

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: 7th Jan 2018

To,

- 1. कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता 700033 Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 2. महाप्रबंधक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016 General Manager, 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. महाप्रबंधक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009 General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 06.01.2018.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-जनवरी - 2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 6th January 2018, is available at the NLDC website.

धन्यवाद,

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

Report for previous day **Date of Reporting** 7-Jan-18

A. Maximum Demand

11 Muximum Demand						
	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	45132	45049	40046	17229	2391	149848
Peak Shortage (MW)	1642	78	0	0	67	1787
Energy Met (MU)	923	1044	912	327	42	3248
Hydro Gen(MU)	110	32	56	30	9	236
Wind Gen(MU)	6	14	17			36
Solar Gen (MU)*	2.16	15.72	39.70	0.69	0.02	58
Energy Shortage (MU)	16.3	0.0	1.3	0.0	0.4	18.0
Maximum Demand Met during the day (MW) (from NLDC SCADA)	46598	51297	42960	17240	2357	152139

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	0.064	0.00	1.35	18.04	19.40	71.35	9.25

C. Power Supply Pos	sition in States	1	•	T	1		I	1
RegionRegion	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	5487	0	104.0	24.0	0.1	522	0.0
	Haryana	6845	0	123.4	72.9	1.1	348	0.1
	Rajasthan	10676	0	211.7	69.3	2.8	388	4.5
	Delhi	4107	3	66.7	53.4	-1.5	213	0.4
NR	UP	14262	710	301.5	108.8	1.5	745	0.5
· · ·	Uttarakhand	2029	0	38.4	28.8	-0.6	161	0.0
	HP	1527	0	28.0	22.9	0.9	171	0.0
	J&K	2196	549	46.2	43.4	-1.9	54	10.9
	Chandigarh	228	0	3.7	3.9	-0.2	15	0.0
	Chhattisgarh	3270	0	71.2	23.3	-0.5	160	0.0
	Gujarat	13994	0	297.0	91.9	2.4	431	0.0
	MP	12105	0	225.9	132.0	-1.6	485	0.0
WD	Maharashtra	20205	0	407.2	127.5	1.2	461	0.0
WR	Goa	456	0	9.0	8.4	0.2	35	0.0
	DD	325	0	7.2	6.6	0.6	82	0.0
	DNH	743	0	17.4	16.8	0.6	80	0.0
	Essar steel	437	0	8.7	9.6	-0.9	152	0.0
	Andhra Pradesh	8232	0	163.9	51.9	0.3	397	0.2
	Telangana	9399	0	179.6	90.2	-4.0	553	0.2
SR	Karnataka	9918	0	206.9	88.8	2.2	447	0.3
ЭK	Kerala	3314	0	65.4	52.4	0.0	188	0.1
	Tamil Nadu	13602	0	290.0	156.8	1.6	331	0.4
	Pondy	329	0	6.4	7.1	-0.7	12	0.0
	Bihar	3900	0	72.0	65.9	2.6	200	0.0
	DVC	2918	0	69.2	-29.1	-1.8	50	0.0
ER	Jharkhand	1017	0	23.5	13.1	1.4	90	0.0
EN	Odisha	3915	0	66.3	23.3	2.0	500	0.0
	West Bengal	5857	0	94.8	7.7	0.6	360	0.0
	Sikkim	97	0	1.5	1.5	0.0	10	0.0
	Arunachal Pradesh	107	23	2.2	1.7	0.5	56	0.1
	Assam	1429	27	22.4	18.5	1.1	172	0.2
	Manipur	172	7	2.8	2.8	-0.1	23	0.1
NER	Meghalaya	317	0	6.3	3.8	-0.2	45	0.0
	Mizoram	87	6	1.7	0.9	0.1	26	0.0
	Nagaland	118	3	2.3	1.7	0.4	21	0.0
	Tripura	213	2	4.0	1.7	0.6	29	0.0

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

D. Transmational Exchanges (We) Import(vc)/Export(vc)		
	Bhutan	Nepal	Bangladesh
Actual(MU)	5.3	-9.8	-8.6
Day peak (MW)	13.2	-479.5	-122.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.8	-222.3	96.5	-70.1	3.6	1.5
Actual(MU)	190.3	-228.7	83.4	-60.7	5.5	-10.1
O/D/U/D(MU)	-3.5	-6.4	-13.0	9.5	1.9	-11.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3814	12949	4842	2220	540	24365
State Sector	10695	18155	6160	4155	50	39215
Total	14509	31104	11002	6375	589	63580

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	Total
Thermal (Coal & Lignite)	569	1178	582	380	6	2715
Hydro	110	30	56	30	9	234
Nuclear	29	24	74	0	0	127
Gas, Naptha & Diesel	29	49	18	0	24	121
RES (Wind, Solar, Biomass & Others)	32	29	103	2	0	167
Total	769	1310	833	412	39	3365

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data. सचिव(ऊर्जा)/संयुक्त सचिव(पारेषण)/(ओ एम)/निदेशक(ओ एम)/म्ख्य अभियंता-के॰वि॰प्रा॰(ग्रि॰प्र॰)/ मुख्य कार्यपालक अधिकारी(पोसोको)/सभी राज्यो के मुख्य सचिव/ऊर्जा सचिव

						Date of 1	Reporting :	7-Jar
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
nport/E	Export of	ER (With NR)	D/C	0	379	0.0	9.2	-9.2
2	765KV	GAYA-VARANASI SASARAM-FATEHPUR	S/C	0	170	0.0	0.0	0.1
3		GAYA-BALIA	S/C	0	403	0.0	7.2	-7.2
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	245	0.0	1.6	-1.6
7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	S/C S/C	0	201 82	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	390	0.0	7.6	-7.6
9	400 KV	PATNA-BALIA	Q/C	0	1159	0.0	21.0	-21.0
10		BIHARSHARIFF-BALIA	D/C	0	297	0.0	4.4	-4.4
11		MOTIHARI-GORAKHPUR	D/C	0	0	4.6	0.0	4.6
12		BIHARSHARIFF-VARANASI	D/C	0	374	0.0	0.6	-0.6
13	220 KV	PUSAULI-SAHUPURI	S/C	0	0	0.0	0.0	0.0
14		SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15 16	132 KV	GARWAH-RIHAND KARMANASA-SAHUPURI	S/C S/C	0	0	0.4	0.0	0.4
17	1	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	5.1	51.5	-46.4
iport/E		ER (With WR) JHARSUGUDA-DHARAMJAIGARH S/C	D/C	0	524	0.4	0.0	0.4
	765 KV							
19 20		NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-RAIGARH	D/C Q/C	0	397 364	0.3	0.0	0.3 -0.7
21	400 kV	RANCHI-SIPAT	D/C	0	102	2.2	0.0	2.2
22	220 KV	BUDHIPADAR-RAIGARH	S/C	0	91	0.0	0.5	-0.5
23	220 KV	BUDHIPADAR-KORBA	D/C	0	0	1.1	0.0	1.1
mort/F	Export of	ER (With SR)			ER-WR	4.0	1.2	2.8
24	765 KV	ANGUL-SRIKAKULAM	D/C	0.0	0.0	0.0	20.1	-20.1
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	347.1	0.0	15.8	-15.8
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1502.0	0.0	7.7	-7.7
27	400 KV	TALCHER-I/C	D/C	0.0	1161.4	0.0	17.4	-17.4
28	220 KV	BALIMELA-UPPER-SILERRU	S/C	0.0	0.0	0.0	0.0	0.0
-								
					ER-SR	0.0	43.6	-43.6
nport/E		ER (With NER)	1	ı		1		
nport/E		BINAGURI-BONGAIGAON	D/C	0	1253	0.0	9.5	-9
29 30	Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	0	1253 1005	0.0	9.5 5.2	-9 -5
nport/E	Export of	BINAGURI-BONGAIGAON			1253 1005 0	0.0 0.0 0.0	9.5 5.2 2.4	-9 -5 -2
29 30 31	Export of 400 KV 220 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	D/C	0	1253 1005	0.0	9.5 5.2	-9 -5
29 30 31	Export of 400 KV 220 KV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C	0	1253 1005 0	0.0 0.0 0.0	9.5 5.2 2.4	-9 -5 -2
29 30 31 aport/E	Export of 400 KV 220 KV Export of	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	D/C D/C	0	1253 1005 0 ER-NER	0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0	-9 -5 -2 -17.0
29 30 31 mport/E	Export of 400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR)	D/C D/C	0	1253 1005 0 ER-NER	0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0	-9 -5 -2 -17.0
29 30 31 mport/E 32	Export of 400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA	D/C D/C -	0 0	1253 1005 0 ER-NER 700 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7	-9 -5 -2 -17.0 -12.7 -12.7 -47.1
29 30 31 32 mport/E 32 33 34	Export of 400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B	D/C D/C - D/C D/C	0 0 0 0 50	1253 1005 0 ER-NER 700 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1
29 30 31 mport/E 32 mport/E 33 34 35	Export of 400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG	D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 50 0	1253 1005 0 ER-NER 700 NER-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9
29 30 31 mport/E 32 mport/E 33 34 35 36	Export of 400 KV 220 KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA	D/C D/C D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 0 50 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3
29 30 31 32 aport/E 33 34 35 36 37	Export of 400 KV 220 KV Export of HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C	0 0 0 0 50 0 0 699	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5
29 30 31 32 aport/E 33 34 35 36	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA	D/C D/C D/C D/C D/C D/C D/C D/C D/C	0 0 0 0 0 50 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3
29 30 31 31 32 32 33 34 35 36 37 38	Export of 400 KV 220 KV Export of HVDC HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI	D/C	0 0 0 0 50 0 0 699 253	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4
29 30 31 31 32 32 33 34 35 36 37 38 39	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL	D/C	0 0 0 0 0 50 0 0 699 253 238	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 3.4	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9
29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C	0 0 0 50 0 0 699 253 238 959 0 78	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MOTA BADOD-MOTA BADOD-MOTA	D/C	0 0 0 50 0 0 699 253 238 959 0 78	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0	0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 3.4 0.9 22.2 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-SHUNALD RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 137 1391 0 12	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 3.4 0.9 22.2 0 1.4 0.9	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4
29 30 31 31 32 32 33 34 35 35 36 37 38 39 40 41 41 42 43 44 45	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPD-SHUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 12 0 29	0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 2 0.0 0.0	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 1.3
29 30 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-SHUNALD RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 12 0 29 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 0.0
pport/E 32 pport/E 32 pport/E 33 pport/E 33 pport/E 34	Export of 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPD-SHUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 12 0 29	0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 2 0.0 0.0	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 1.3
port/E 29 30 31 31 32 32 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of 400 KV 220 KV Export of HVDC Export of HVDC - 765 KV - 400 KV - 220 KV - 132KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA BADOD-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 D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 12 0 29 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0	-9 -5 -2 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 0.0
29 30 31 31 32 32 34 35 36 37 38 39 40 41 42 43 44 45 46	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPS-BUIALPUR BADOD-KOTA BADOD-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 D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 50 0 0 699 253 238 959 0 78 37 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 122 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 173.4	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 1.3 0.0 -142.1
port/E 29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	Export of 400 KV 220 KV Export of HVDC Export of HVDC - 765 KV - 400 KV - 220 KV - 132KV Export of HVDC	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 50 0 0 699 253 238 959 0 78 33 79 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 122 0 29 0 WR-NR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0 173.4 24.0 0.0 24.0	-9 -5 -12.7 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 0.0 -142.1
33 34 35 37 38 39 40 41 42 43 44 45 46 47 47 48 49 50	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-RAICHUR WARDHA-NIZAMABAD	D/C	0 0 0 50 0 0 699 253 238 959 0 78 33 79 37 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 112 0 29 0 WR-NR 1000 0 1469 2567	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0 173.4 24.0 0.0 39.8	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 -22.2 -2 1.4 0.4 1.3 0.0 -142.1 -24.0 0.0 -24.0
33 34 35 37 38 39 40 41 44 45 46 46 47 48 48 49 50 51	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHARRAWATI B/B BARSUR-L.SILERU SOLAPUR-NIZAMABAD KOLHAPUR-KUDGI	D/C	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 12 0 29 0 WR-NR 1000 0 1469 2567	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 3.4 0.9 22.2 0 1.4 0.4 1.3 0.4 0.0 31.4 0.0 0.0 0.0 0.0 31.4	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0 173.4 24.0 0.0 0.0 0.0	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 3.4 0.9 22.2 -2 1.4 0.4 1.3 0.0 -142.1 -24.0 0.0 -24.0
pport/E 29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B'B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BADOD-KOTA BADOD-KOTA BADOD-WORAK 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 S/C S/C	0 0 0 0 0 50 0 0 699 253 238 959 0 78 33 79 37 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 12 0 29 0 WR-NR 1000 0 1469 2567 38	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 3.4 0.9 22.2 0 1.4 0.4 1.3 0.4 0.0 31.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	9.5 5.2 2.4 17.0 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 0.0 0.0 173.4 24.0 0.0 24.0 39.8 0.1 0.0	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 -22.2 -2 1.4 0.4 1.3 0.4 0.0 -142.1
port/E 29 30 31 31 32 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 552 53	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPD-SHUALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L. SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C D/C D/C D/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 0 699 253 238 959 0 78 33 79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 122 0 WR-NR 1000 0 1469 2567 38 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 3.4 0.9 22.2 0 1.4 0.4 1.3 0.4 0.0 0.0 31.4	9.5 5.2 2.4 17.0 12.7 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 173.4 24.0 0.0 24.0 39.8 0.1 0.0 0.0 0.0 0.0	-9 -5 -17.0 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 1.3 0.4 0.0 -142.1 -24.0 0.0 -24.0 -39.8 3.9 0.0
port/E 29 30 31 31 32 32 34 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 55 50 51	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B'B APL-MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUALPUR BADOD-KOTA BADOD-KOTA BADOD-WORAK 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 S/C S/C	0 0 0 0 0 50 0 0 699 253 238 959 0 78 33 79 37 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 1391 0 122 0 29 0 WR-NR 1000 0 1469 2567 38 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 173.4 24.0 0.0 24.0 39.8 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-9 -5 -12.7 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 1.3 0.4 0.0 -142.1 -24.0 0.0 -24.0 -39.8 3.9 0.0 0.0 0.0 1.5
port/E 29 31 30 31 port/E 32 port/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 port/E 47 48 49 50 51 55 53	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 0 50 0 0 699 253 238 959 0 78 33 79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 137 1391 0 12 0 29 0 WR-NR 1000 0 1469 2567 38 0 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 3.4 0.9 22.2 0 1.4 0.4 1.3 0.4 0.0 0.0 31.4	9.5 5.2 2.4 17.0 12.7 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 173.4 24.0 0.0 24.0 39.8 0.1 0.0 0.0 0.0 0.0	-9 -5 -12.7 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.0 -142.1 -24.0 0.0 -24.0 3.9 3.9 0.0 0.0 0.0
port/E 29 31 30 31 port/E 32 port/E 33 34 35 36 37 38 39 40 41 42 43 44 45 46 port/E 47 48 49 50 51 55 53	Export of 400 KV 220 KV Export of HVDC Export of HVDC 220 KV 400 KV 220 KV 132KV Export of HVDC LINK 765 KV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI NER (With NR) BISWANATH CHARIALI-AGRA WR (With NR) CHAMPA-KURUKSHETRA VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR WARDHA-NIZAMBAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 0 0 0 0 0 0 0 699 253 238 959 0 78 33 79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1253 1005 0 ER-NER 700 NER-NR 1411 250 2015 2666 0 0 136 0 137 1391 0 12 0 29 0 WR-NR 1000 0 1469 2567 38 0 0 0 0 WR-SR	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9.5 5.2 2.4 17.0 12.7 12.7 12.7 47.1 0.3 48.9 50.3 24.5 0.0 0.0 0.0 0.0 173.4 24.0 0.0 24.0 39.8 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-9 -5 -12.7 -12.7 -12.7 -12.7 -47.1 1.1 -48.9 -50.3 -24.5 3.4 0.9 22.2 -2 1.4 0.4 1.3 0.4 0.0 -142.1 -24.0 0.0 -24.0 -39.8 3.9 0.0 0.0 0.0