

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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 15th Apr 2019

To,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, 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 ७९३००६ 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 14.04.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-अप्रैल-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 14th April 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 15-Apr-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46535	46848	42470	20432	2385	158670
Peak Shortage (MW)	538	0	0	0	99	637
Energy Met (MU)	978	1193	1038	438	41	3688
Hydro Gen (MU)	195	27	74	63	3	362
Wind Gen (MU)	15	49	29			92
Solar Gen (MU)*	22.85	25	85.72	2.54	0.04	136
Energy Shortage (MU)	11.1	0.0	0.0	0.0	1.5	12.6
Maximum Demand Met during the day	46870	52438	45337	21272	2406	164386
(MW) & time (from NI DC SCADA)	10.50	00.19	22,20	21.40	10.50	22.50

B. Frequency Profile (%)
Region
All India FVI <49.7 49.7-49.8 49.8-49.9 49.9-50.05 > 50.05 0.033 0.00 0.41 5.10 5.51 19.24

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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	6708	0	114.7	40.1	-1.1	25	0.0
	Haryana	6312	0	116.6	84.6	-1.1	267	0.0
	Rajasthan	9432	0	213.0	65.5	-0.7	241	0.0
	Delhi	4163	0	85.5	71.1	-0.5	137	0.0
NR	UP	17898	0	340.1	152.4	-0.3	570	0.5
	Uttarakhand	1719	0	35.7	14.5	0.2	101	0.2
	HP	1216	1	24.8	7.2	-0.4	95	0.0
	J&K	2153	538	44.2	34.8	-0.8	192	10.5
	Chandigarh	175	0	3.4	4.1	-0.7	12	0.0
	Chhattisgarh	4444	0	102.5	48.3	-3.6	273	0.0
	Gujarat	16409	0	369.0	118.1	3.4	513	0.0
	MP	9714	0	211.1	95.3	-1.1	465	0.0
WR	Maharashtra	21170	0	468.4	135.2	-3.0	439	0.0
WK	Goa	513	0	11.8	10.4	0.8	60	0.0
	DD	318	0	7.3	6.9	0.4	37	0.0
	DNH	780	0	18.3	18.4	-0.1	59	0.0
	Essar steel	255	0	4.8	5.7	-0.9	239	0.0
	Andhra Pradesh	8572	0	192.4	69.3	0.4	626	0.0
	Telangana	8692	0	198.2	64.9	0.1	413	0.0
SR	Karnataka	11174	0	223.6	73.3	0.3	648	0.0
JN.	Kerala	4204	0	83.3	61.8	1.3	173	0.0
	Tamil Nadu	14250	0	332.8	170.8	-0.9	466	0.0
	Pondy	383	0	8.1	8.3	-0.3	60	0.0
	Bihar	4570	0	85.3	80.7	-0.4	250	0.0
	DVC	3139	0	69.0	-37.1	-0.4	150	0.0
ER	Jharkhand	1027	0	24.3	19.1	-0.4	140	0.0
EK	Odisha	4548	0	93.6	34.8	1.8	300	0.0
	West Bengal	8196	0	164.5	44.7	3.6	400	0.0
	Sikkim	84	0	1.1	1.5	-0.4	20	0.0
	Arunachal Pradesh	117	2	2.0	2.5	-0.4	28	0.0
	Assam	1374	42	23.6	18.9	1.1	183	1.0
	Manipur	170	3	2.5	2.4	0.0	31	0.0
NER	Meghalaya	297	24	5.4	4.4	-0.2	68	0.4
	Mizoram	82	1	1.7	1.5	0.1	19	0.0
	Nagaland	120	2	2.1	1.9	0.2	25	0.0
	Tripura	277	4	3.9	3.2	-0.3	59	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.2	-6.1	-20.4
Day peak (MW)	672.3	-356.4	-1008.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	171.4	-243.2	116.1	-44.7	0.4	0.0
Actual(MU)	153.7	-249.1	138.0	-46.2	0.6	-3.0
O/D/U/D(MU)	-17.7	-5.9	21.9	-1.4	0.2	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5700	11569	6252	1850	486	25857
State Sector	10980	11393	4820	2895	50	30138
Total	16680	22962	11072	4745	536	55994

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	507	1256	576	440	11	2791
Lignite	19	17	57	0	0	93
Hydro	195	27	74	63	3	362
Nuclear	22	30	35	0	0	87
Gas, Naptha & Diesel	30	48	16	0	30	124
RES (Wind, Solar, Biomass & Others)	71	79	153	3	0	305
Total	844	1457	911	506	45	3763
Share of RES in total generation (%)	8 38	5.42	16.77	0.51	0.00	Q 11

Share of RES in total generation (%)	8.38	5.42	16.77	0.51	0.09	8.11
Share of Non-fossil fuel (Hydro, Nuclear and	34.11	0.21	28.75	13.03	7.71	20.06
RES) in total generation (%)	34.11	9.31	20.75	15.05	7.71	20.00

H. Diversity Factor
All India Demand Diversity Factor
1.024
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}.$

		INT	ER-REGI	ONAL EXCH	ANGES	Date of 1	Reporting :	15-Apr-19
								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)
Import/E		ER (With NR)						
1	765kV	GAYA-VARANASI	D/C	47	466 224	0.0	5.7	-5.7
3	705KV	SASARAM-FATEHPUR GAYA-BALIA	S/C S/C	31 0	283	0.0	2.6	-2.6 -3.7
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5	HVDC	PUSAULI B/B	S/C	0	50	0.0	1.3	-1.3
6		PUSAULI-VARANASI	S/C	0	64	0.0	1.0	-1.0
7		PUSAULI -ALLAHABAD	S/C	6	33	0.0	0.1	-0.1
9	400 1-37	MUZAFFARPUR-GORAKHPUR	D/C	38 0	971	0.0	12.3	-12.3
10	400 kV	PATNA-BALIA	Q/C D/C	9	896 327	0.0	13.5	-13.5 -4.2
11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	D/C D/C	0	309	0.0	5.3	-5.3
12		BIHARSHARIFF-VARANASI	D/C	5	0	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	175	0.0	3.3	-3.3
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16	132 KV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	2	0	0.0	0.0	0.0
		DD AVIA TVE			ER-NR	0.6	52.9	-52.4
Import/E	xport of	ER (With WR)	1 1					
18		JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1799	0	32.9	0.0	32.9
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	575	162	5.0	0.0	5.0
20		JHARSUGUDA-DURG	D/C	116	77	0.5	0.0	0.5
21	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	163 221	96 29	0.7 2.2	0.0	0.7 2.2
22		BUDHIPADAR-RAIGARH	S/C	0	112	0.0	1.8	-1.8
24	220 kV	BUDHIPADAR-KORBA	D/C	164	0	3.0	0.0	3.0
			1		ER-WR	44.2	1.8	42.4
Import/E	Export of	ER (With SR)						
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1758.0	0.0	34.0	-34.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	687.0	0.0	12.8	-12.8
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2455.0	0.0	46.6	-46.6
28	400 kV	TALCHER-I/C	D/C	678.0	752.0	0.0	3.4	-3.4
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
Import/E	Export of	ER (With NER)			ER-SR	0.0	93.5	-93.5
30 30	export of	BINAGURI-BONGAIGAON	D/C	368	28	5.3	0.0	5
31	400 kV	ALIPURDUAR-BONGAIGAON	D/C	468	0	7.0	0.0	7
32	220 kV	ALIPURDUAR-SALAKATI	D/C	85	14	1.0	0.0	1
					ER-NER	13.3	0.0	13.3
Import/F	Export of	NER (With NR)						
, w. L.	F 7 01	1		655		13.8		13.8
33	HVDC	BISWANATH CHARIALI-AGRA	-		0		0.0	
33	HVDC	BISWANATH CHARIALI-AGRA	-		0 NER-NR		0.0	13.8
33	HVDC	BISWANATH CHARIALI-AGRA WR (With NR)	. D/C	0	NER-NR	13.8	0.0	13.8
33 Import/E 34	HVDC Export of	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C	0 242	NER-NR 1003	0.0	23.7	-23.7
33 Import/E 34 35	HVDC Export of	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C	242	1003 0	0.0	23.7 0.0	-23.7 6.0
33 Import/E 34	HVDC Export of	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	+		NER-NR 1003	0.0	23.7	-23.7
33 Import/E 34 35 36	HVDC Export of	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG	D/C D/C	242 0	1003 0 1361	0.0 6.0 0.0	23.7 0.0 31.6	-23.7 6.0 -31.6
33 Import/E 34 35 36 37	HVDC Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA	D/C D/C D/C	242 0 0	NER-NR 1003 0 1361 2287	0.0 6.0 0.0 0.0	23.7 0.0 31.6 35.1	-23.7 6.0 -31.6 -35.1
33 Import/E 34 35 36 37 38	HVDC Export of	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	242 0 0 0	NER-NR 1003 0 1361 2287 1032	0.0 6.0 0.0 0.0 0.0	23.7 0.0 31.6 35.1 17.3	-23.7 6.0 -31.6 -35.1 -17.3
33 Import/E 34 35 36 37 38 39	HVDC Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI	D/C D/C D/C D/C D/C D/C	242 0 0 0 0	1003 0 1361 2287 1032 723	0.0 6.0 0.0 0.0 0.0 0.0 0.0	23.7 0.0 31.6 35.1 17.3 20.7	-23.7 6.0 -31.6 -35.1 -17.3 -20.7
33 Import/E 34 35 36 37 38 39 40	HVDC Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI	D/C D/C D/C D/C D/C S/C	242 0 0 0 0 0 0 486 0 528	1003 0 1361 2287 1032 723 0	0.0 6.0 0.0 0.0 0.0 0.0 0.0 9.6	23.7 0.0 31.6 35.1 17.3 20.7 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6
33 Import/E 34 35 36 37 38 39 40 41 42 43	HVDC Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI	D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C	242 0 0 0 0 0 486 0 528 217	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18	0.0 6.0 0.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0	-23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8
33 Import/E 34 35 36 37 38 39 40 41 42 43 44	HVDC Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	242 0 0 0 0 0 486 0 528 217 94	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104	0.0 6.0 0.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	HVDC Export of HVDC - 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	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	242 0 0 0 0 486 0 528 217 94 963	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0	0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45	HVDC Export of HVDC - 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C D/C S/C S/C D/C S/C S/C D/C S/C S/C S/C S/C	242 0 0 0 0 486 0 528 217 94 963 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47	HVDC Export of HVDC - 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA	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	242 0 0 0 0 486 0 528 217 94 963 0 47	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0 0.1	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	HVDC Export of HVDC - 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	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	242 0 0 0 0 486 0 528 217 94 963 0 47	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	HVDC Export of HVDC - 765 kV - 400 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	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	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0	0.0 6.0 0.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 0.0 2 0.4 1.1	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	HVDC Export of HVDC - 765 kV - 400 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	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	242 0 0 0 0 486 0 528 217 94 963 0 47	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	HVDC Export of HVDC - 765 kV - 400 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	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	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0.1 0.0 0.9 0.2	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	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	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA 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/C S/C S/C S/C S/C S/C S/C S/C S	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 14441 327 18 104 0 342 24 76 0 27 0 WR-NR	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8	0.0 23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 0.0 159.9	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC LINK	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR	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	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 43.8	0.0 23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 0.0 159.9	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 56 51 Import/E 52 53 54 55	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC LINK - 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARI-BANASKANTHA 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 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	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8	0.0 23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 0.0 159.9 11.3 0.0 39.0 41.9	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC LINK	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-MOTAK 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0.1 0.0 0.9 0.2 0.0 43.8	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 0.0 159.9 11.3 0.0 39.0 41.9 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57	HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-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 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 S/C S/C S/C S	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100 0	13.8 0.0 6.0 0.0 0.0 0.0 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 0.0 0.1 0.0 159.9 11.3 0.0 39.0 41.9 0.0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9 0.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	HVDC Export of HVDC - 765 kV - 400 kV - 220 kV - 132kV Export of HVDC LINK - 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI FONDA-AMBEWADI	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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100 0 0	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 159.9 11.3 0.0 39.0 41.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9 0.0 0.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57	HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-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 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 S/C S/C S/C S	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100 0 0 60	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8 0.0 0.0 0.0 0.0 1.3	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 159.9 11.3 0.0 39.0 41.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9 0.0 0.0 1.3
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA 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 S/C S/C	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100 0 0 60 WR-SR	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 159.9 11.3 0.0 39.0 41.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9 0.0 0.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58 59	HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI TR	D/C D/C D/C D/C S/C S/C	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100 0 0 60 WR-SR	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8 0.0 0.0 0.0 0.0 1.3	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 159.9 11.3 0.0 39.0 41.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.2 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9 0.0 0.0 1.3 -87.0
33 Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/E 52 53 54 55 56 57 58	HVDC Export of HVDC 765 kV 400 kV 132kV Export of HVDC LINK 765 kV	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITORGARH-BANASKANTHA 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 S/C S/C	242 0 0 0 0 486 0 528 217 94 963 0 47 0 65 38 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	NER-NR 1003 0 1361 2287 1032 723 0 1441 327 18 104 0 342 24 76 0 27 0 WR-NR 478 0 2517 2290 100 0 0 60 WR-SR	13.8 0.0 6.0 0.0 0.0 0.0 0.0 9.6 0.0 1.8 2.8 0.3 22.0 0 0.1 0.0 0.9 0.2 0.0 43.8 0.0 0.0 0.0 0.0 1.3	23.7 0.0 31.6 35.1 17.3 20.7 0.0 28.3 0.0 0.0 0.0 2 0.4 1.1 0.0 0.1 159.9 11.3 0.0 39.0 41.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13.8 -23.7 6.0 -31.6 -35.1 -17.3 -20.7 9.6 -28.3 1.8 2.8 0.3 22.0 -2 -0.2 -1.1 0.9 0.0 -116.1 -11.3 0.0 -39.0 -41.9 3.9 0.0 0.0 1.3