

National Load Despatch Centre पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

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: 09th Sep, 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 08.09.2016.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08 सितंबर 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 08th September 2016, is available at the NLDC website.

http://posoco.in/WebsiteData/Reports/DailyReports/2016-2017/Sep%202016/09.09.16 NLDC PSP.pdf

Thanking You.

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

Report for previous day Date of Reporting 9-Sep-16

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	50668	46251	39324	17149	2449	155841
Peak Shortage (MW)	1106	132	0	0	181	1419
Energy Met (MU)	1147	1033	917	369	46	3512
Hydro Gen(MU)	317	98	53	83	20	571
Wind Gen(MU)	28	40	96			164

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	0.040	0.00	0.29	9.44	9.73	78.63	11.63
SR GRID	0.040	0.00	0.29	9.44	9.73	78.63	11.63

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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)
	Punjab	9960	0	229.4	118.7	-0.3	131
	Haryana	8772	0	179.1	145.0	-2.9	134
	Rajasthan	8664	0	193.0	69.6	-0.5	134
	Delhi	4962	0	102.3	81.6	0.0	153
NR	UP	15401	0	329.6	142.0	2.0	396
IVIX	Uttarakhand	1906	0	40.7	14.2	3.5	307
	HP	1329	0	28.4	2.1	1.6	200
	J&K	2064	516	38.2	18.4	-2.2	140
	Chandigarh	309	0	6.0	6.3	-0.3	27
		3561	0	83.4	38.2	4.5	330
	Chhattisgarh	13778	10	305.5	74.1	4.5	937
	Gujarat MP	7523	0	160.5	74.1	-1.5	350
	Maharashtra	20129	0	441.6	124.9	-1.5 1.1	393
WR							
	Goa	383	0	8.4	8.1	-0.2	94
	DD	310	0	7.0	6.6	0.4	126
	DNH	748	0	17.3	17.4	-0.2	23
	Essar steel	500	0	9.8	10.4	-0.6	421
	Andhra Pradesh	7714	0	167.4	21.1	2.2	720
	Telangana	7915	0	173.3	113.2	3.2	423
SR	Karnataka	9490	0	203.5	76.8	3.9	822
	Kerala	3465	0	65.4	44.7	1.1	215
	Tamil Nadu	13705	0	300.6	126.2	-3.1	636
	Pondy	331	0	7.0	7.3	-0.2	24
	Bihar	3345	0	67.3	66.2	-0.8	100
	DVC	2498	0	61.5	-26.3	0.0	100
ER	Jharkhand	1053	0	20.9	14.2	-1.1	85
LIN	Odisha	3889	0	74.0	21.2	-0.3	150
	West Bengal	7796	0	144.0	34.6	2.5	250
	Sikkim	91	0	1.3	1.3	0.0	25
	Arunachal Pradesh	116	2	1.9	2.1	-0.3	15
	Assam	1564	81	29.8	21.8	4.5	237
	Manipur	143	2	1.9	2.3	-0.3	23
NER	Meghalaya	291	0	5.6	0.4	1.0	57
	Mizoram	76	1	1.2	1.2	0.0	9
	Nagaland	97	3	1.6	1.6	-0.1	10
	Tripura	254	1	3.9	3.4	1.3	49

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	34.0	-5.1	-13.3
Day peak (MW)	1505.0	-200.9	-577.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	215.3	-205.9	86.6	-93.0	-2.4	0.6
Actual(MU)	207.9	-205.3	91.7	-95.1	1.8	1.0
O/D/U/D(MU)	-7.4	0.6	5.1	-2.1	4.2	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2319	12049	1410	2265	134	18177
State Sector	11525	17432	6655	4649	110	40371
Total	13844	29481	8065	6914	243	58548

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

SINO Value Line Details Circuit Max Import Max County County							Date of R	eporting :	
Sin		_			1			ī	/Export : for NET
1	Sl No	_	Line Details	Circuit		Export	Import (MU)	_	N (N
2	Import/I	Export of I	ER (With NR)						
A		_		+					-1
1		765KV	SASARAM-FATEHPUR	1					1
LINE PESAULIS ARRAYTH S.C. 0 202 0.0 0.0	3		GAYA-BALIA	S/C	0	423	0.0	8.0	-8
FINALLIA JARBAD	4		PUSAULI B/B	S/C	0	249	0.0	6.0	-(
	5	Liitk	PUSAULI-SARNATH	S/C	0	202	0.0	0.0	0
NULLEAPARPIER CORASSIPUR		_							0
8					4	630			-1
10	8	400 KV	PATNA-BALIA	Q/C	0	200	0.0	5.0	-:
11	9	1	BIHARSHARIFF-BALIA	D/C	45	215	0.0	5.0	-:
12 20 KV PUSALLIA SHEPUER S.C 2 206 0.0 1.0	10		BARH-GORAKHPUR	D/C	0	373	0.0	7.0	-
13 14			BIHARSHARIFF-VARANASI						-
14 15 15 15 15 15 16 16 16		220 KV	PUSAULI-SAHUPURI	+					-
15		1							(
15		132 KV		+	1				1
		4							(
Import/Export of ER (With WR)	16		KARMANASA-CHANDAULI	S/C	0				(
17			CD (AVII.)			ER-NR	2.0	57.0	-5
18		export of I	, ' 	T = :=	-		0		1
19		765 KV							-1
19									(
20	19			S/C	166	0	2.0	0.0	1
22 STERLITE-RAIGARH DC 138 0 2.0 0.0 23 RANCHI-SIPAT DC 272 0 4.0 0.0 24 220 KV BUDHIPADAR-RAIGARH S/C 0 119 0.0 2.0 25 SUN BUDHIPADAR-RORBA DC 90 1 1.0 0.0 26 HVDC SERWR 19.0 17.0 27 LINK TALCHER-ROLAR BIPOLE DC 0.0 305 0.0 14.0 28 400 KV TALCHER-RC ARBIPOLE DC 0.0 2446 0.0 44.0 29 220 KV BALIMELA-UPPER-SILERU S/C 0 0 0.0 0.0 29 220 KV BALIMELA-UPPER-SILERU S/C 0 0 0.0 0.0 30 400 KV TALCHER-ROLAR BIPOLE DC 0.0 826 0.0 14.0 31 220 KV BINAGURI-BONGAIGAON Q/C 0 826 0.0 14.0 31 220 KV BIRPARA-SALAKATI DC 0 0 0.0 3.0 31 220 KV BIRPARA-SALAKATI DC 0 0 0.0 3.0 31 220 KV BIRPARA-SALAKATI DC 0 0 0.0 3.0 32 HVDC BUSWANATH CHARIALI-AGRA - 700 0 16.1 0.0 33 HVDC With NER) 33 HVDC VCHAL BB DC 0 300 0.0 3.9 34 HVDC APL-MHG DC 0 2520 0.0 60.0 35 765 KV PHAGL-GWALIOR DC 0 1232 0.0 39.1 37 400 KV ZERDA-RANKROLI S/C 241 8 3.0 0.0 38 400 KV ZERDA-RANKROLI S/C 289 0 3.0 0.0 39 400 KV WICHALIDR S/C 289 0 3.0 0.0 40 400KV RAPP-SHUJALPUR DC 0 0 0.0 0.0 40 400KV RAPP-SHUJALPUR DC 0 0 0.0 0.0 41 400KV RAPP-SHUJALPUR DC 0 0 0.0 0.0 44 400KV RAPP-SHUJALPUR DC 0 0 0.0 0.0 45 BADOD-MORAK S/C 70 0 1.0 0.0 46 HVDC BHADRAWATI BB - 0 1000 0.0 0.0 47 LINK BASUR-L-SILERU - 0 0 0.0 0.0 48 765 KV GWALIOR-SAWAI MADHOPUR S/C 0 0 0.0 0.0 50 KOLHAPUR-CHIRODI DC 0 0 0.0 0.0 51 220 KV PHAGL-RUBGI DC 0 0 0.0 0.0 52 KOLHAPUR-CHIRODI DC 0 0 0.0 0.0 53 KOLHAPUR-CHIRODI DC 0 0 0.0 0.0 54 400 KV CHALBER-WADI S/C 0 0 0.0 0.0 55 20 KV GUALIOR-CHIRODI DC 0 0 0.0 0.0 56 CANTARIONALEXCHANGE	20]		S/C	176	0	2.0	0.0	2
RANCHI-SIPAT	21	400 KV	IBEUL-RAIGARH	S/C	126	0	2.0	0.0	1
220 KV BUDHIPADAR-RAIGARH S/C 0 119 0.0 2.0	22]	STERLITE-RAIGARH	D/C	138	0	2.0	0.0	
December	23		RANCHI-SIPAT	D/C	272	0	4.0	0.0	4
STATE SUDHIPADAR-KORBA DC STATE STAT		220 KV				119			-
Import/Export of ER (With SR) 26	25	220 11 1	BUDHIPADAR-KORBA	D/C	90	1	1.0	0.0	:
26						ER-WR	19.0	17.0	1
Talcher Talc		1		1				1	
28		-1							-1
29 220 KV BALIMELA-UPPER-SILERRU S/C 0 0 0.0 0.0 0.0				D/C					-4
TRANSNATIONAL EXCHANGE S26 No.0 S8.0				L					-1
Minport/Export of ER (With NER) 30 400 KV BINAGURI-BONGAIGAON Q/C 0 826 0.0 14.0 0.0 3.0 ER-NER 0.0 17.0 0.0 3.0 ER-NER 0.0 17.0 0.0 0.0 3.0 ER-NER 0.0 17.0 0.0	29	220 KV	BALIMELA-UPPER-SILERRU	S/C	0				(
30 400 KV BINAGURI-BONGAIGAON Q/C 0 826 0.0 14.0	Impost/I	Evnort of	ED (With NED)			ER-SR	0.0	58.0	
STANSNATIONAL EXCHANGE 3.0 0.0 3.0 17.0				O/C	Δ.	926	0.0	14.0	1
Import/Export of NR (With NER)									-
Import/Export of NR (With NER) 32	J1	220 A V	DIG THOTOTECHNATT	D/C					-1
HyDC BISWANATH CHARIALI-AGRA - 700 0 16.1 0.0	Import/F	Export of N	NR (With NER)				0.0	17.0	
Import/Export of WR (With NR) 33				-	700	0	16.1	0.0	1
Import/Export of WR (With NR) 33			-	1					1
34 HVDC APL-MHG D/C 0 2520 0.0 60.0 35 765 KV GWALIOR-AGRA D/C 0 3014 0.0 58.0 36 765 KV PHAGI-GWALIOR D/C 0 1232 0.0 39.1 37 400 KV ZERDA-KANKROLI S/C 289 0 3.0 0.0 38 400 KV ZERDA-BHINMAL S/C 241 8 3.0 0.0 39 400 KV VCHAL-RIHAND S/C 0 0 0.0 0.0 40 400KV RAPP-SHUJALPUR D/C 0 0 0.0 0.0 41 BADOD-KOTA S/C 19 75 0.0 1.0 42 220 KV MEHGAON-AURAIYA S/C 70 0 1.0 0.0 44 MALANPUR-AURAIYA S/C 32 0 0.0 0.0 45 132KV GWALIOR-SAWAI MADHOPUR S/C 0 0 0.0 0.0 46 HVDC BHADRAWATI B/B - 0 1000 0.0 0.0 47 LINK BARSUR-L.SILERU - 0 0 0.0 0.0 48 765 KV SOLAPUR-RAICHUR D/C 0 0 0.0 0.0 50 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 51 220 KV ENDAMBEWADI S/C 90 0 2.0 0.0 TRANSNATIONAL EXCHANGE		Evnort of V	WR (With NR)						•
35 765 KV GWALIOR-AGRA D/C 0 3014 0.0 58.0 36 765 KV PHAGI-GWALIOR D/C 0 1232 0.0 39.1 37 400 KV ZERDA-KANKROLI S/C 289 0 3.0 0.0 38 400 KV ZERDA-BHINNAL S/C 241 8 3.0 0.0 39 400 KV VCHAL-RIHAND S/C 0 0 0.0 0.0 40 400KV RAPP-SHUJALPUR D/C 0 0 0.0 0.0 41 BADOD-KOTA S/C 19 75 0.0 1.0 42 220 KV BADOD-MORAK S/C 0 89 0.0 1.0 44 WHIGHAON-AURAIYA S/C 32 0 0.0 0.0 45 132KV GWALIOR-SAWAI MADHOPUR S/C 0 0 0.0 0.0 46 HVDC BHADRAWATI B/B - 0 1000 0.0 0.0 47 LINK BARSUR-L.SILERU - 0 0 0.0 0.0 48 765 KV SOLAPUR-RAICHUR D/C 0 2305 0.0 38.0 49 400 KV KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 50 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 51 220 KV PONDA-AMBEWADI S/C 90 0 2.0 0.0 TRANSNATIONAL EXCHANGE		Aportor	V/CHAL D/D	D/C	0	300	0.0	3.9	-
36	Import/I		V CHAL B/B				0.0	60.0	-(
37 400 KV ZERDA-KANKROLI S/C 289 0 3.0 0.0 38 400 KV ZERDA -BHINMAL S/C 241 8 3.0 0.0 39 400 KV VCHAL -RIHAND S/C 0 0 0.0 0.0 40 400 KV RAPP-SHUJALPUR D/C 0 0 0.0 0.0 41 BADOD-KOTA S/C 19 75 0.0 1.0 42 220 KV MEHGAON-AURAIYA S/C 0 89 0.0 1.0 43 MEHGAON-AURAIYA S/C 32 0 0.0 0.0 44 MALANPUR-AURAIYA S/C 32 0 0.0 0.0 45 132KV GWALIOR-SAWAI MADHOPUR S/C 0 0 0.0 0.0 46 HVDC BHADRAWATI B/B - 0 1000 0.0 24.0 47 LINK BARSUR-L.SILERU - 0 0 0.0 0.0 48 765 KV SOLAPUR-RAICHUR D/C 0 2305 0.0 38.0 49 400 KV KOLHAPUR-KUDGI D/C 0 0 0.0 0.0 50 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 51 220 KV PONDA-AMBEWADI S/C 90 0 2.0 0.0 TRANSNATIONAL EXCHANGE	Import/I	HVDC		D/C	0	2520	0.0		1
38	33 34	HVDC HVDC	APL -MHG					58.0	-4
39 400 KV VCHAL-RIHAND S/C 0 0 0.0 0.0 40 400KV RAPP-SHUJALPUR D/C 0 0 0.0 0.0 41 BADOD-KOTA S/C 19 75 0.0 1.0 42 220 KV MEHGAON-AURAIYA S/C 70 0 1.0 0.0 44 MEHGAON-AURAIYA S/C 32 0 0.0 0.0 45 132KV GWALIOR-SAWAI MADHOPUR S/C 32 0 0.0 0.0 45 132KV GWALIOR-SAWAI MADHOPUR S/C 32 0 0.0 0.0 46 HVDC BHADRAWATI B/B - 0 1000 0.0 24.0 47 LINK BARSUR-L.SILERU - 0 0 0.0 0.0 48 765 KV SOLAPUR-RAICHUR D/C 0 2305 0.0 38.0 49 400 KV KOLHAPUR-KUDGI D/C 0 0 0.0 0.0 50 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 51 220 KV PONDA-AMBEWADI S/C 90 0 2.0 0.0 TRANSNATIONAL EXCHANGE	33 34 35	HVDC HVDC 765 KV	APL -MHG GWALIOR-AGRA	D/C	0	3014	0.0		
40 400KV RAPP-SHUJALPUR D/C 0 0 0.0 0.0 0.0 0.0	33 34 35 36	HVDC HVDC 765 KV 765 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR	D/C D/C	0	3014 1232	0.0	39.1	-5 -3
BADOD-KOTA	33 34 35 36 37	HVDC HVDC 765 KV 765 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI	D/C D/C S/C	0 0 289	3014 1232 0	0.0 0.0 3.0	39.1 0.0	-3
BADOD-MORAK S/C 0 89 0.0 1.0	33 34 35 36 37 38	HVDC HVDC 765 KV 765 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND	D/C D/C S/C S/C S/C	0 0 289 241 0	3014 1232 0 8	0.0 0.0 3.0 3.0	39.1 0.0 0.0	-3
Malanpur-Auraiya	Import/I 33 34 35 36 37 38 39 40	HVDC HVDC 765 KV 765 KV 400 KV 400 KV	APL -MHG GWALIOR -AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR	D/C D/C S/C S/C S/C D/C	0 0 289 241 0	3014 1232 0 8 0	0.0 0.0 3.0 3.0 0.0 0.0	39.1 0.0 0.0 0.0 0.0	-(3
MEHGAON-AURAIYA S/C 70 0 1.0 0.0 44	33 34 35 36 37 38 39 40	HVDC HVDC 765 KV 765 KV 400 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL - RHINAND RAPP-SHUJALPUR BADOD-KOTA	D/C D/C S/C S/C S/C S/C S/C S/C	0 0 289 241 0 0	3014 1232 0 8 0 0 75	0.0 0.0 3.0 3.0 0.0 0.0	39.1 0.0 0.0 0.0 0.0 0.0	-3
March Marc	33 34 35 36 37 38 39 40 41	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RHAND RAPP-SHUALPUR BADOD-KOTA BADOD-MORAK	D/C D/C S/C S/C S/C S/C S/C S/C S/C D/C S/C	0 0 289 241 0 0 19	3014 1232 0 8 0 0 75 89	0.0 0.0 3.0 3.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 0.0 1.0	-3
WR-NR 7.0 163.0	33 34 35 36 37 38 39 40 41 42 43	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA	D/C D/C S/C S/C S/C S/C S/C S/C D/C S/C S/C S/C S/C	0 0 289 241 0 0 19 0 70	3014 1232 0 8 0 0 75 89	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 0.0 1.0 1.0	-3
Mathematic Mat	33 34 35 36 37 38 39 40 41 42 43	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/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	0 0 289 241 0 0 19 0 70 32	3014 1232 0 8 0 0 75 89 0	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 0.0 1.0 1.0 0.0 0	-3 3 () ()
46	33 34 35 36 37 38 39 40 41 42 43	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND RAPP-SHUJALPUR BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	D/C D/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	0 0 289 241 0 0 19 0 70 32	3014 1232 0 8 0 0 75 89 0 0	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0	-3
LINK BARSUR-L.SILERU - 0 0 0 0.0 0.0	33 34 35 36 37 38 39 40 41 42 43 44 45	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 100 KV	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	D/C D/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	0 0 289 241 0 0 19 0 70 32	3014 1232 0 8 0 0 75 89 0 0	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0	-1
48 765 KV SOLAPUR-RAICHUR D/C 0 2305 0.0 38.0 49 400 KV KOLHAPUR-KUDGI D/C 0 0 0.0 3.0 50 KOLHAPUR-CHIKODI D/C 0 0 0.0 0.0 51 220 KV PONDA-AMBEWADI S/C 0 0 0.0 0.0 52 XELDEM-AMBEWADI S/C 90 0 2.0 0.0 WR-SR 2.0 65.0 TRANSNATIONAL EXCHANGE	33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 100 KV	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)	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 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 0 WR-NR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 0.0 1.0 1.0 0.0 0	
49	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132 KV	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	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 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 0 WR-NR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
SO	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV LVDC LINK	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RHAND 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 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	0 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 0 WR-NR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0	
S1 220 KV PONDA-AMBEWADI S/C 0 0 0.0 0.0	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	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	D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 289 241 0 0 119 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 0 WR-NR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0	
S2 XELDEM-AMBEWADI S/C 90 0 2.0 0.0	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48 49	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	APL -MHG GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-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	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 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 0 75 89 0 0 0 WR-NR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0	
WR-SR 2.0 65.0	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48 49 50	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	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	D/C D/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	0 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 0 75 89 0 0 0 0 WR-NR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 0.0 1.0 0.0 163.0 24.0 0.0 38.0 3.0	
TRANSNATIONAL EXCHANGE 54 BHUTAN	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48 49 50 51	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 0 WR-NR 1000 0 2305 0	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 0.0 1.0 0.0 163.0 24.0 0.0 38.0 3.0 0.0	
54 BHUTAN	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48 49 50 51	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	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 S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 0 WR-NR 1000 0 2305 0 0	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 0.0 1.0 0.0 163.0 24.0 0.0 38.0 3.0 0.0 0.0	-1
	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48 49 50 51	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	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 XELDEM-AMBEWADI	D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 WR-NR 1000 2305 0 0 WR-SR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 0.0 1.0 0.0 163.0 24.0 0.0 38.0 3.0 0.0 0.0	-1
55 NEPAL	Import/I 33 34 35 36 37 38 39 40 41 42 43 44 45 Import/I 46 47 48 49 50 51 52	HVDC HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 400 KV 132KV Export of V HVDC LINK 765 KV	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 VR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 289 241 0 0 19 0 70 32 0	3014 1232 0 8 0 0 75 89 0 0 WR-NR 1000 2305 0 0 WR-SR	0.0 0.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0	39.1 0.0 0.0 0.0 1.0 0.0 1.0 0.0 163.0 24.0 0.0 38.0 3.0 0.0 0.0	-