

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 21st Feb 2020

To,

- 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. 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.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 20.02.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-फरवरी-2020 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 20th Feb 2020, is available at the NLDC website.

धन्यवाद,

Report for previous day Date of Reporting 21-Feb-20

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44148	51676	44950	17977	2411	161162
Peak Shortage (MW)	363	0	0	0	25	388
Energy Met (MU)	942	1272	1096	368	41	3718
Hydro Gen (MU)	137	47	90	33	6	313
Wind Gen (MU)	39	33	76			148
Solar Gen (MU)*	33.85	27.20	102.03	1.36	0.01	164
Energy Shortage (MU)	8.7	0.0	0.0	0.0	0.7	9.3
Maximum Demand Met during the day (MW) & time	49113	59071	51036	18804	2452	174986
(from NLDC SCADA)	08:16	13:02	08:14	18:58	17:59	09:39

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	0.00	6.28	6.28	69.13	24.58

C. Power Supply Position in States

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	5526	0	110.3	73.6	-2.2	150	0.0
	Haryana	6414	0	127.1	84.6	-1.7	194	0.0
	Rajasthan	13615	0	246.9	63.5	-3.6	278	0.0
NR	Delhi	3693	0	63.6	45.9	-1.2	135	0.0
	UP	14500	0	279.7	120.4	-1.1	681	0.0
	Uttarakhand	1951	0	36.5	17.2	0.0	144	0.0
	HP	1599	0	26.9	19.3	0.5	164	0.0
	J&K(UT) and Ladakh(UT)	2413	603	47.0	40.8	-4.0	229	8.7
	Chandigarh	227	0	3.6	3.4	0.1	22	0.0
	Chhattisgarh	4008	0	88.6	39.8	0.1	298	0.0
	Gujarat	16392	0	363.5	100.0	4.6	779	0.0
	MP	14297	0	271.7	134.1	-2.5	542	0.0
WR	Maharashtra	24110	0	499.8	150.1	-1.2	407	0.0
WK	Goa	538	0	10.9	10.6	-0.2	51	0.0
	DD	339	0	7.6	7.0	0.6	52	0.0
	DNH	796	0	18.5	18.8	-0.3	33	0.0
	Essar steel	784	0	11.1	11.1	0.0	230	0.0
	Andhra Pradesh	9754	0	197.4	62.0	-0.4	431	0.0
	Telangana	12741	0	250.3	136.7	0.5	717	0.0
SR	Karnataka	12642	0	246.6	82.0	-1.1	676	0.0
311	Kerala	3647	0	75.3	57.6	1.6	212	0.0
	Tamil Nadu	14781	0	319.1	163.8	-1.8	510	0.0
	Pondy	372	0	7.5	7.8	-0.2	42	0.0
	Bihar	4136	0	76.5	72.7	2.3	473	0.0
	DVC	3214	0	66.1	-36.3	0.1	227	0.0
ER	Jharkhand	1212	0	23.7	18.7	-0.4	89	0.0
	Odisha	3874	0	74.6	1.4	0.7	396	0.0
	West Bengal	6575	0	124.8	25.1	0.5	236	0.0
	Sikkim	129	0	1.8	1.8	0.0	38	0.0
	Arunachal Pradesh	121	1	2.3	2.3	-0.2	55	0.0
	Assam	1360	11	23.1	20.2	0.2	109	0.4
	Manipur	203	2	2.8	3.0	-0.2	23	0.0
NER	Meghalaya	355	0	6.3	5.2	0.1	43	0.2
	Mizoram	93	1	1.6	1.6	-0.1	14	0.0
	Nagaland	129	1	2.1	2.0	-0.1	50	0.0
	Tripura	224	0	3.2	2.3	-0.2	74	0.0

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

	/		
	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-9.2	-13.2
Day peak (MW)	479.1	-506.2	-897.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.8	-253.2	130.6	-100.2	15.3	0.3
Actual(MU)	196.8	-254.2	135.3	-96.2	15.8	-2.5
O/D/U/D(MU)	-11.0	-1.0	4.7	4.1	0.5	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5893	14053	5862	2210	1146	29164
State Sector	13110	13816	7895	4740	11	39572
Total	19003	27868	13757	6950	1157	68735

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	452	1300	546	461	11	2770
Lignite	25	17	51	0	0	92
Hydro	137	47	90	33	6	313
Nuclear	19	37	45	0	0	100
Gas, Naptha & Diesel	39	60	16	0	13	128
RES (Wind, Solar, Biomass & Others)	100	68	216	1	0	386
Total	772	1528	963	495	30	3789

Share of RES in total generation (%)	12.98	4.45	22.41	0.28	0.03	10.18
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.17	9.93	36.40	6.89	19.09	21.07

H. All India Demand Diversity Factor

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Based on Regional Max Demands	1.031
Based on State Max Demands	1.067

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

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

		INTER-REGIONAL EXCHANGES Date of Reporting:							
								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/F		ER (With NR)				1	(1120)	(110)	
4	HVDC	ALIPURDUAR-AGRA	- 0/0	0	0 379	0.0	7.8	0.0	
5 1		PUSAULI B/B GAYA-VARANASI	S/C D/C	0	906	0.0	9.8	-7.8 -9.8	
2	765kV	SASARAM-FATEHPUR	S/C	88	306	0.0	1.6	-1.6	
3		GAYA-BALIA	S/C	0	455	0.0	3.4	-3.4	
6		PUSAULI-VARANASI	S/C	1	269	0.0	4.7	-4.7	
7	_	PUSAULI -ALLAHABAD	S/C	7	163	0.0	2.1	-2.1	
9	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	180	383	0.0	0.4	-0.4 -9.2	
10	400 KV	PATNA-BALIA BIHARSHARIFF-BALIA	Q/C D/C	0	767 371	0.0	9.2 4.2	-9.2	
11	1	MOTIHARI-GORAKHPUR	D/C	0	493	0.0	8.2	-8.2	
12	1	BIHARSHARIFF-VARANASI	D/C	168	245	0.5	0.0	0.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	162	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	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	0	0	0.0	0.0	0.0	
	,	DD WHA WE			ER-NR	1.0	54.3	-53.3	
Import/E	export of	ER (With WR)			1			T	
18		JHARSUGUDA-DHARAMJAIGARH	Q/C	1228	0	27.1	0.0	27.1	
19	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1130	0	13.4	0.0	13.4	
20		JHARSUGUDA-DURG	D/C	157	57	0.8	0.0	0.8	
21	400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	Q/C D/C	367	248 0	0.0 4.0	4.8 0.0	-4.8 4.0	
23		BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0	
24	220 kV	BUDHIPADAR-KORBA	D/C	90	0	1.2	0.0	1.2	
2-7	1	Beblin Abak-Rokba	D/C	,,,	ER-WR	46.5	4.8	41.7	
Import/E	Export of	ER (With SR)							
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	668.0	0.0	16.3	-16.3	
27	HVDC	TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	42.8	-42.8	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2702.0	0.0	51.7	-51.7	
28	400 kV	TALCHER-I/C	D/C	428.0	651.0	1.9	0.0	1.9	
29	$220~\rm kV$	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
					ER-SR	0.0	110.7	-110.7	
	Export of	ER (With NER)	7.0		c10	0.0	10.0	10	
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	612	0.0	10.0	-10	
32	220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	0	926 179	0.0	15.4	-15 -1	
32	220 KV	ALII UKDUAK-SALAKATI	D/C	0	ER-NER	0.0	26.8	-26.8	
Import/E	Export of	NER (With NR)			DIC 11DIC	0.0	20.0	-20.0	
33	-	BISWANATH CHARIALI-AGRA		0	503	0.0	11.2	-11.2	
	HVDC		-						
	HVDC		-		NER-NR	0.0	11.2	-11.2	
Import/F	1	WR (With NR)			NER-NR	0.0	11.2	-11.2	
Import/E	Export of	WR (With NR) CHAMPA-KURUKSHETRA	D/C	0	0	0.0	0.0	0.0	
34 35	1	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C	448	0 153	0.0	0.0	0.0	
34 35 36	Export of	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG	D/C D/C D/C	448	0 153 1644	0.0 2.2 0.0	0.0 0.0 38.7	0.0 2.2 -38.7	
34 35 36 37	Export of	WR (With NR) CHAMPA-KURUKSHETRA V'CHAL B/B APL -MHG GWALIOR-AGRA	D/C D/C D/C D/C	0 0	0 153 1644 2705	0.0 2.2 0.0 0.0	0.0 0.0 38.7 46.5	0.0 2.2 -38.7 -46.5	
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 D/C D/C	448 0 0 0	0 153 1644 2705 1624	0.0 2.2 0.0 0.0 0.0	0.0 0.0 38.7 46.5 23.2	0.0 2.2 -38.7 -46.5 -23.2	
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 D/C D/C	448 0 0 0 0	0 153 1644 2705 1624 1037	0.0 2.2 0.0 0.0 0.0 0.0	0.0 0.0 38.7 46.5 23.2 33.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0	
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	D/C D/C D/C D/C D/C D/C S/C	448 0 0 0 0 0 0 657	0 153 1644 2705 1624 1037 0	0.0 2.2 0.0 0.0 0.0 0.0 11.1	0.0 0.0 38.7 46.5 23.2 33.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1	
34 35 36 37 38 39 40 41	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 D/C S/C S/C	448 0 0 0 0 0 0 657 0	0 153 1644 2705 1624 1037 0 1415	0.0 2.2 0.0 0.0 0.0 0.0 11.1	0.0 0.0 38.7 46.5 23.2 33.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7	
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	D/C D/C D/C D/C D/C D/C S/C	448 0 0 0 0 0 657 0 310	0 153 1644 2705 1624 1037 0 1415	0.0 2.2 0.0 0.0 0.0 0.0 11.1	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4	
34 35 36 37 38 39 40 41 42	Export of HVDC - 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	D/C D/C D/C D/C D/C D/C D/C S/C S/C D/C	448 0 0 0 0 0 0 657 0	0 153 1644 2705 1624 1037 0 1415	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7	
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 D/C D/C S/C S/C S/C S/C S/C	448 0 0 0 0 0 657 0 310 207	0 153 1644 2705 1624 1037 0 1415 961 150	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8	
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	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	448 0 0 0 0 0 657 0 310 207 344	0 153 1644 2705 1624 1037 0 1415 961 150	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9	
34 35 36 37 38 39 40 41 42 43 44 45	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 D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	448 0 0 0 0 0 657 0 310 207 344 986	0 153 1644 2705 1624 1037 0 1415 961 150 99	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8	
34 35 36 37 38 39 40 41 42 43 44 45 46	HVDC 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	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 D/C	448 0 0 0 0 657 0 310 207 344 986 135	0 153 1644 2705 1624 1037 0 1415 961 150 99 0	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8	
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	448 0 0 0 0 657 0 310 207 344 986 135 7 24 93	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	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	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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	HVDC 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	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	448 0 0 0 0 657 0 310 207 344 986 135 7 24 93	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0	0.0 2.2 0.0 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0	
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 VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5	
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 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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2.1 1.7 0.0 0.0 0.0 1.8 1.8 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
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 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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	448 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
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 220 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 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 D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2 1.1 1.7 0.0 0.0 0.0 183.2	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
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 220 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 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0 0.0 0.0 1.1 1.7 0.0 0.0 0.0 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55	220 kV 220 kV 220 kV 400 c 400 kV 2765 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-RANPUR BHANPURA-WORAK 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 S/C S/C S	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0 0.0 0.0 183.2 18.6 0.0 23.7 47.5	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 Import/F 52 53 54 55	Export of HVDC 765 kV 400 kV 220 kV 132kV Export of HVDC	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-WORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B'B BARSUR-L-SILIERU 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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 0 0 0 0 0 0 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 111.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
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	Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV 400 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-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU 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 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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 0 0 0 0 0 0 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 1444 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
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 220 kV 400 c 400 kV 2765 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 0 0 0 0 0 0 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0 0.0	0.0 2.2 38.7 46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3 -18.6 0.0 -22.7 -47.5 16.7 0.0 -1.5	
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	Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV 400 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-WORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU 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 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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 0 0 0 0 0 0 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 0.3 0.0 1.4 0.6 0.0 0.0 1.6 1.6	0.0 0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 mport/F 52 53 54 55 56 57 58	Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-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 BASUR-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 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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 10 10 10 10 10	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 22.8 0 0.3 0.0 1.4 0.6 0.0 42.0	0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0 0.0	0.0 2.2 38.7 46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3 -18.6 0.0 -22.7 -47.5 16.7 0.0 -1.5	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-ORAI SATNA-ORAI CHITTORGARH-BANASKANTHA ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-WORAK 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 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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 0 0 0 0 0 0 0	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 0.3 0.0 1.4 0.6 0.0 0.0 1.6 1.6	0.0 0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3 -18.6 0.0 -22.7 -47.5 16.7 0.0 -1.5 1.6 -72.0	
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 mport/F 52 53 54 55 56 57 58	Export of HVDC 765 kV 400 kV 132kV Export of HVDC 765 kV 400 kV	WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR JABALPUR-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 BASUR-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 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	448 0 0 0 0 0 657 0 310 207 344 986 135 7 24 93 54 0 0 0 0 0 0 10 10 10 10 10	0 153 1644 2705 1624 1037 0 1415 961 150 99 0 426 120 144 0 16 0 WR-NR	0.0 2.2 0.0 0.0 0.0 0.0 11.1 0.0 0.0 0.8 2.9 0.3 0.0 1.4 0.6 0.0 0.0 1.6 1.6	0.0 0.0 0.0 38.7 46.5 23.2 33.0 0.0 29.7 7.4 0.0 0.0 2 1.1 1.7 0.0 0.0 183.2 18.6 0.0 23.7 47.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0	0.0 2.2 -38.7 -46.5 -23.2 -33.0 11.1 -29.7 -7.4 0.8 2.9 22.8 -2 -0.8 -1.7 1.4 0.5 0.0 -141.3 -18.6 0.0 -22.7 -47.5 16.7 0.0 -1.5 1.6	