

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 15.01.2017

Date of Reporting : 16.01.2017



I. Regional Availability/Demand:

Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
41587	567	42154	49.98	29781	457	30238	49.99	866.08	14.69

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	47.96	7.99	0.33	56.28	40.10	39.46	-0.63	95.74	0.00
Haryana	44.94	0.38	0.00	45.31	62.90	62.65	-0.25	107.96	0.00
Rajasthan	111.19	3.65	17.09	131.93	70.72	74.07	3.34	205.99	2.74
Delhi	11.27	0.00	0.00	11.27	48.66	49.06	0.40	60.32	0.02
UP	187.40	7.00	0.00	194.40	91.78	92.02	0.25	286.42	0.00
Uttarakhand	8.49	0.00	0.00	13.71	19.95	20.15	0.21	33.86	0.00
HP	4.77	0.97	0.00	4.77	19.92	19.85	-0.07	24.62	0.00
J & K	3.75	0.00	0.00	3.75	39.93	43.96	4.03	47.71	11.93
Chandigarh	0.00	0.00	0.00	0.00	3.50	3.46	-0.04	3.46	0.00
Total	402.75	36.02	18.39	461.40	397.45	404.68	7.23	866.08	14.69

* Shortage furnished by the respective constituent S Other include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	4909	0	-217	-753	2889	0	-93	-546	4909	19:00	0
Haryana	5490	0	-151	-279	3283	0	105	-543	6098	7:00	0
Rajasthan	9727	0	47	631	7435	0	130	783	9727	19:00	0
Delhi	2922	0	-34	-88	1481	0	-6	-624	3677	12:00	8
UP	13145	0	75	-277	10739	0	-32	92	13145	19:00	0
Uttarakhand	1800	0	53	320	1286	0	2	303	1800	19:00	0
HP	1147	0	-23	294	743	0	-26	516	1312	10:00	0
J&K	2268	567	311	841	1829	457	160	743	2268	19:00	567
Chandigarh	180	0	18	0	96	0	-8	0	201	9:00	0
Total	41587	567	79	689	29781	457	233	724	41587	19:00	567

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is 1.04

UI [OD:(+ve), UG: (-ve)]

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1890	2046	1341	42.40	1767	41.94	0.46
Rihand I STPS (2*500)	1000	878	873	729	18.59	775	18.96	-0.37
Rihand II STPS (2*500)	1000	958	966	619	20.07	836	20.50	-0.43
Rihand III STPS (2*500)	1000	958	963	661	20.44	852	20.49	-0.05
Dadri I STPS (4*210)	840	815	162	145	3.83	159	3.98	-0.16
Dadri II STPS (2*490)	980	980	362	356	9.14	381	9.89	-0.75
Unchahar I TPS (2*210)	420	202	163	128	3.64	152	4.01	-0.37
Unchahar II TPS (2*210)	420	405	305	281	6.69	279	7.23	-0.55
Unchahar III TPS (1*210)	210	203	132	135	3.18	133	3.68	-0.50
ISTPP (Jhajihar) (3*500)	1500	1440	0	0	-0.01	-1	0.00	-0.01
Dadri GPS (4*130.19+2*154.51)	830	829	302	186	5.30	221	5.66	-0.36
Anta GPS (3*88.71+1*153.2)	419	427	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	637	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	1	0	0	0.04	2	0.04	0.00
Singrauli Solar(15)	15	3	0	0	0.05	2	0.06	-0.01
KHEP(4*200)	800	872	870	649	2.72	113	2.62	0.10
Sub Total (A)	12112	11498	7144	5230	136	5671	139	-3.00
B. NPC								
NAPS (2*220)	440	422	458	457	10.07	420	10.13	-0.06
RAPS- B (2*220)	440	264	448	452	9.76	407	6.32	3.44
RAPS- C (2*220)	440	220	239	239	5.07	211	5.28	-0.22
Sub Total (B)	1320	906	1145	1145	24.90	1037	21.73	3.16
C. NHPC								
Chamera I HPS (3*180)	540	540	544	0	1.78	74	1.62	0.16
Chamera II HPS (3*100)	300	301	310	0	1.05	44	0.93	0.12
Chamera III HPS (3*77)	231	167	123	0	0.52	22	0.50	0.02
Bairasuli HPS(3*60)	180	179	182	0	0.48	20	0.46	0.02
Salal-HPS (6*115)	690	80	230	50	2.14	89	1.93	0.22
Tanakpur-HPS (3*31.4)	94	22	27	22	0.56	23	0.52	0.04
Uri-I HPS (4*120)	480	99	44	86	2.51	105	2.37	0.14
Uri-II HPS (4*60)	240	65	122	41	1.62	67	1.56	0.06
Dhauliganga-HPS (4*70)	280	210	0	0	0.00	0	0.77	-0.77
Dulhasti-HPS (3*130)	390	342	401	0	2.66	111	2.50	0.16
Sewa-II HPS (3*40)	120	90	39	0	0.18	7	0.27	-0.09
Parbati 3 (4*130)	520	130	0	0	0.00	0	0.39	-0.39
Sub Total (C)	4065	2224	2022	199	13	562	14	-0.33
D.SJVNL								
NJPC (6*250)	1500	1370	1211	0	6.14	256	6.20	-0.06
Rampur HEP (6*68.67)	412	375	341	0	1.72	72	1.72	0.00
Sub Total (D)	1912	1745	1552	0	7.86	328	7.92	-0.06
E. THDC								
Tehri HPS (4*250)	1000	976	963	0	8.54	356	8.50	0.04
Koteshwar HPS (4*100)	400	129	400	69	3.14	131	3.11	0.03
Sub Total (E)	1400	1105	1363	69	11.68	486	11.61	0.07
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	521	1075	381	13.06	544	12.50	0.56
Dehar HPS (6*165)	990	113	495	0	2.77	116	2.70	0.07
Pong HPS (6*								

	Rajpura (2*700)	1400	1320	660	25.35	1056
	Talwandi Saboo (3*660)	1980	616	616	18.81	784
	Thermal (Total)	6560	2119	1457	47.96	1998
	Total Hydro	1000	311	176	7.99	333
	Wind Power	0	0	0	0.00	0
	Biomass	288	13	13	0.31	13
	Solar	560	0	0	0.02	1
	Renewable(Total)	848	13	13	0.33	14
	Total Punjab	8408	2443	1646	56.28	2345
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	231	229	5.56	232
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	787	753	20.94	872
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	737	739	18.44	768
	Thermal (Total)	4497	1755	1721	44.94	1872
	Total Hydro	62	18	16	0.38	16
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	40	0	0	0.00	0
	Total Haryana	4599	1773	1737	45.31	1888
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1114	943	24.12	1005
	suratgarh TPS (6*250)	1500	207	185	4.95	206
	Chabra TPS (4*250)	1000	901	785	19.72	822
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	124	125	2.78	116
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.31	179
	Barsingar (NLC) (2*125)	250	226	226	5.19	216
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	718	379	13.72	572
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1138	823	23.13	964
	Kawai(Adani) (2*660)	1320	614	447	13.29	554
	Thermal (Total)	8876	5232	4103	111.19	4633
	Total Hydro	550	249	129	3.65	152
	Wind power	4017	429	906	15.35	639
	Biomass	99	13	13	0.31	13
	Solar	1295	0	0	1.43	60
	Renewable/Others (Total)	5411	442	919	17.09	712
	Total Rajasthan	14837	5923	5151	131.93	5497
UP	Anpara TPS (3*210+2*500)	1630	1367	1115	32.30	1346
	Obra TPS (2*50+2*94+5*200)	1194	515	431	11.70	488
	Paricha TPS (2*110+2*220+2*250)	1160	650	642	17.80	742
	Panki TPS (2*105)	210	135	135	3.40	142
	Harduaganj TPS (1*60+1*105+2*250)	665	389	407	10.70	446
	Tanda TPS (NTPC) (4*110)	440	383	272	8.10	337
	Roza TPS (IPP) (4*300)	1200	776	739	22.40	933
	Anpara-C (IPP) (2*600)	1200	1071	628	22.90	954
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	168	168	4.70	196
	Anpara-D(2*500)	1000	579	561	13.00	542
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	882	728	20.00	833
	Thermal (Total)	12449	6915	5826	167.00	6958
	Vishnuparyag HPS (IPP)(4*110)	440	78	73	1.80	75
	Alaknada(4*82.5)	330	76	0	1.00	42
	Other Hydro	527	112	237	4.20	175
	Cogeneration	981	850	850	20.40	850
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	Renewable(Total)	128	0	0	0.00	0
	Total UP	14855	8031	6986	194.40	8100
	Uttarakhand	Other Hydro	1250	468	338	8.49
Total Gas		225	267	178	5.22	217
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.00	0
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.00	0
Total Uttarakhand		1802	735	516	13.71	571
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	77	76	1.94	81
	Pragati Gas Turbine (2x104+ 1x122)	330	139	137	3.35	140
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	277	280	6.15	256
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-3	-0.17	-7
	Thermal (Total)	2917	489	490	11.27	469
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	18	0	0	0.00	0
Total Delhi	2935	489	490	11.27	469	
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.03	43
	Malana HPS (IPP) (2*43)	86	0	0	0.19	8
	Other Hydro	372	114	63	2.58	108
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	50	33	0.97	40
	Renewable(Total)	486	50	33	0.97	40
	Total HP	1244	164	95	4.77	199
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	116	117	2.80
Other Hydro/IPP(including 98 MW Small Hydro)		308	80	18	0.95	40
Gas/Diesel/Others		190	0	0	0.00	0
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)Included in Other Hydro Above		98	0	0	0.00	0
Renewable(Total)		98	0	0	0.00	0
Total J & K	1398	196	135	4	156	

Total State Control Area Generation	50078	19754	16756	461.40	19225
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5862	5787	197.08	8212
Total Regional Availability(Gross)	75315	41442	29717	880.31	36680

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8257	1298	59.92	2497
State Control Area Hydro	7163	1939	1377	36.02	1718
Total Regional Hydro	19397	10196	2675	95.93	4215

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	7356	505	965	18.39	766
Total Regional Renewable	7386	505	965	18.49	771

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-250	0	250	0.00	6.14	-6.14
765 KV Gwalior-Agra (D/C)	2300	2180	2991	0	59.78	0.00	59.78
400 KV Zerda-Kankroli	-35	-109	24	196	0.00	1.90	-1.90
400 KV Zerda-Bhimnal	4	-81	192	133	0.65	0.00	0.65
220 KV Auraiya-Malanpur	-87	-37	0	87	0.00	1.32	-1.32
220 KV Badod-Kota/Morak	-48	-24	30	64	0.00	0.64	-0.64
Mundra-Mohinderghar(HVDC Bipole)	2502	1899	2506	0.00	54.17	0.00	54.17
400 KV RAPPCC-Sujalpur	-340	-136	-410	0	7.40	0.00	7.40
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1211	1199	792	0	31.95	0.00	31.95
Sub Total WR	5257	4641			153.94	10.01	143.93
400 kV Sasaram - Varanasi	211	179	220	0	4.98	0.00	4.98
400 kV Sasaram - Allahabad	27	61	64	0	0.91	0.00	0.91
400 KV MZP- GKP (D/C)	10	300	350	34	5.34	0.00	5.34
400 KV Patna-Balia(D/C) X 2	583	677	713	0	15.83	0.00	15.83
400 KV B'Sharif-Balia (D/C)	-27	175	215	0	3.28	0.00	3.28
765 KV Gaya-Balia	200	314	375	0	7.09	0.00	7.09
765 KV Gaya-Varanasi (D/C)	-435	-494	744	0	14.56	0.00	14.56
220 KV Pusauli-Sahupuri	127	96	134	0	2.67	0.00	2.67
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-24	-26	0	36	0.00	0.67	-0.67
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-113	-30	109	135	0.00	0.14	-0.14
400 KV Barh -GKP (D/C)	472	458	540	0	11.16	0.00	11.16
400 kV B'Sharif - Varanasi (D/C)	74	-64	132	99	1.09	0.00	1.09
Sub Total ER	1105	1646			66.91	1.33	65.58
+/- 800 KV BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.44	-12.44
Sub Total NER	-500	-500			0.00	12.44	-12.44
Total IR Exch	5862	5787			220.85	23.77	197.08

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
43.92	0.44	44.35	0.41	-0.37	21.96	0.00	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
66.73	143.39	210.12	53.14	143.93	197.08	-13.59	0.55	-13.04

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-32	-27	0	38	0	1	-0.83

VII. Frequency Profile ----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	0.15	3.65	40.83	66.69	18.76	10.21	0.78	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.28	23.59	49.78	20.35	50.02	0.051	0.069	0.00	0.00	33.31

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	407	1:03	397	7:41	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	4:01	400	9:40	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	0:59	397	9:47	0.0	0.0	1.2	0.0	1.2
Kanpur	400	417	0:59	395	9:37	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	3:59	401	9:38	0.0	0.0	22.2	0.0	22.2
Ballabgarh	400	430	4:00	404	9:37	0.0	0.0	33.0	0.0	33.0
Bawana	400	425	3:44	401	9:38	0.0	0.0	19.7	0.0	19.7
Bassi	400	425	4:00	396	9:35	0.0	0.0	2.3	0.0	2.3
Hissar	400	423	4:03	397	12:43	0.0	0.0	1.4	0.0	1.4
Moga	400	415	19:38	402	12:15	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	427	3:03	405	12:15	0.0	0.0	27.6	0.0	27.6
Nalagarh	400	430	3:12	412	12:16	0.0	0.0	39.4	0.0	39.4
Kishenpur	400	419	2:28	397	12:14	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	17:49	367	10:34	36.3	85.6	0.0	0.0	36.3
Amritsar	400	429	3:07	406	12:14	0.0	0.0	33.8	0.0	33.8
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	2:27	413	5:49	0.0	0.0	22.5	0.0	22.5
Rishikesh	400	422	4:00	391	9:42	0.0	0.0	4.4	0.0	4.4

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	772	20:28	734	9:47	0.0	4.3	0.0	0.0	0.0
Balia	765	787	4:02	749	9:47	0.0	0.0	0.0	0.0	0.0
Moga	765	792	19:43	764	9:38	0.0	0.0	0.0	0.0	0.0

Agra	765	788	4:01	746	9:38	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	3:04	763	9:38	0.0	0.0	20.6	0.0	20.6
Unnao	765	775	4:02	730	9:46	0.0	23.9	0.0	0.0	0.0
Lucknow	765	800	4:00	758	9:47	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	20:26	762	9:38	0.0	0.0	11.6	0.0	11.6
Jhatikara	765	806	4:01	758	9:38	0.0	0.0	10.5	0.0	10.5
Bareilly 765 kV	765	796	4:02	750	9:38	0.0	0.0	0.0	0.0	0.0
Anta	765	796	3:58	758	9:33	0.0	0.0	0.0	0.0	0.0
Phagi	765	804	4:00	754	9:42	0.0	0.0	0.6	0.0	0.6

Note : '0' in Max / Min Col -> Telemetry Outage

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	485.33	593.99	498.69	1041.47	158.26	395.02
Pong	426.72	384.05	406.45	379.44	408.92	464.36	53.97	325.47
Tehri	829.79	740.04	802.30	652.19	795.70	544.69	24.18	207.00
Koteshwar	612.50	598.50	610.55	4.95	611.16	5.20	207.00	206.44
Chamera-I	760.00	748.75	759.20	0.00	0.00	0.00	42.21	49.25
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	503.55	1.61	496.56	1.83	35.37	72.75

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-547	1	0	-621	-131	0	-18.56	-0.42	-18.98
Delhi	-94	-529	0	-275	186	0	-3.83	0.92	-2.90
Haryana	-854	310	0	-517	238	0	-15.11	4.17	-10.94
HP	430	86	0	355	-60	0	11.61	-0.68	10.93
J&K	608	135	0	605	236	0	14.40	6.66	21.06
CHD	0	0	0	0	0	0	0.00	-0.13	-0.13
Rajasthan	299	484	0	191	440	0	12.90	11.30	24.20
UP	92	0	0	-177	-100	0	-8.33	-1.51	-9.84
Uttarakhand	214	88	0	186	133	0	5.05	2.53	7.58
Total	148	575	0	-253	942	0	-1.88	22.83	20.96

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-537	-1271	483	-621	0	0
Delhi	56	-298	892	-533	0	0
Haryana	-517	-854	318	-372	0	0
HP	690	326	115	-384	0	0
J&K	608	590	463	-15	0	0
CHD	0	0	24	-52	0	0
Rajasthan	1175	17	825	370	0	0
UP	123	-878	0	-100	0	0
Uttarakhand	310	147	335	11	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	12.15%
ER	0.00%
Simultaneous	4.86%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	3	21
Haryana	2	15
Rajasthan	2	31
Delhi	3	22
UP	0	11
Uttarakhand	1	19
HP	3	19
J & K	2	16
Chandigarh	5	34

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 15.01.2017 :

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

0

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 15.01.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER