

National Load Despatch Centre पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड POWER SYSTEM ORERATION CORROBATION LIMI

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

Date: 20th Aug, 2016

To,

- 1. महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड , कोलकाता 700033 General Manager, 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. महाप्रबंधक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र , अंधेरी, मुंबई 400093 General Manager, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 General Manager, 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 19.08.2016.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स. - 5.5.1 के प्रावधान के अनुसार, दिनांक 19th अगस्त 2016 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर निम्न लिंक 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 19th August 2016, is available at the NLDC website.

http://posoco.in/WebsiteData/Reports/DailyReports/2016-2017/Aug%202016/20.08.16 NLDC PSP.pdf

Thanking You.

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

Report for previous day Date of Reporting 20-Aug-16

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	45928	38365	38387	17530	2444	142654
Peak Shortage (MW)	1124	110	200	200	145	1779
Energy Met (MU)	1026	878	923	366	48	3241
Hydro Gen(MU)	371	101	86	85	19	662
Wind Gen(MU)	16	83	122			221

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
NEW GRID	0.060	0.15	1.97	14.36	16.48	74.34	9.18
SR GRID	0.060	0.15	1.97	14.36	16.48	74.34	9.18

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		Max. Demand	Shortage during	Energy	Drawal	OD(+)/	Max
RegionRegion	States	Met during the day (MW)	maximum Demand (MW)	Met (MU)	Schedule (MU)	UD(-) (MU)	OD (MW)
	Punjab	9946	0	226.2	128.8	-0.6	147
	Harvana	8397	50	164.6	136.6	-2.4	149
	Rajasthan	7865	0	174.9	70.5	0.5	208
	Delhi	5182	0	102.7	84.5	0.4	266
NR	UP	12688	0	253.7	133.1	0.3	422
	Uttarakhand	1714	75	36.0	14.8	1.2	169
	HP	1238	10	25.8	0.5	0.5	146
	J&K	1789	447	35.6	16.9	-3.3	129
	Chandigarh	312	0	6.2	6.6	-0.4	10
	Chhattisgarh	3384	0	72.6	37.3	2.6	290
	Gujarat	12750	0	277.3	71.7	-4.5	492
	MP	4754	0	103.0	31.4	-4.5	213
	Maharashtra	17456	0	382.5	117.2	1.0	396
WR	Goa	435	0	9.2	6.9	1.7	110
	DD	310	0	6.5	6.0	0.6	29
	DNH	721	0	16.1	16.3	-0.2	19
	Essar steel	543	0	11.1	12.1	-1.0	198
	Andhra Pradesh	7540	0	175.9	7.4	4.8	609
	Telangana	7836	0	174.6	120.3	2.0	393
SR	Karnataka	8642	0	185.1	65.0	-0.8	470
SK	Kerala	3327	75	64.6	44.8	0.6	160
	Tamil Nadu	14279	0	315.4	114.7	1.7	578
	Pondy	357	0	7.7	7.5	0.2	57
	Bihar	3345	200	65.1	65.4	-2.5	0
	DVC	2605	0	55.6	-16.5	0.6	100
ER	Jharkhand	988	0	19.8	15.5	-0.4	40
EK	Odisha	3922	0	75.4	19.7	-0.7	100
	West Bengal	7840	0	149.1	47.9	5.1	250
	Sikkim	90	0	1.3	1.6	-0.3	0
	Arunachal Pradesh	98	4	2.0	1.8	0.2	5
	Assam	1569	76	31.7	21.9	4.8	188
	Manipur	129	8	1.9	2.1	-0.2	8
NER	Meghalava	268	0	4.8	0.0	1.1	31
	Mizoram	75	2	1.2	1.0	0.2	21
	Nagaland	101	4	1.9	1.6	0.3	9
	Tripura	243	10	4.2	3.5	1.2	23

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	34.0	-4.9	-12.6
Day peak (MW)	1395.8	-189.6	-546.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.8	-150.8	81.1	-94.1	-2.1	-2.1
Actual(MU)	157.5	-160.5	89.2	-90.1	3.4	-0.5
O/D/U/D(MU)	-6.3	-9.7	8.1	4.0	5.5	1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3594	16871	2430	870	65	23830
State Sector	14005	21804	9941	8129	110	53989
Total	17599	38675	12371	8999	175	77819

सचिव(ऊर्जा)/संयुक्त सचिव(पारेषण)/(ओ एम)निदेशक(ओ एम)/मुख्य अभियंता-के॰वि॰प्रा॰(ग्रि॰प्र॰)/ अध्यक्ष एवं प्रबंध निदेशक (पावरग्रिङ)/मुख्य कार्यपालक अधिकारी(पोसोको)/सभी राज्यो के मुख्य सचिव/ऊर्जा सचिव

		INTER-R	EGIONA	LEACH	INGES	Date of R	eporting :	20-Aug
	T			Max	Max			Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Import (MW)	Export (MW)	Import (MU)	Export (MU)	NET (MU)
1	export or i	ER (With NR) GAYA-VARANASI	D/C	0	298	0.0	10.0	-10.0
2	765KV	SASARAM-FATEHPUR	S/C	12	132	0.0	2.0	-2.0
3		GAYA-BALIA	S/C	0	325	0.0	6.0	-6.0
4	HVDC	PUSAULI B/B	S/C	3	0	0.0	0.0	0.0
5	LINK		S/C	216	0	4.0	0.0	4.0
6		PUSAULI-SARNATH PUSAULI -ALLAHABAD	S/C	129	0	2.0	0.0	2.0
7		MUZAFFARPUR-GORAKHPUR	D/C	3	398	0.0	6.0	-6.0
8	400 KV	PATNA-BALIA	Q/C	0	700	0.0	11.0	-11.0
9		BIHARSHARIFF-BALIA	D/C	11	217	0.0	3.0	-3.0
10		BARH-GORAKHPUR	D/C	0	461	0.0	9.0	-9.0
11		BIHARSHARIFF-VARANASI	D/C	301	0	0.0	2.0	-2.0
12	220 KV	PUSAULI-SAHUPURI	S/C	0	208	0.0	3.0	-3.0
13 14		SONE NAGAR-RIHAND GARWAH-RIHAND	S/C S/C	0	0	0.0	0.0	0.0
15	132 KV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
16	1	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
	·				ER-NR	6.0	52.0	-46.0
_	export of	ER (With WR)		-				
17	765 KV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	82	453	0.0	5.0	-5.0
18		NEW RANCHI-DHARAMJAIGARH ROURKELA - RAIGARH (SEL LILO	D/C	586	33	7.0	0.0	7.0
19		BYPASS)	S/C	192	5	2.0	0.0	2.0
20	400 KV	JHARSUGUDA-RAIGARH	S/C	155	27	2.0	0.0	2.0
21	400 K V	IBEUL-RAIGARH	S/C	114	15	1.0	0.0	1.0
22		STERLITE-RAIGARH	D/C	39	114	0.0	1.0	-1.0
23		RANCHI-SIPAT	D/C	301	0	5.0	0.0	5.0
24	220 KV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	S/C D/C	18 55	112 54	0.0	0.0	-1.0 0.0
2.7	ı	BODIII ADAR-KOKBA	D/C	33	ER-WR	17.0	7.0	10.0
nport/E	Export of	ER (With SR)						
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	319	0.0	16.0	-16.0
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2449	0.0	44.0	-44.0
28	400 KV	TALCHER-I/C		0.0	1439	0.0	28.0	-28.0
29	220 KV	BALIMELA-UPPER-SILERRU	S/C	0	0	0.0	0.0	0.0
nnort/E	Export of	ER (With NER)			ER-SR	0.0	60.0	-60.0
30	400 KV	BINAGURI-BONGAIGAON	Q/C	7	1517	0.0	22.0	-22
31	220 KV	BIRPARA-SALAKATI	D/C	0	0	0.0	4.0	-4
	•				ER-NER	0.0	26.0	-26.0
nport/E		NR (With NER)						
	HVDC	BISWANATH CHARIALI-AGRA	_	1000	0	22.9	0.0	22.9
32	HVDC		ا					
					NR-NER	22.9	0.0	22.9
nport/E	Export of	WR (With NR)		500	,			
nport/E	Export of '	WR (With NR) VCHAL B/B	D/C	500	0	9.0	0.0	9.0
nport/E	Export of	WR (With NR)		500	,			
33 34	Export of V	WR (With NR) VCHAL B/B APL -MHG	D/C D/C	0	0 1815	9.0 0.0	0.0	9.0 -35.0
33 34 35	Export of V HVDC HVDC 765 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA	D/C D/C D/C	0	0 1815 2446	9.0 0.0 0.0	0.0 35.0 41.0	9.0 -35.0 -41.0
33 34 35 36	Export of Y HVDC HVDC 765 KV 765 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C D/C D/C	0 0 0 54 36	0 1815 2446 950	9.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0
33 34 35 36 37 38 39	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL - MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL VCHAL - RIHAND	D/C D/C D/C D/C S/C S/C S/C S/C	0 0 0 54 36 0	0 1815 2446 950 209 284 0	9.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0
33 34 35 36 37 38 39 40	Export of Y HVDC HVDC 765 KV 765 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C D/C D/C D/C S/C S/C S/C S/C D/C	0 0 0 54 36 0	0 1815 2446 950 209 284 0	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0
33 34 35 36 37 38 39 40	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA	D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	0 0 0 54 36 0 0	0 1815 2446 950 209 284 0 0	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 0.0 -1.0
33 34 35 36 37 38 39 40 41 42	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 54 36 0 0 18	0 1815 2446 950 209 284 0 0 73	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0 1.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0
33 34 35 36 37 38 39 40	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL - MHG GWALIOR - AGRA PHAGI-GWALIOR ZERDA - KANKROLI ZERDA - BHINMAL VCHAL - RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	0 0 0 54 36 0 0	0 1815 2446 950 209 284 0 0	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 0.0
33 34 35 36 37 38 39 40 41 42 43	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK	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 54 36 0 0 18 0 53	0 1815 2446 950 209 284 0 0 73 81	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0 1.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0
33 34 35 36 37 38 39 40 41 42 43	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL - AHIG APL - AHIG APL - AHIG GERDA - KANKROLI ZERDA - BHINMAL VCHAL - BHINMD RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	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 54 36 0 0 18 0 53	0 1815 2446 950 209 284 0 0 73 81	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0 1.0 1.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 -0.0 -1.0 -1.0 -1.0
33 34 35 36 37 38 39 40 41 42 43 44 45	Export of V HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV	WR (With NR) VCHAL B/B APL-AHHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 54 36 0 0 18 0 53 17	0 1815 2446 950 209 284 0 0 73 81 0 University of the control of t	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 1.0 0.0 1.0 0.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 0.0 0.0 -90.9
33 34 35 36 37 38 39 40 41 42 43 44 45	Export of 'HVDC HVDC T65 KV 765 KV 400 KV 400 KV 400 KV 132KV Export of 'HVDC HVDC HVDC HVDC HVDC HVDC HVDC HVDC	WR (With NR) VCHAL B/B APL-AHIG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-MORAK MEHAGON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B	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 54 36 0 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 73 81 0 WR-NR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 0.0 0.0 1.0 1.0 0.0 0.0 100.9	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 -1.0 -90.9
33 34 35 36 37 38 39 40 41 42 43 44 45	Export of ' HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK	WR (With NR) VCHAL B/B APL-AHHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-KANKROLI ZERDA-HIIMAL VCHAL-RIHAND RAPP-SHUJALPUR 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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 73 81 0 11 0 WR-NR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 -1.0 -0.0 -90.9
33 34 35 36 37 38 39 40 41 42 43 44 45 pport/E 46 47	Export of ' HVDC HVDC T65 KV T65 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK T65 KV	WR (With NR) VCHAL B/B APL-MHOG APL-MHOG GERDA-KANKROLI ZERDA-KANKROLI ZERDA-BHINMAL VCHAL BHINDD 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 S/C S/C	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 0 73 81 0 11 0 WR-NR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0 1.0 0.0 0.0 0.0 1.0 0.0 0.0 0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 -1.0 -0.0 -90.9
33 34 35 36 37 38 39 40 41 42 43 44 45 port/F 46 47 48 49	Export of ' HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK	WR (With NR) VCHAL B/B APLAHOR AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-KUDGI	D/C D/C D/C D/C S/C S/C	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 0 73 81 0 111 0 WR-NR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 3.0 0.0 0.0 1.0 1.0 0.0 0.0 0.0 1.0 0.0 0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 0.0 -1.0 -1.0 0.0 0.0 -90.9
33 34 35 36 37 38 38 39 40 41 42 43 44 45 45 47 48 49 50	Export of ' HVDC HVDC T65 KV T65 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK T65 KV 400 KV	WR (With NR) VCHAL B/B APLAHIGA APLAHIGA APLAGIA APHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHOGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	D/C D/C D/C D/C S/C S/C	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 73 81 0 WR-NR 1000 0 2319 318 58	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 0.0 0.0 1.0 0.0 0.0 0.0 100.9 22.0 0.0 42.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 0.0 -1.0 0.0 -22.0 0.0 -22.0 -42.0 -40 -1.0
33 34 35 36 37 38 39 40 41 42 43 44 45 45 46 47 48 49	Export of ' HVDC HVDC T65 KV T65 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK T65 KV 400 KV	WR (With NR) VCHAL B/B APLAHOR AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-KOTA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSUR-LSILERU SOLAPUR-KUDGI	D/C D/C D/C D/C S/C S/C	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 0 73 81 0 111 0 WR-NR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 0.0 0.0 1.0 0.0 0.0 100.9 22.0 0.0 42.0 4.0 1.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 -1.0 0.0 -90.9 -22.0 0.0 -42.0 -4.0 -1.0 0.0
33 34 35 36 37 38 39 40 41 42 43 44 45 Exercise 14 46 47 48 49 50 51	Export of ' HVDC HVDC T65 KV T65 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK T65 KV 400 KV	WR (With NR) 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-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 73 81 0 0 WR-NR 1000 0 2319 318 58	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 0.0 0.0 1.0 0.0 0.0 0.0 100.9 22.0 0.0 42.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 0.0 -1.0 0.0 -22.0 0.0 -22.0 -42.0 -40 -1.0
33 34 35 36 37 38 39 40 41 42 43 44 45 mport/F 48 49 50 51	Export of ' HVDC HVDC T65 KV T65 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK T65 KV 400 KV	WR (With NR) VCHAL B/B APL-AHIG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSU-L.SIACHUR KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-MIGRA APLA B/B APLA B/B KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 54 36 0 0 0 18 0 53 17 0 0 0 0 0 17 0 0 0 0 0 0 0 0 0 0 0 0	0 1815 2446 950 209 284 0 0 73 81 0 111 0 WR-NR 1000 0 2319 318 58 0 0 WR-SR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 0.0 0.0 1.0 1.0 0.0 0.0 100.9 22.0 0.0 42.0 4.0 1.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 -1.0 0.0 -2.0 -2.0 0.0 -22.0 0.0 -42.0 -42.0 -4.0 -1.0 0.0 -2.0
33 34 35 36 37 38 38 39 40 41 42 43 44 45 45 46 47 48 49 50 51	Export of ' HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 132KV Export of ' HVDC LINK 765 KV 400 KV	WR (With NR) VCHAL B/B APL-AHIG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-BHINMAL VCHAL-RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR WR (With SR) BHADRAWATI B/B BARSU-L.SIACHUR KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-MIGRA APLA B/B APLA B/B KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C D/C D/C D/C S/C S/C	0 0 0 54 36 0 0 18 0 53 17 0	0 1815 2446 950 209 284 0 0 73 81 0 111 0 WR-NR 1000 0 2319 318 58 0 0 WR-SR	9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 35.0 41.0 17.9 2.0 0.0 0.0 1.0 1.0 0.0 0.0 100.9 22.0 0.0 42.0 4.0 1.0 0.0	9.0 -35.0 -41.0 -17.9 -2.0 -3.0 0.0 -1.0 -1.0 -1.0 0.0 -2.0 -2.0 0.0 -22.0 0.0 -42.0 -42.0 -4.0 -1.0 0.0 -2.0