)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	for NET (MU) NET (MU)
Import/E	•	ER (With NR)						
1	765kV	GAYA-VARANASI	D/C	0	752	0.0	11.5	-11.5
3	703KV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	0	345 369	0.0	4.3 6.1	-4.3 -6.1
4	THE C	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	147	0.0	3.7	-3.7
6		PUSAULI-VARANASI	S/C	0	102	0.0	1.8	-1.8
7		PUSAULI -ALLAHABAD	S/C	0	103	0.0	1.7	-1.7
8	400 1-37	MUZAFFARPUR-GORAKHPUR	D/C	0	580	0.0	8.1	-8.1
10	400 kV	PATNA-BALIA BIHARSHARIFF-BALIA	Q/C D/C	0	950 356	0.0	17.8 5.3	-17.8 -5.3
11		MOTIHARI-GORAKHPUR	D/C	0	406	0.0	7.6	-7.6
12	1	BIHARSHARIFF-VARANASI	D/C	22	278	0.0	3.4	-3.4
13	220 kV	PUSAULI-SAHUPURI	S/C	0	137	0.0	2.6	-2.6
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	25	0	0.6	0.0	0.6
16	102 111	KARMANASA-SAHUPURI	S/C	36	0	0.6	0.0	0.6
17		KARMANASA-CHANDAULI	S/C	0	0 ED ND	0.0	0.0	0.0
Import/E	Export of	ER (With WR)			ER-NR	1.2	73.8	-72.7
_	Aport OI		D/C	1657		27.5	0.0	27.5
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1657	0	27.5	0.0	27.5
19	1	NEW RANCHI-DHARAMJAIGARH	D/C	353	493	0.0	1.1	-1.1
20	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	257	185 114	1.3	0.0	1.3
22		BUDHIPADAR-RAIGARH	S/C	14	53	0.0	0.4	-0.4
23	220 kV	BUDHIPADAR-KORBA	D/C	102	2	1.4	0.0	1.4
					ER-WR	31.3	1.6	29.7
Import/E		ER (With SR)			•			_
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1500.0	0.0	24.9	-24.9
25	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	672.0	0.0	16.0	-16.0
26 27		TALCHER I/C	D/C D/C	0.0	1985.0 539.0	0.0	48.0 7.1	-48.0 -7.1
28	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
20	220 R V	D. ILLINIEL I CT I EX DILLING	5,0	1.0	ER-SR	0.0	88.9	-88.9
Import/F	Export of	ER (With NER)						•
29	400 kV	BINAGURI-BONGAIGAON	D/C	278	0	4.7	0.0	5
30	100 11 1			389	0	7.0	0.0	_
		ALIPURDUAR-BONGAIGAON	D/C			7.0	0.0	7
31	220 kV	ALIPURDUAR-SALAKATI	D/C D/C	85	0	1.3	0.0	1
31	1	ALIPURDUAR-SALAKATI	+					1
31 Import/E	Export of		+	85	0 ER-NER	1.3	0.0	1 13.0
31 Import/E	Export of	ALIPURDUAR-SALAKATI NER (With NR)	+		0	1.3 13.0	0.0	1 13.0
31 Import/E 32	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR)	+	85	0 ER-NER	1.3	0.0	1 13.0
31 Import/E 32	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA	+	85	0 ER-NER	1.3 13.0	0.0	1 13.0
31 Import/E 32 Import/E 33 34	Export of HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C - D/C D/C	85 662 0 242	0 ER-NER 0 NER-NR 1356 0	1.3 13.0 16.0 16.0 0.0 6.0	0.0 0.0 0.0 0.0 32.4 0.0	1 13.0 16.0 16.0 16.0 -32.4 6.0
31 Import/E 32 Import/E 33 34 35	Export of HVDC Export of	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	662 0 242 0	0 ER-NER 0 NER-NR 1356 0 1082	1.3 13.0 16.0 16.0 0.0 6.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7
31 Import/E 32 Import/E 33 34 35 36	Export of HVDC Export of	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	85 662 0 242 0	0 ER-NER 0 NER-NR 1356 0 1082 1130	1.3 13.0 16.0 16.0 0.0 6.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9
31 Import/E 32 Import/E 33 34 35 36 37	Export of HVDC HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C D/C D/C D/C D/C D/C D/C	85 662 0 242 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3
31 Import/E 32 Import/E 33 34 35 36 37 38	Export of HVDC HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C D/C D/C D/C D/C D/C D/C D/C	662 0 242 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9
31 Import/E 32 Import/E 33 34 35 36 37 38 39	Export of HVDC HVDC	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	D/C D/C D/C D/C D/C D/C D/C D/C	0 242 0 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8
31 Import/E 32 Import/E 33 34 35 36 37 38	Export of HVDC HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C D/C D/C D/C D/C D/C D/C D/C	0 242 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40	Export of HVDC Export of HVDC 765 kV	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 D/C D/C D/C D/C D/C D/C D/C	0 242 0 0 0 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0 0.0 10.8	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41	Export of HVDC HVDC	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI	D/C D/C D/C D/C D/C D/C D/C S/C S	0 242 0 0 0 0 0 0 605 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0 0.0 10.8 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3
31 Import/F 32 Import/F 33 34 35 36 37 38 39 40 41 42	Export of HVDC Export of HVDC 765 kV	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL	D/C D/C D/C D/C D/C D/C D/C S/C S	0 242 0 0 0 0 0 0 605 0 167 87	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45	Export of HVDC Export of HVDC 765 kV	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C D/C D/C D/C D/C D/C D/C D/C	0 242 0 0 0 0 0 0 605 0 167 87 969 224 69	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46	Export of HVDC Export of HVDC 765 kV	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	D/C D/C D/C D/C D/C D/C D/C S/C S	85 662 0 242 0 0 0 0 605 0 167 87 969 224 69 0	0 RR-NR 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32	1.3 13.0 16.0 16.0 0.0 6.0 0.0 0.0 0.0 0.0 10.8 0.0 0.3 0.0 21.1 0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of HVDC Export of HVDC 765 kV	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 S/C S	85 0 242 0 0 0 0 605 0 167 87 969 224 69 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0	1.3 13.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Export of HVDC Export of HVDC 765 kV 400 kV	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	D/C D/C D/C D/C D/C D/C D/C S/C S	0 242 0 0 0 0 0 605 0 167 87 969 224 69 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.3 0.0 21.1 0 0.7 0.0 0.3	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of HVDC Export of HVDC 765 kV	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 S/C S	85 0 242 0 0 0 0 605 0 167 87 969 224 69 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0.7 0.0 1.2 0.3 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Export of HVDC Export of HVDC 765 kV 400 kV	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	D/C D/C D/C D/C D/C D/C D/C S/C S	0 242 0 0 0 0 0 605 0 167 87 969 224 69 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.3 0.0 21.1 0 0.7 0.0 0.3	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Export of HVDC Export of HVDC 765 kV 400 kV	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	D/C D/C D/C D/C D/C D/C D/C S/C S	0 242 0 0 0 0 0 605 0 167 87 969 224 69 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0.7 0.0 1.2 0.3 0.0	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR)	D/C D/C D/C D/C D/C D/C D/C D/C	0 242 0 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0 WR-NR	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0 17.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0 0.7 -0.5 1.2 0.2 0.0 -127.3
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	D/C D/C D/C D/C D/C D/C D/C S/C S	85 662 0 242 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0 WR-NR	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1 13.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0 0.7 -0.5 1.2 0.2 0.0 -127.3
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53	Export of HVDC Export of HVDC 765 kV 220 kV 132kV Export of HVDC LINK 765 kV	ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-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 D/C D/C D/C D/C D/C D/C D/C	85 662 0 242 0 0 0 0 0 605 0 167 87 969 224 69 0 0 107 48 0 0 0 152	0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.1 0.0 167.9 23.0 0.0 23.0 0.0 23.0 0.0 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54	Export of HVDC Export of HVDC 765 kV 220 kV 132kV Export of HVDC LINK 765 kV	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-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 D/C D/C D/C D/C D/C D/C D/C	85 0 242 0 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 152 0 1024	0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.1 0.0 167.9 23.0 0.0 20.1 25.8 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8 14.9
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54 55	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	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 KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C D/C	85 662 0 242 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 0 152 0 1024 0	0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1 13.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54 555	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	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-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C	85 0 242 0 0 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 152 0 1024 0 0	0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.1 0.0 167.9 23.0 0.0 17.0 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8 14.9 0.0 -1.2
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54 55	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	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 KOLHAPUR-CHIKODI	D/C D/C D/C D/C D/C D/C D/C D/C	85 662 0 242 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 0 152 0 1024 0	0	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 0.0 0.0 11.2 0.3 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.1 0.0 167.9 23.0 0.0 0.0 167.9 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8 14.9 0.0 -1.2 0.8
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54 55 56	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C	85 0 242 0 0 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 152 0 1024 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0 WR-NR 1002 0 1928 1964 0 0 0 70 50 WR-SR	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 21.1 0.7 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.1 0.0 167.9 23.0 0.0 17.0 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8 14.9 0.0 -1.2
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54 55 56 57	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	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-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C	85 0 242 0 0 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 152 0 1024 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0 WR-NR 1002 0 1928 1964 0 0 0 70 50 WR-SR	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 0.0 0.0 11.2 0.3 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.1 0.0 167.9 23.0 0.0 0.0 167.9 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8 14.9 0.0 -1.2 0.8 -54.3
31 Import/E 32 Import/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 Import/E 50 51 52 53 54 55 56	Export of HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	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 KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C	85 0 242 0 0 0 0 0 0 0 605 0 167 87 969 224 69 0 107 48 0 0 152 0 1024 0 0 0	0 ER-NER 0 NER-NR 1356 0 1082 1130 1177 698 0 1212 147 292 0 163 15 32 0 30 0 WR-NR 1002 0 1928 1964 0 0 0 70 50 WR-SR	1.3 13.0 16.0 16.0 16.0 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 0.0 0.0 11.2 0.3 0.0 1.2 0.3 0.0 40.6	0.0 0.0 0.0 0.0 0.0 0.0 32.4 0.0 26.7 38.9 17.3 23.9 0.0 25.1 0.0 0.0 0.0 0.0 0.1 0.0 167.9 23.0 0.0 0.0 167.9 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 13.0 16.0 16.0 16.0 16.0 -32.4 6.0 -26.7 -38.9 -17.3 -23.9 10.8 -25.1 0.3 -3.0 21.1 0.7 -0.5 1.2 0.2 0.0 -127.3 -23.0 0.0 -20.1 -25.8 14.9 0.0 -1.2 0.8