पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 21.01.2017

Date of Reporting : 22.01.2017

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
43960	973	44933	49.98	30906	459	31365	49.99	916.37	15.58

* 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	58.80	8.31	0.29	67.40	39.26	38.99	-0.27	106.39	0.00
Haryana	53.78	0.31	0.00	54.09	68.11	68.42	0.31	122.51	0.00
Rajasthan	126.36	5.74	16.74	148.83	58.46	62.82	4.36	211.65	2.56
Delhi	10.47		0.00	10.47	55.08	55.31	0.23	65.78	0.01
UP	197.51	5.46	0.00	202.97	92.77	90.77	-2.00	293.75	0.00
Uttarakhand		8.57	0.00	13.53	23.42	23.39	-0.04	36.92	0.66
HP		3.75	0.00	3.75	21.11	22.30	1.19	26.05	0.00
J & K		3.77	0.00	3.77	40.64	45.63	5.00	49.40	12.35
Chandigarh				0.00	3.77	3.94	0.16	3.94	0.00
Total	**446.93**	**35.90**	**17.03**	**504.81**	**402.63**	**411.56**	**8.93**	**916.37**	15.58

* Shortage furnished by the respective constituent.$ Others 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	5637	0	-146	-669	3277	0	42	-541	5637	19:00	0
Haryana	6427	0	4	-288	3401	0	170	-506	6512	7:00	0
Rajasthan	9860	175	247	-176	7701	0	117	327	9886	8:00	0
Delhi	3242	0	-32	-87	1569	0	-16	-659	3862	11:00	0
UP	13194	0	-451	-231	11065	0	259	113	13680	7:00	0
Uttarakhand	1806	225	99	251	1228	0	-76	361	2000	9:00	0
HP	1296	0	79	-40	734	0	-11	552	1414	10:00	0
J&K	2292	573	409	934	1836	459	112	719	2323	8:00	581
Chandigarh	206	0	3	0	95	0	-3	0	230	10:00	0
Total	**43960**	**973**	**213**	**-307**	**30906**	**459**	**594**	**365**	**43960**	**19:00**	**973**

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

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III. Regional Entities :

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

	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1804	2046	1578	41.44	1727	40.94	0.50
	Rihand I STPS (2*500)	1000	717	486	744	15.28	637	15.47	-0.19
	Rihand II STPS (2*500)	1000	958	911	691	21.18	883	21.37	-0.19
	Rihand III STPS (2*500)	1000	963	987	782	21.62	901	21.52	0.10
	Dadri I STPS (4*210)	840	815	379	301	7.95	331	8.45	-0.50
	Dadri II STPS (2*490)	980	980	450	345	9.64	402	10.46	-0.82
	Unchahar I TPS (2*210)	420	407	401	277	8.04	335	8.92	-0.89
	Unchahar II TPS (2*210)	420	405	366	284	7.67	320	8.55	-0.88
	Unchahar III TPS (1*210)	210	203	211	133	3.70	154	4.27	-0.57
	ISTPP (Jhajjhar) (3*500)	1500	1440	0	0	0.00	0	0.00	0.00
	Dadri GPS (4*130.19+2*154.51)	830	812	174	154	3.59	149	4.01	-0.43
	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	641	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.00	0	0.02	-0.02
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar(15)	15	2	0	0	0.05	2	0.04	0.01
	KHEP(4*200)	800	834	864	0	2.66	111	2.62	0.04
	Sub Total (A)	**12112**	**11408**	**7275**	**5289**	**143**	**5952**	**147**	**-3.84**
B. NPC	NAPS (2*220)	440	420	454	459	10.07	420	10.08	-0.01
	RAPS- B (2*220)	440	408	447	452	9.73	405	9.79	-0.07
	RAPS- C (2*220)	440	220	237	241	4.81	200	5.28	-0.47
	Sub Total (B)	**1320**	**1048**	**1138**	**1152**	**24.60**	**1025**	**25.15**	**-0.55**
C. NHPC	Chamera I HPS (3*180)	540	540	553	0	1.82	76	1.62	0.20
	Chamera II HPS (3*100)	300	301	309	0	1.03	43	0.93	0.10
	Chamera III HPS (3*77)	231	154	151	0	0.50	21	0.46	0.04
	Bairasuil HPS(3*60)	180	120	125	0	0.51	21	0.46	0.05
	Salal-HPS (6*115)	690	80	230	70	2.32	97	1.93	0.40
	Tanakpur-HPS (3*31.4)	94	20	24	19	0.55	23	0.48	0.07
	Uri-I HPS (4*120)	480	111	230	85	2.80	117	2.65	0.14
	Uri-II HPS (4*60)	240	70	121	40	1.71	71	1.68	0.03
	Dhauliganga-HPS (4*70)	280	140	141	0	0.70	29	0.74	-0.03
	Dulhasti-HPS (3*130)	390	257	266	0	2.54	106	2.40	0.14
	Sewa-II HPS (3*40)	120	119	81	0	0.35	15	0.36	0.00
	Parbati 3 (4*130)	520	130	131	0	0.40	17	0.39	0.01
	Sub Total (C)	**4065**	**2042**	**2363**	**214**	**15**	**635**	**14**	**1.15**
D.SJVNL	NJPC (6*250)	1500	1370	1343	0	5.90	246	6.00	-0.10
	Rampur HEP (6*68.67)	412	375	373	0	1.66	69	1.65	0.00
	Sub Total (D)	**1912**	**1745**	**1716**	**0**	**7.56**	**315**	**7.65**	**-0.09**
E. THDC	Tehri HPS (4*250)	1000	958	933	0	9.01	376	9.00	0.01
	Koteshwar HPS (4*100)	400	133	387	70	3.18	133	3.20	-0.02
	Sub Total (E)	**1400**	**1091**	**1320**	**70**	**12.20**	**508**	**12.20**	**0.00**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	541	1144	379	13.59	566	12.98	0.60
	Dehar HPS (6*165)	990	119	330	0	2.95	123	2.86	0.09
	Pong HPS (6*66)	396	171	396	0	4.07	170	4.11	-0.04
	Sub Total (F)	**2765**	**831**	**1870**	**379**	**20.61**	**859**	**19.95**	**0.65**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.37	15	0.36	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.01	125	3.32	-0.31
	Malana Stg-II HPS (2*50)	100	0	0	0	0.18	7	0.16	0.01
	Shree Cement TPS (2*150)	300	0	217	149	4.07	169	4.33	-0.26
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.18	8	0.19	-0.01
	Sub Total (G)	**1662**	**0**	**847**	**149**	**7.80**	**325**	**8.35**	**-0.55**
H. Total Regional Entities (A-G)		**25237**	**18166**	**16529**	**7253**	**230.86**	**9619**	**234.09**	**-3.23**

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	-0.12	-5
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	800	540	17.29	720
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	1320	660	25.86	1078
	Talwandi Saboo (3*660)	1980	700	616	15.81	659
	Thermal (Total)	**6560**	**2820**	**1816**	58.80	**2450**
	Total Hydro	1000	335	212	8.31	346
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.23	10
	Solar	560	0	0	0.06	2
	Renewable(Total)	**848**	**0**	**0**	**0.29**	**12**
	Total Punjab	**8408**	**3155**	**2028**	**67.40**	**2808**
Haryana	Panipat TPS (2*210+2*250)	920	225	201	4.60	192
	DCRTPP (Yamuna nagar) (2*300)	600	558	458	11.97	499
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	571	386	13.63	568
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1150	738	23.58	982
	Thermal (Total)	**4497**	**2504**	**1783**	**53.78**	**2241**
	Total Hydro	62	10	12	0.31	13
	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**	**2514**	**1795**	**54.09**	**2254**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	979	894	22.08	920
	suratgarh TPS (6*250)	1500	220	185	5.16	215
	Chabra TPS (4*250)	1000	907	782	21.00	875
	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	162	152	3.57	149
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.39	183
	Barsingsar (NLC) (2*125)	250	227	227	5.32	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	756	465	16.65	694
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1140	827	24.71	1029
	Kawai(Adani) (2*660)	1320	1170	822	23.50	979
	Thermal (Total)	**8876**	**5751**	**4544**	**126.36**	**5265**
	Total Hydro	550	293	247	5.74	239
	Wind power	4017	454	1102	16.58	691
	Biomass	99	7	7	0.16	7
	Solar	1295	0	0	0.00	0
	Renewable/Others (Total)	5411	461	1109	16.74	697
	Total Rajasthan	**14837**	**6505**	**5900**	**148.83**	**6201**
UP	Anpara TPS (3*210+2*500)	1630	1434	1105	32.17	1340
	Obra TPS (2*50+2*94+5*200)	1194	667	569	14.78	616
	Paricha TPS (2*110+2*220+2*250)	1160	582	576	16.03	668
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	401	420	11.31	471
	Tanda TPS (NTPC) (4*110)	440	387	276	8.59	358
	Roza TPS (IPP) (4*300)	1200	896	756	22.61	942
	Anpara-C (IPP) (2*600)	1200	1063	630	24.11	1005
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	141	141	3.85	160
	Anpara-D(2*500)	1000	399	431	9.74	406
	Lalitpur TPS(3*660)	1980	441	397	9.83	410
	Bara(2*660)	1320	1063	728	24.11	1005
	Thermal (Total)	**12449**	**7474**	**6029**	**177.11**	**7380**
	Vishnuparyag HPS (IPP)(4*110)	440	73	68	1.68	70
	Alaknanada(4*82.5)	330	77	0	1.04	43
	Other Hydro	527	78	152	2.74	114
	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**	**8552**	**7099**	**202.97**	**8457**
Uttarakhand	Other Hydro	1250	581	255	8.57	357
	Total Gas	225	161	246	4.93	205
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.04	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.04	2
	Total Uttarakhand	1802	742	501	13.53	564
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	38	37	0.85	36
	Pragati Gas Turbine (2x104+ 1x122)	330	155	160	3.57	149
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	260	280	6.07	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**453**	**477**	**10.47**	**436**
	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**	**453**	**477**	**10.47**	**436**
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.96	40
	Malana HPS (IPP) (2*43)	86	0	0	0.18	7
	Other Hydro	372	129	37	2.61	109
	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	0	0	0.00	0
	Renewable(Total)	**486**	**0**	**0**	**0.00**	**0**
	Total HP	**1244**	**129**	**37**	**3.75**	**156**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	118	117	2.82	117
	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**	**198**	**135**	**4**	**157**

Total State Control Area Generation	**50078**	**22248**	**17972**	**504.81**	**21034**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		**7593.8**	**7173.63**	**204.17**	**8507**
Total Regional Availability(Gross)	**75315**	**46370**	**32399**	**939.84**	**39160**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8763**	**663**	**61.81**	**2576**
State Control Area Hydro	**7163**	**1935**	**1364**	**35.90**	**1702**
Total Regional Hydro	**19397**	**10698**	**2027**	**97.71**	**4278**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.09**	**4**
State Control Area Renewable	**7356**	**461**	**1109**	**17.06**	**711**
Total Regional Renewable	**7386**	**461**	**1109**	**17.15**	**715**

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	100	-400	200	400	0.95	4.23	-3.27
765 KV Gwalior-Agra (D/C)	2292	2582	2925	0	63.96	0.00	63.96
400 KV Zerda-Kankroli	85	153	0	241	0.00	2.78	-2.78
400 KV Zerda-Bhinmal	-58	-148	98	173	0.00	0.67	-0.67
220 KV Auraiya-Malanpur	-74	-25	0	78	0.00	1.01	-1.01
220 KV Badod-Kota/Morak	43	34	39	113	0.92	0.00	0.92
Mundra-Mohindergarh(HVDC Bipole)	2498	1602	2506	0.00	56.15	0.00	56.15
400 KV RAPPC-Sujalpur	332	137	420	0	6.89	0.00	6.89
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1010	1135	1497	0	29.60	0.00	29.60
Sub Total WR	**6228**	**5070**			**158.47**	**8.69**	**149.78**
400 kV Sasaram - Varanasi	201	189	230	0	6.92	0.00	6.92
400 kV Sasaram - Allahabad	94	44	94	0	1.22	0.00	1.22
400 KV MZP- GKP (D/C)	-8	300	568	28	6.23	0.00	6.23
400 KV Patna-Balia(D/C) X 2	586	717	835	0	16.03	0.00	16.03
400 KV B'Sharif-Balia (D/C)	-41	116	272	41	2.82	0.00	2.82
765 KV Gaya-Balia	151	275	346	0	6.63	0.00	6.63
765 KV Gaya-Varanasi (D/C)	390	490	767	0	12.87	0.00	12.87
220 KV Pusauli-Sahupuri	133	103	136	0	2.66	0.00	2.66
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-40	-27	0	40	0.00	0.76	-0.76
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-135	-72	197	147	0.00	0.07	-0.07
400 KV Barh -GKP (D/C)	468	504	576	0	11.47	0.00	11.47
400 kV B'Sharif - Varanasi (D/C)	67	-35	205	97	0.83	0.00	0.83
Sub Total ER	**1866**	**2604**			**67.67**	**1.33**	**66.34**
+/- 800 KV BiswanathCharialli-Agra	-500	-500	0	500.00	0.00	11.95	-11.95
Sub Total NER	**-500**	**-500**			**0.00**	**11.95**	**-11.95**
Total IR Exch	**7594**	**7174**			**226.14**	**21.97**	**204.17**

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
45.22	0.36	45.57	-0.74	-2.70	16.30	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
61.13	139.86	200.99	54.39	149.78	204.17	-6.74	9.92	3.18

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-15	-16	0	17	0	1	-0.87

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	0.00	3.69	42.87	68.36	21.38	6.62	0.00	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Frequency	Variation		MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.18	17.03	49.83	18.11	50.01	0.037	0.060	50.10	49.91	31.64

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	409	2:13	399	9:13	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	1:00	405	9:09	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	1:18	399	14:15	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	2:31	397	10:16	0.0	0.0	0.0	0.0	0.0
Dadri	400	429	3:04	401	12:06	0.0	0.0	23.9	0.0	23.9
Ballabhgarh	400	433	2:31	403	10:22	0.0	0.0	33.0	10.6	33.0
Bawana	400	428	3:02	402	12:06	0.0	0.0	23.0	0.0	23.0
Bassi	400	425	4:02	394	10:20	0.0	0.0	12.1	0.0	12.1
Hissar	400	422	2:32	398	12:06	0.0	0.0	2.2	0.0	2.2
Moga	400	415	19:54	401	14:15	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	2:26	408	14:13	0.0	0.0	26.2	0.0	26.2
Nalagarh	400	431	3:27	410	14:22	0.0	0.0	38.1	0.7	38.1
Kishenpur	400	422	1:44	395	14:20	0.0	0.0	0.2	0.0	0.2
Wagoora	400	401	1:44	362	14:37	60.4	99.0	0.0	0.0	60.4
Amritsar	400	425	1:44	398	14:14	0.0	0.0	17.5	0.0	17.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	1:44	389	14:38	0.0	0.1	7.6	0.0	7.6
Rishikesh	400	420	2:26	395	9:08	0.0	0.0	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	774	23:52	738	10:18	0.0	1.0	0.0	0.0	0.0
Balia	765	789	2:32	756	8:44	0.0	0.0	0.0	0.0	0.0
Moga	765	792	20:01	763	14:42	0.0	0.0	0.0	0.0	0.0

Agra	765	789	23:54	748	10:18	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	2:41	768	11:19	0.0	0.0	15.5	0.0	15.5
Unnao	765	781	1:42	734	9:08	0.0	25.5	0.0	0.0	0.0
Lucknow	765	802	1:44	766	8:45	0.0	0.0	2.1	0.0	2.1
Meerut	765	811	23:58	766	5:41	0.0	0.0	2.8	0.0	2.8
Jhatikara	765	806	2:32	760	10:21	0.0	0.0	15.2	0.0	15.2
Bareilly 765 kV	765	800	1:21	763	8:48	0.0	0.0	0.0	0.0	0.0
Anta	765	789	1:05	759	8:38	0.0	0.0	0.0	0.0	0.0
Phagi	765	802	2:33	756	10:17	0.0	0.0	5.0	0.0	5.0

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

IX. Reservior Parameters:

Name of Reservior	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	483.98	560.76	497.39	994.96	144.70	434.49
Pong	426.72	384.05	405.84	361.16	407.46	416.46	46.89	282.18
Tehri	829.79	740.04	799.70	603.61	792.90	496.78	36.23	221.00
Koteshwar	612.50	598.50	609.90	4.44	610.71	4.95	221.00	209.60
Chamera-I	760.00	748.75	759.02	0.00	0.00	0.00	45.39	48.90
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	502.91	1.86	496.06	0.39	39.48	86.53

*** 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	-544	2	0	-618	-51	0	-18.45	-0.02	-18.47
Delhi	-94	-565	0	-276	188	0	-3.86	0.26	-3.60
Haryana	-847	342	0	-513	224	0	-15.01	4.48	-10.53
HP	482	70	0	348	-388	0	12.01	-0.83	11.17
J&K	612	107	0	608	325	0	15.51	4.95	20.46
CHD	0	0	0	0	0	0	0.00	0.02	0.02
Rajasthan	24	303	0	16	-192	0	11.02	2.02	13.04
UP	113	0	0	-131	-100	0	-8.83	-1.82	-10.65
Uttarakhand	312	50	0	15	236	0	3.98	7.83	11.81
Total	**57**	**308**	**0**	**-549**	**243**	**0**	**-3.63**	**16.90**	**13.26**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-534	-1264	146	-103	0	0
Delhi	-19	-288	701	-604	0	0
Haryana	-392	-847	343	-373	0	0
HP	726	240	140	-502	0	0
J&K	748	593	451	-15	0	0
CHD	0	0	58	-31	0	0
Rajasthan	1138	-7	303	-1122	0	0
UP	145	-1006	0	-100	0	0
Uttarakhand	312	0	637	21	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	**13.54%**
ER	**0.00%**
Simultaneous	**11.46%**

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

WR	**44.44%**
ER	**0.00%**
Simultaneous	**45.49%**

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

Rihand - Dadri	**0.00%**

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	24
Haryana	1	13
Rajasthan	4	34
Delhi	1	17
UP	3	17
Uttarakhand	2	25
HP	4	30
J & K	5	41
Chandigarh	4	41

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 21.01.2017 :

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 : 21.01.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER