

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: 16th Sep 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 15.09.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-सितंबर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 15th Sep 2019, is available at the NLDC website.

धन्यवाद,

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

Date of Reporting Report for previous day 16-Sep-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	56669	42455	37711	22327	2650	161812
Peak Shortage (MW)	2340	0	0	0	209	2549
Energy Met (MU)	1308	965	882	466	50	3672
Hydro Gen (MU)	328	113	163	145	23	773
Wind Gen (MU)	17	86	98			202
Solar Gen (MU)*	23.82	11.5	70.25	2.13	0.03	108
Energy Shortage (MU)	13.4	0.0	0.0	0.0	3.9	17.2
Maximum Demand Met during the day	59703	44175	37602	22813	2716	163333
(MW) & time (from NLDC SCADA)	22:14	19:15	09:55	20:43	18:36	19:43

B. Frequency Profile (%) Region All India FVI <49.7 49.7-49.8 49.8-49.9 <49.9 49.9-50.05 > 50.05 0.027

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	11020	0	248.8	133.3	-0.9	85	0.0
	Haryana	9412	0	200.9	138.5	0.4	219	0.0
	Rajasthan	10476	0	237.1	79.6	-0.3	328	0.0
NR	Delhi	5795	0	116.2	93.5	0.0	255	0.0
	UP	19252	880	393.1	173.0	1.6	599	3.9
	Uttarakhand	1802	0	38.5	13.9	-0.2	156	0.0
	HP	1345	0	28.7	1.5	-1.2	44	0.0
	J&K	2141	535	39.7	18.5	-1.8	151	9.4
	Chandigarh	275	0	5.5	6.0	-0.5	3	0.0
	Chhattisgarh	4159	0	93.9	39.8	1.9	314	0.0
	Gujarat	12361	0	280.1	75.0	1.4	525	0.0
	MP	7733	0	166.2	66.8	-2.4	231	0.0
WR	Maharashtra	17012	0	382.4	129.6	-0.6	437	0.0
WK	Goa	541	0	11.8	10.1	1.1	49	0.0
	DD	294	0	6.8	6.5	0.3	24	0.0
	DNH	765	0	18.2	18.3	-0.1	59	0.0
	Essar steel	320	0	5.8	5.8	0.0	296	0.0
	Andhra Pradesh	7753	0	175.6	31.7	-0.9	450	0.0
	Telangana	8685	0	189.3	41.0	-0.9	578	0.0
SR	Karnataka	10095	0	185.5	41.8	-0.2	495	0.0
3N	Kerala	3180	0	63.1	42.7	1.5	275	0.0
	Tamil Nadu	11955	0	262.3	110.5	-1.9	496	0.0
	Pondy	327	0	6.8	7.2	-0.4	33	0.0
	Bihar	5644	0	108.6	105.6	-1.4	100	0.0
	DVC	2918	0	63.1	-19.7	0.5	150	0.0
ER	Jharkhand	1245	0	26.2	17.7	-1.0	50	0.0
Liv	Odisha	5094	0	102.8	26.9	1.6	473	0.0
	West Bengal	8356	0	164.9	64.1	0.2	400	0.0
	Sikkim	75	0	0.7	1.0	-0.4	20	0.0
	Arunachal Pradesh	109	8	2.1	2.3	-0.3	51	0.0
	Assam	1673	87	30.8	25.7	0.1	127	3.8
	Manipur	162	11	2.5	2.4	0.1	17	0.0
NER	Meghalaya	307	9	5.5	0.7	0.0	71	0.0
	Mizoram	81	7	1.7	0.7	0.8	17	0.0
	Nagaland	119	7	2.2	2.3	-0.3	49	0.0
	Tripura	298	19	4.8	4.8	0.6	89	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	41.4	-5.3	-25.8
Day peak (MW)	1994.7	-363.2	-1115.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	283.4	-220.8	10.4	-65.6	-3.9	3.5
Actual(MU)	283.8	-226.8	7.0	-47.4	-12.3	4.3
O/D/U/D(MU)	0.4	-6.0	-3.4	18.2	-8.4	0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5826	15600	8812	2360	123	32721
State Sector	6450	20736	9180	6200	50	42615
Total	12276	36335	17992	8560	173	75336
· · · · · · · · · · · · · · · · · · ·						

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	579	895	400	381	11	2266
Lignite	21	11	45	0	0	77
Hydro	328	113	163	145	23	773
Nuclear	27	28	60	0	0	116
Gas, Naptha & Diesel	39	45	16	0	26	125
RES (Wind, Solar, Biomass & Others)	56	107	212	2	0	377
Total	1050	1200	896	529	59	3733

Share of RES in total generation (%)	5.33	8.95	23.64	0.41	0.05	10.11
Share of Non-fossil fuel (Hydro, Nuclear and	39.19	20.73	48.57	27.92	38.85	33,91
RES) in total generation (%)						

H. Diversity Factor All India Demand Diversity Factor

1.023 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}.$

		<u>IN</u>	TER-REGI	ONAL EXCH	ANGES	Date of 1	Reporting :	16-Sep-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)
	Export of	ER (With NR)	D/G	124	427	0.0	2.5	2.5
2	765kV	GAYA-VARANASI SASARAM-FATEHPUR	D/C S/C	134 279	437 54	0.0 2.3	3.6 0.0	-3.6 2.3
3		GAYA-BALIA	S/C	0	393	0.0	5.2	-5.2
4	HVDC	ALIPURDUAR-AGRA	-	0	1401	0.0	33.8	-33.8
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
6 7	1	PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	201 62	0.0	4.0 0.7	-4.0 -0.7
8	1	MUZAFFARPUR-GORAKHPUR	D/C	0	803	0.0	10.6	-10.6
9	400 kV	PATNA-BALIA	Q/C	0	890	0.0	14.2	-14.2
10	1	BIHARSHARIFF-BALIA	D/C	48	220	0.0	2.9	-2.9
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	242	121	1.0	0.0	1.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	199	0.0	3.5	-3.5
14	_	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3
16 17	4	KARMANASA-SAHUPURI	S/C S/C	0	0	0.0	0.0	0.0
1 /	<u> </u>	KARMANASA-CHANDAULI	S/C	U	ER-NR	3.6	83.3	-79.7
Import/F	Export of	ER (With WR)			T-14K	3.0	03.3	-12.1
		JHARSUGUDA-DHARAMJAIGARH	0/0	1215	0	19.1	0.0	19.1
	19 765 kV 1		Q/C					7.7
	20	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	D/C D/C	967 306	0	14.9 4.4	0.0	14.9 4.4
		JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	Q/C	336	0	4.4	0.0	4.4
22	400 kV	RANCHI-SIPAT	D/C	345	0	5.4	0.0	5.4
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	110	0.0	1.7	-1.7
24	220 K V	BUDHIPADAR-KORBA	D/C	76	0	1.0	0.0	1.0
					ER-WR	49.4	1.7	47.7
	· -	ER (With SR)	1 1		10000			
25	1	ANGUL-SRIKAKULAM	D/C	0.0	1003.0	0.0	14.6	-14.6
26 27	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C D/C	316.0 0.0	990.0	7.4 0.0	0.0 12.5	7.4 -12.5
28	400 kV	TALCHER-KOLAR BIPOLE TALCHER-I/C	D/C D/C	383.0	198.0	6.5	0.0	6.5
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	7.4	27.2	-19.8
Import/E	Export of	ER (With NER)						
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	574	0.0	9.1	-9
31	400 K 1	ALIPURDUAR-BONGAIGAON	D/C	201	96	1.4	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	101	0.0	1.5	-1
T	? 6	NED (WALNE)			ER-NER	1.4	10.6	-9.2
33 33	export of	NER (With NR)		0	603	0.0		-15.1
	HVDC	DICWANATH CHADIALL ACDA		U		0.0		
	HVDC	BISWANATH CHARIALI-AGRA	-			0.0	15.1	ł
	1		-		NER-NR	0.0	15.1 15.1	-15.1
	1	BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	- D/C	0		0.0		ł
Import/E	1	WR (With NR)	D/C D/C	0 454	NER-NR		15.1	-15.1
Import/E	Export of	WR (With NR) CHAMPA-KURUKSHETRA			NER-NR 2000	0.0	15.1 37.6	-15.1 -37.6
34 35	Export of	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA	D/C	454 0 0	2000 0	0.0 12.1 0.0 0.0	37.6 0.0	-15.1 -37.6 12.1
34 35 36 37 38	Export of	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C D/C D/C	454 0 0 0	2000 0 1460 2430 1205	0.0 12.1 0.0 0.0 0.0	37.6 0.0 34.3 42.0 23.6	-15.1 -37.6 12.1 -34.3 -42.0 -23.6
34 35 36 37 38 39	Export of	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	454 0 0 0 0	2000 0 1460 2430 1205 949	0.0 12.1 0.0 0.0 0.0 0.0	37.6 0.0 34.3 42.0 23.6 31.3	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3
34 35 36 37 38 39 40	Export of HVDC	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGG-GWALIOR JABALPUR-ORAI GWALIOR-ORAI	D/C D/C D/C D/C D/C S/C	454 0 0 0 0 0 0 275	2000 0 1460 2430 1205 949 0	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1	37.6 0.0 34.3 42.0 23.6 31.3 0.0	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1
34 35 36 37 38 39 40	Export of HVDC	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 S/C S/C	454 0 0 0 0 0 0 275	2000 0 1460 2430 1205 949 0	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6
34 35 36 37 38 39 40 41 42	Export of HVDC	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA	D/C D/C D/C D/C D/C S/C S/C D/C	454 0 0 0 0 0 0 275 0 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6
34 35 36 37 38 39 40 41 42 43	Export of HVDC	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI	D/C D/C D/C D/C D/C S/C S/C D/C S/C S/C S/C	454 0 0 0 0 0 275 0 0 26	2000 0 1460 2430 1205 949 0 1441 1324	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2
34 35 36 37 38 39 40 41 42 43	Export of HVDC	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL	D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C	454 0 0 0 0 0 275 0 0 26 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260	0.0 12.1 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7
34 35 36 37 38 39 40 41 42 43 44	Export of HVDC - 765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	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	454 0 0 0 0 0 275 0 0 26 0 986	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0	0.0 12.1 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0
34 35 36 37 38 39 40 41 42 43	Export of HVDC - 765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR	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 D/C	454 0 0 0 0 0 275 0 0 26 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260	0.0 12.1 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7
34 35 36 37 38 39 40 41 42 43 44 45	HVDC - 765 kV - 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	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	454 0 0 0 0 0 275 0 0 26 0 986 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444	0.0 12.1 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7
34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of HVDC - 765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	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	454 0 0 0 0 0 275 0 0 26 0 986 0 2	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9
34 35 36 37 38 39 40 41 42 43 44 45 46 47	HVDC 765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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	454 0 0 0 0 275 0 0 26 0 986 0 2	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5
34 35 36 37 38 39 40 41 42 43 44 45 46 47	HVDC 765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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	454 0 0 0 0 275 0 0 26 0 986 0 2 0 56	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 4444 73 86 32	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 -3.0 -7 -0.9 -1.5 -0.0
Import/E 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Export of HVDC - 765 kV - 400 kV - 132kV	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-SAWAI MADHOPUR	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	454 0 0 0 0 275 0 0 26 0 986 0 2 0 5 17	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F	Export of HVDC - 765 kV - 400 kV - 220 kV 132kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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	454 0 0 0 0 275 0 0 26 0 986 0 2 0 5 6 17	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Export of HVDC 765 kV 400 kV 132kV Export of HVDC	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	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	454 0 0 0 0 0 275 0 0 26 0 986 0 2 0 56 17 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 23.5 4.9	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53	Export of HVDC - 765 kV - 400 kV - 220 kV 132kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU	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	454 0 0 0 0 0 275 0 0 26 0 986 0 2 0 56 17 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54	Export of HVDC 765 kV 400 kV 132kV Export of HVDC	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B'B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	454 0 0 0 0 275 0 0 26 0 986 0 2 0 56 17 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 4444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 50 51 Import/F 52 53 54 55	Export of HVDC 765 kV 400 kV 220 kV Export of HVDC LINK 765 kV	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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 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 S/C S/C S/C S/C S/C S/C S/C S/C S	454 0 0 0 0 275 0 0 26 0 986 0 2 0 56 17 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0 -4.9 0.0 10.7 -12.8
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54	HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC LINK	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL V'CHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	454 0 0 0 0 275 0 0 26 0 986 0 2 0 56 17 0 0 1275 19 844	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0
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	220 kV 220 kV 2400 kV 400 kV 400 kV 400 kV 400 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI	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 D/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	454 0 0 0 0 0 275 0 0 26 0 986 0 2 0 0 56 17 0 0 1275 19 844 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0 0.0
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57 58	Export of HVDC 765 kV 400 kV 220 kV Export of HVDC LINK 765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	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	454 0 0 0 0 275 0 0 26 0 986 0 2 0 0 56 17 0 0 1275 19 844 0 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0 0.0 -1.2
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57	220 kV 220 kV 2400 kV 400 kV 400 kV 400 kV 400 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD 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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	454 0 0 0 0 0 275 0 0 26 0 986 0 2 0 0 56 17 0 0 1275 19 844 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0 0.0 -1.2 0.7
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57 58	220 kV 220 kV 2400 kV 400 kV 400 kV 400 kV 400 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGG-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-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 S	454 0 0 0 0 275 0 0 26 0 986 0 2 0 0 56 17 0 0 1275 19 844 0 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR 214 0 324 1056 0 0 0 77 444 WR-SR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0 0.0 -1.2
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57 58 59	220 kV 220 kV 2400 kV 400 kV 400 kV 400 kV 400 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-RUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-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 S	454 0 0 0 0 275 0 0 26 0 986 0 2 0 0 56 17 0 0 1275 19 844 0 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR 214 0 324 1056 0 0 0 77 444 WR-SR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -0.8 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0 0.0 -1.2 0.7 6.4
Import/F 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55 56 57 58	220 kV 220 kV 2400 kV 400 kV 400 kV 400 kV 400 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGG-GWALIOR JABALPUR-ORAI GWALIOR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI XELDEM-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 S	454 0 0 0 0 275 0 0 26 0 986 0 2 0 0 56 17 0 0 1275 19 844 0 0	NER-NR 2000 0 1460 2430 1205 949 0 1441 1324 197 260 0 444 73 86 32 67 0 WR-NR 214 0 324 1056 0 0 0 77 444 WR-SR	0.0 12.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	37.6 0.0 34.3 42.0 23.6 31.3 0.0 29.6 20.6 2.2 3.7 0.0 7 0.9 1.5 0.2 0.8 0.0 235.5	-15.1 -37.6 12.1 -34.3 -42.0 -23.6 -31.3 5.1 -29.6 -20.6 -2.2 -3.7 23.0 -7 -0.9 -1.5 0.0 -195.0 -4.9 0.0 10.7 -12.8 14.0 0.0 -1.2 0.7