पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 20.12.2016
Date of Reporting : 21.12.2016

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
42125	437	42562	50.05	29552	370	29922	50.06	863.83	9.38

* 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	55.86	8.69	0.35	64.90	37.03	38.36	1.32	103.25	0.00
Haryana	44.15	0.32	0.00	44.47	73.39	72.91	-0.49	117.38	0.00
Rajasthan	122.71	5.03	9.45	137.19	70.61	72.35	1.74	209.55	0.00
Delhi	14.24		0.00	14.24	43.63	45.36	1.73	59.59	0.03
UP	180.20	7.34	0.00	187.54	88.37	88.82	0.45	276.37	0.42
Uttarakhand		8.08	0.00	14.24	17.76	19.07	1.32	33.31	0.00
HP		2.13	1.43	3.56	20.99	21.60	0.61	25.16	0.00
J & K		3.20	0.00	3.20	38.13	32.52	-5.61	35.72	8.93
Chandigarh				0.00	3.40	3.51	0.11	3.51	0.00
Total	**417.16**	**34.79**	**11.23**	**469.33**	**393.32**	**394.50**	**1.19**	**863.83**	9.38

* 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	5397	0	-38	-708	3049	0	37	-624	5397	19:00	0
Haryana	5996	0	79	-335	3244	0	-12	-618	6086	7:00	0
Rajasthan	9619	0	245	319	8018	0	245	337	9619	19:00	0
Delhi	3086	0	68	-309	1358	0	14	-558	3387	11:00	0
UP	13083	0	-220	-231	10446	0	50	104	13088	7:00	10
Uttarakhand	1723	0	67	259	1117	0	31	278	1835	8:00	0
HP	1284	0	-8	389	752	0	-30	588	1385	8:00	0
J&K	1748	437	-108	878	1481	370	-108	840	1748	19:00	437
Chandigarh	188	0	4	0	86	0	-1	0	203	8:00	0
Total	**42125**	**437**	**89**	**262**	**29552**	**370**	**227**	**348**	**42125**	**19:00**	**437**

* 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	1857	1970	1828	43.87	1828	43.28	0.59
	Rihand I STPS (2*500)	1000	814	882	629	18.23	760	18.10	0.14
	Rihand II STPS (2*500)	1000	950	998	722	21.50	896	21.23	0.27
	Rihand III STPS (2*500)	1000	590	493	739	12.70	529	12.62	0.07
	Dadri I STPS (4*210)	840	815	210	164	4.20	175	4.40	-0.21
	Dadri II STPS (2*490)	980	980	938	705	18.28	762	19.17	-0.89
	Unchahar I TPS (2*210)	420	363	294	279	7.28	303	7.80	-0.52
	Unchahar II TPS (2*210)	420	405	301	269	7.48	312	8.16	-0.68
	Unchahar III TPS (1*210)	210	203	143	134	3.78	158	4.15	-0.36
	ISTPP (Jhajjhar) (3*500)	1500	1440	998	627	16.93	705	17.20	-0.27
	Dadri GPS (4*130.19+2*154.51)	830	765	296	249	6.40	267	6.89	-0.49
	Anta GPS (3*88.71+1*153.2)	419	412	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	626	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	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar(15)	15	2	0	0	0.06	2	0.04	0.02
	KHEP(4*200)	800	870	780	0	2.72	113	2.61	0.11
	Sub Total (A)	**12112**	**11092**	**8303**	**6345**	**163**	**6811**	**166**	**-2.23**
B. NPC	NAPS (2*220)	440	419	451	464	10.04	418	10.06	-0.02
	RAPS- B (2*220)	440	386	429	430	9.25	386	9.26	-0.01
	RAPS- C (2*220)	440	230	239	240	5.08	211	5.52	-0.44
	Sub Total (B)	**1320**	**1035**	**1119**	**1134**	**24.36**	**1015**	**24.84**	**-0.48**
C. NHPC	Chamera I HPS (3*180)	540	360	368	0	1.48	62	1.30	0.18
	Chamera II HPS (3*100)	300	201	205	0	1.20	50	1.10	0.10
	Chamera III HPS (3*77)	231	185	180	0	0.58	24	0.56	0.03
	Bairasuil HPS(3*60)	180	120	121	0	0.43	18	0.40	0.03
	Salal-HPS (6*115)	690	87	310	35	2.38	99	2.09	0.29
	Tanakpur-HPS (3*31.4)	94	23	25	32	0.68	28	0.54	0.14
	Uri-I HPS (4*120)	480	68	230	24	1.91	80	1.64	0.27
	Uri-II HPS (4*60)	240	51	121	40	1.28	53	1.22	0.07
	Dhauliganga-HPS (4*70)	280	210	210	0	0.97	41	0.88	0.10
	Dulhasti-HPS (3*130)	390	257	266	0	2.97	124	2.80	0.17
	Sewa-II HPS (3*40)	120	80	38	0	0.17	7	0.25	-0.08
	Parbati 3 (4*130)	520	130	129	0	0.42	17	0.39	0.03
	Sub Total (C)	**4065**	**1772**	**2203**	**130**	**14**	**603**	**13**	**1.32**
D.SJVNL	NJPC (6*250)	1500	1615	1602	0	6.46	269	6.44	0.02
	Rampur HEP (6*68.67)	412	442	445	0	1.82	76	1.78	0.04
	Sub Total (D)	**1912**	**2057**	**2047**	**0**	**8.28**	**345**	**8.22**	**0.06**
E. THDC	Tehri HPS (4*250)	1000	1025	692	0	7.02	292	6.83	0.19
	Koteshwar HPS (4*100)	400	117	150	0	2.46	102	2.41	0.05
	Sub Total (E)	**1400**	**1142**	**842**	**0**	**9.47**	**395**	**9.24**	**0.23**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	595	992	358	14.32	597	14.27	0.05
	Dehar HPS (6*165)	990	101	330	0	2.48	103	2.42	0.06
	Pong HPS (6*66)	396	189	396	66	4.40	183	4.53	-0.13
	Sub Total (F)	**2765**	**884**	**1718**	**424**	**21.20**	**883**	**21.21**	**-0.02**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.00	0	0.41	-0.41
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.41	142	3.56	-0.14
	Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS (2*150)	300	0	-1	0	-0.04	-2	0.00	-0.04
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.15	6	0.16	0.00
	Sub Total (G)	**1662**	**0**	**629**	**0**	**3.53**	**147**	**4.13**	**-0.59**
H. Total Regional Entities (A-G)		**25237**	**17981**	**16862**	**8033**	**244.79**	**10200**	**246.50**	**-1.71**

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	160	160	3.97	165
	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	202	204	4.96	207
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	330	14.09	587
	Talwandi Saboo (3*660)	1980	1520	924	32.88	1370
	Thermal (Total)	**6560**	**2542**	**1618**	55.86	**2328**
	Total Hydro	1000	351	329	8.69	362
	Wind Power	0	0	0	0.00	0
	Biomass	288	12	12	0.29	12
	Solar	560	0	0	0.06	2
	Renewable(Total)	**848**	**12**	**12**	**0.35**	**14**
	Total Punjab	**8408**	**2905**	**1959**	**64.90**	**2704**
Haryana	Panipat TPS (2*210+2*250)	920	465	410	10.55	440
	DCRTPP (Yamuna nagar) (2*300)	600	554	482	12.58	524
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	866	742	21.03	876
	Thermal (Total)	**4497**	**1885**	**1634**	**44.15**	**1840**
	Total Hydro	62	10	8	0.32	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**	**1895**	**1642**	**44.47**	**1853**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1110	950	25.90	1079
	suratgarh TPS (6*250)	1500	871	779	20.23	843
	Chabra TPS (4*250)	1000	891	742	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	168	170	4.13	172
	RAPS A (NPC) (1*100+1*200)	300	169	171	4.24	177
	Barsingsar (NLC) (2*125)	250	113	113	2.60	109
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	815	730	18.18	758
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1124	1130	26.42	1101
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**8876**	**5261**	**4785**	**122.71**	**5113**
	Total Hydro	550	255	215	5.03	210
	Wind power	4017	303	423	6.81	284
	Biomass	99	0	0	0.00	0
	Solar	1295	0	0	2.65	110
	Renewable/Others (Total)	5411	303	423	9.45	394
	Total Rajasthan	**14837**	**5819**	**5423**	**137.19**	**5716**
UP	Anpara TPS (3*210+2*500)	1630	1160	1194	28.25	1177
	Obra TPS (2*50+2*94+5*200)	1194	338	284	7.40	308
	Paricha TPS (2*110+2*220+2*250)	1160	790	573	17.00	708
	Panki TPS (2*105)	210	0	0	0.02	1
	Harduaganj TPS (1*60+1*105+2*250)	665	532	406	11.60	483
	Tanda TPS (NTPC) (4*110)	440	370	230	7.11	296
	Roza TPS (IPP) (4*300)	1200	1103	752	24.05	1002
	Anpara-C (IPP) (2*600)	1200	1067	630	22.39	933
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	81	58	1.68	70
	Anpara-D(2*500)	1000	844	864	20.66	861
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	874	874	20.85	869
	Thermal (Total)	**12449**	**7159**	**5865**	**161.00**	**6708**
	Vishnuparyag HPS (IPP)(4*110)	440	88	88	2.14	89
	Alaknanada(4*82.5)	330	76	0	1.17	49
	Other Hydro	527	189	156	4.03	168
	Cogeneration	981	800	800	19.20	800
	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**	**8312**	**6909**	**187.54**	**7814**
Uttarakhand	Other Hydro	1250	565	236	8.08	337
	Total Gas	225	248	256	6.11	255
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.05	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.05	2
	Total Uttarakhand	1802	813	492	14.24	593
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	78	80	1.98	82
	Pragati Gas Turbine (2x104+ 1x122)	330	150	265	6.03	251
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.24	260
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**478**	**625**	**14.24**	**593**
	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**	**478**	**625**	**14.24**	**593**
HP	Baspa HPS (IPP) (3*100)	300	31	0	1.02	43
	Malana HPS (IPP) (2*43)	86	42	0	0.24	10
	Other Hydro	372	51	9	0.86	36
	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	67	53	1.43	60
	Renewable(Total)	**486**	**67**	**53**	**1.43**	**60**
	Total HP	**1244**	**191**	**62**	**3.56**	**148**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	101	88	2.19	91
	Other Hydro/IPP(including 98 MW Small Hydro)	308	80	22	1.01	42
	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**	**181**	**110**	**3**	**133**

Total State Control Area Generation	**50078**	**20594**	**17222**	**469.33**	**19555**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		**6375.86**	**6306.74**	**186.73**	**7781**
Total Regional Availability(Gross)	**75315**	**43832**	**31562**	**900.86**	**37536**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8221**	**554**	**59.56**	**2482**
State Control Area Hydro	**7163**	**2154**	**1460**	**36.22**	**1766**
Total Regional Hydro	**19397**	**10375**	**2014**	**95.78**	**4247**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.11**	**5**
State Control Area Renewable	**7356**	**382**	**488**	**11.28**	**470**
Total Regional Renewable	**7386**	**382**	**488**	**11.39**	**475**

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)	-500	-500	0	500	0.00	12.19	-12.19
765 KV Gwalior-Agra (D/C)	1780	1884	2618	0	53.96	0.00	53.96
400 KV Zerda-Kankroli	-82	-161	0	196	0.00	3.07	-3.07
400 KV Zerda-Bhinmal	-63	-46	80	102	0.00	0.51	-0.51
220 KV Auraiya-Malanpur	-89	-91	0	115	0.00	2.02	-2.02
220 KV Badod-Kota/Morak	-27	-36	1	54	0.00	0.76	-0.76
Mundra-Mohindergarh(HVDC Bipole)	2298	1805	2307	0.00	50.16	0.00	50.16
400 KV RAPPC-Sujalpur	299	154	418	0	7.22	0.00	7.22
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1111	1154	796	0	32.30	0.00	32.30
Sub Total WR	**4727**	**4163**			**143.63**	**18.55**	**125.08**
400 kV Sasaram - Varanasi	199	186	204	0	4.46	0.00	4.46
400 kV Sasaram - Allahabad	40	53	88	0	1.46	0.00	1.46
400 KV MZP- GKP (D/C)	128	344	451	0	7.49	0.00	7.49
400 KV Patna-Balia(D/C) X 2	676	712	802	0	18.34	0.00	18.34
400 KV B'Sharif-Balia (D/C)	82	122	123	0	4.17	0.00	4.17
765 KV Gaya-Balia	177	222	355	0	6.54	0.00	6.54
765 KV Gaya-Varanasi (D/C)	303	429	787	0	12.57	0.00	12.57
220 KV Pusauli-Sahupuri	165	110	228	0	3.44	0.00	3.44
132 KV K'nasa-Sahupuri	-34	-28	0	34	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-20	-22	0	30	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-56	52	271	56	2.53	0.00	2.53
400 KV Barh -GKP (D/C)	440	510	574	0	12.00	0.00	12.00
400 kV B'Sharif - Varanasi (D/C)	49	-46	195	49	1.72	0.00	1.72
Sub Total ER	**2149**	**2644**			**74.71**	**1.05**	**73.66**
+/- 800 KV BiswanathCharialli-Agra	-500	-500	0	500.00	0.00	12.01	-12.01
Sub Total NER	**-500**	**-500**			**0.00**	**12.01**	**-12.01**
Total IR Exch	**6376**	**6307**			**218.34**	**31.61**	**186.73**

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**
44.00	0.74	44.74	2.54	-8.37	15.23	11.89	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**
62.51	126.76	189.26	61.65	125.08	186.73	-0.86	-1.67	-2.53

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	30	29	0	32	0	1	-0.68

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	0.08	8.63	54.74	69.77	17.12	4.25	0.32	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)	
50.24	17.01	49.79	15.16	49.99	0.045	0.067	50.10	49.91	30.23

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	405	0:00	398	8:35	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	1:52	396	18:04	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	4:01	396	10:05	0.0	0.0	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	2:52	404	10:03	0.0	0.0	22.1	0.0	22.1
Ballabhgarh	400	430	4:02	405	10:06	0.0	0.0	39.0	0.0	39.0
Bawana	400	429	2:55	408	6:26	0.0	0.0	21.4	0.0	21.4
Bassi	400	426	4:04	399	6:28	0.0	0.0	5.9	0.0	5.9
Hissar	400	423	4:03	397	10:07	0.0	0.0	2.7	0.0	2.7
Moga	400	425	3:02	402	10:05	0.0	0.0	10.2	0.0	10.2
Abdullapur	400	429	3:01	408	6:22	0.0	0.0	37.2	0.0	37.2
Nalagarh	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kishenpur	400	428	23:03	399	10:05	0.0	0.0	6.6	0.0	6.6
Wagoora	400	431	14:06	109	13:22	25.5	68.2	0.6	0.0	26.0
Amritsar	400	430	3:54	405	10:05	0.0	0.0	37.3	0.0	37.3
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	425	20:28	408	17:57	0.0	0.0	8.3	0.0	8.3
Rishikesh	400	420	3:01	394	10:05	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	776	4:01	732	10:07	0.0	8.5	0.0	0.0	0.0
Balia	765	782	2:03	748	10:07	0.0	0.0	0.0	0.0	0.0
Moga	765	802	4:21	763	10:09	0.0	0.0	0.8	0.0	0.8

Agra	765	794	4:01	749	10:08	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	2:52	768	9:22	0.0	0.0	16.9	0.0	16.9
Unnao	765	765	2:03	727	10:06	0.2	14.6	0.0	0.0	0.2
Lucknow	765	787	3:01	749	10:06	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	0:36	762	10:20	0.0	0.0	15.6	0.0	15.6
Jhatikara	765	806	3:01	762	10:05	0.1	0.1	7.0	0.0	7.1
Bareilly 765 kV	765	787	3:01	746	10:04	0.0	0.0	0.0	0.0	0.0
Anta	765	798	17:05	767	6:26	0.0	0.0	0.0	0.0	0.0
Phagi	765	805	4:01	763	6:32	0.0	0.0	6.6	0.0	6.6

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	490.70	758.57	503.08	1232.31	157.84	464.40
Pong	426.72	384.05	409.46	474.29	412.81	588.94	45.56	298.23
Tehri	829.79	740.04	812.35	849.28	806.75	738.86	38.84	161.00
Koteshwar	612.50	598.50	611.27	5.20	610.69	4.92	161.00	161.74
Chamera-I	760.00	748.75	759.92	0.00	0.00	0.00	43.31	39.79
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	506.69	2.98	501.34	3.78	39.88	108.71

*** 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	-625	2	0	-708	0	0	-18.36	2.63	-15.73
Delhi	-184	-375	0	-274	-35	0	-5.75	-1.79	-7.54
Haryana	-957	339	0	-662	328	0	-18.25	8.13	-10.12
HP	516	71	0	401	-12	0	12.71	-1.31	11.40
J&K	608	232	0	603	275	0	14.73	4.95	19.67
CHD	0	0	0	0	0	0	0.00	0.13	0.13
Rajasthan	-7	344	0	-7	326	0	4.29	16.34	20.63
UP	104	0	0	-132	-100	0	-7.76	-1.30	-9.05
Uttarakhand	320	-41	0	320	-60	0	7.80	-0.38	7.42
Total	**-225**	**573**	**0**	**-460**	**722**	**0**	**-10.58**	**27.39**	**16.81**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-605	-997	484	0	0	0
Delhi	-140	-365	256	-401	0	0
Haryana	-636	-982	365	-24	0	0
HP	659	377	71	-664	0	0
J&K	646	590	339	-98	0	0
CHD	0	0	29	-41	0	0
Rajasthan	440	-7	1313	322	0	0
UP	134	-889	0	-100	0	0
Uttarakhand	351	320	151	-205	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	**0.00%**
ER	**2.78%**
Simultaneous	**1.04%**

(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	1	14
Haryana	0	11
Rajasthan	2	16
Delhi	5	40
UP	1	16
Uttarakhand	5	37
HP	4	41
J & K	4	21
Chandigarh	5	69

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 20.12.2016 :

XVI. Synchronisation of new generating units :

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

0
0.00
0
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 : 20.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER