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 18.12.2016
Date of Reporting : 19.12.2016

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
39550	526	40076	50.05	29182	360	29543	50.06	831.93	11.70

* 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	56.29	7.98	0.39	64.65	36.68	36.07	-0.61	100.73	0.00
Haryana	41.96	0.40	0.00	42.36	71.38	70.66	-0.72	113.01	0.00
Rajasthan	116.74	4.88	6.83	128.46	69.72	72.36	2.64	200.82	0.60
Delhi	11.59		0.00	11.59	41.96	43.90	1.93	55.48	0.00
UP	182.82	6.57	0.00	189.40	79.54	77.90	-1.65	267.29	1.79
Uttarakhand		8.29	0.00	14.84	15.94	15.83	-0.11	30.67	0.00
HP		2.38	1.39	3.77	20.53	20.09	-0.44	23.86	0.05
J & K		3.18	0.00	3.18	38.56	33.85	-4.71	37.03	9.26
Chandigarh				0.00	3.22	3.04	-0.19	3.04	0.00
Total	**409.40**	**33.67**	**8.61**	**458.23**	**377.53**	**373.69**	**-3.84**	**831.93**	11.70

* 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	5040	0	59	-698	3041	0	-144	-614	5339	8:00	0
Haryana	5789	0	-159	-395	3493	0	175	-639	5789	19:00	0
Rajasthan	9122	0	269	211	7713	0	173	236	9122	19:00	0
Delhi	2790	0	48	-338	1343	0	-4	-521	3309	11:00	0
UP	12248	110	-199	-233	10227	0	-98	125	12619	7:00	0
Uttarakhand	1574	0	-22	183	1085	0	-28	195	1690	8:00	0
HP	1171	0	-43	387	756	0	-23	572	1375	9:00	0
J&K	1662	416	-325	906	1441	360	-131	852	1700	20:00	425
Chandigarh	154	0	-53	0	84	0	-4	0	177	9:00	0
Total	**39550**	**526**	**-426**	**23**	**29182**	**360**	**-85**	**206**	**39550**	**19:00**	**526**

* 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	1859	2025	1507	42.84	1785	42.47	0.37
	Rihand I STPS (2*500)	1000	618	773	339	13.88	579	13.20	0.68
	Rihand II STPS (2*500)	1000	951	946	769	20.98	874	20.73	0.25
	Rihand III STPS (2*500)	1000	951	949	743	20.78	866	20.70	0.08
	Dadri I STPS (4*210)	840	815	163	157	3.62	151	3.63	-0.01
	Dadri II STPS (2*490)	980	980	688	750	16.94	706	17.48	-0.54
	Unchahar I TPS (2*210)	420	361	270	279	6.47	270	6.68	-0.20
	Unchahar II TPS (2*210)	420	405	279	301	6.82	284	7.31	-0.49
	Unchahar III TPS (1*210)	210	203	137	138	3.37	140	3.70	-0.34
	ISTPP (Jhajjhar) (3*500)	1500	1183	598	318	10.83	451	10.99	-0.16
	Dadri GPS (4*130.19+2*154.51)	830	771	246	234	6.16	257	6.63	-0.47
	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	625	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	0.00	0	0.04	-0.04
	Singrauli Solar(15)	15	2	0	0	0.00	0	0.06	-0.06
	KHEP(4*200)	800	870	868	440	2.74	114	2.61	0.13
	Sub Total (A)	**12112**	**11007**	**7942**	**5975**	**155**	**6476**	**156**	**-0.82**
B. NPC	NAPS (2*220)	440	417	453	463	10.06	419	10.01	0.05
	RAPS- B (2*220)	440	384	431	429	9.27	386	9.22	0.05
	RAPS- C (2*220)	440	218	240	241	5.08	212	5.23	-0.16
	Sub Total (B)	**1320**	**1019**	**1124**	**1133**	**24.41**	**1017**	**24.46**	**-0.05**
C. NHPC	Chamera I HPS (3*180)	540	360	232	0	1.37	57	1.20	0.17
	Chamera II HPS (3*100)	300	201	209	0	1.22	51	1.10	0.12
	Chamera III HPS (3*77)	231	185	105	0	0.58	24	0.56	0.02
	Bairasuil HPS(3*60)	180	179	121	0	0.45	19	0.45	0.00
	Salal-HPS (6*115)	690	90	316	35	2.49	104	2.16	0.33
	Tanakpur-HPS (3*31.4)	94	24	32	32	0.72	30	0.57	0.16
	Uri-I HPS (4*120)	480	73	230	24	1.87	78	1.75	0.12
	Uri-II HPS (4*60)	240	55	121	81	1.35	56	1.32	0.03
	Dhauliganga-HPS (4*70)	280	210	213	0	0.97	40	0.91	0.06
	Dulhasti-HPS (3*130)	390	257	261	0	2.94	122	2.80	0.14
	Sewa-II HPS (3*40)	120	80	52	0	0.17	7	0.25	-0.08
	Parbati 3 (4*130)	520	107	129	0	0.23	10	0.24	-0.01
	Sub Total (C)	**4065**	**1820**	**2021**	**171**	**14**	**598**	**13**	**1.06**
D.SJVNL	NJPC (6*250)	1500	1615	1611	0	6.69	279	6.59	0.10
	Rampur HEP (6*68.67)	412	442	448	0	1.85	77	1.83	0.02
	Sub Total (D)	**1912**	**2057**	**2059**	**0**	**8.54**	**356**	**8.42**	**0.11**
E. THDC	Tehri HPS (4*250)	1000	1060	780	0	6.53	272	6.30	0.22
	Koteshwar HPS (4*100)	400	100	99	91	1.90	79	1.89	0.01
	Sub Total (E)	**1400**	**1160**	**879**	**91**	**8.42**	**351**	**8.19**	**0.23**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	627	1013	386	15.14	631	15.05	0.10
	Dehar HPS (6*165)	990	125	495	0	3.09	129	3.00	0.10
	Pong HPS (6*66)	396	220	396	132	5.21	217	5.28	-0.07
	Sub Total (F)	**2765**	**972**	**1904**	**518**	**23.45**	**977**	**23.32**	**0.12**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	92	0	0.45	19	0.43	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.42	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	0	0	0.00	0	0.00	0.00
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.18	8	0.19	-0.01
	Sub Total (G)	**1662**	**0**	**722**	**0**	**4.05**	**169**	**4.18**	**-0.13**
H. Total Regional Entities (A-G)		**25237**	**18035**	**16651**	**7889**	**238.65**	**9944**	**238.12**	**0.53**

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	370	560	11.93	497
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	570	571	12.90	538
	Goindwal(GVK) (2*270)	540	0	0	0.00	0

	Rajpura (2*700)	1400	610	330	12.23	510
	Talwandi Saboo (3*660)	1980	616	616	19.23	801
	Thermal (Total)	**6560**	**2166**	**2077**	56.29	**2345**
	Total Hydro	1000	378	260	7.98	332
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.33	14
	Solar	560	0	0	0.06	2
	Renewable(Total)	**848**	**0**	**0**	**0.39**	**16**
	Total Punjab	**8408**	**2544**	**2337**	**64.65**	**2694**
Haryana	Panipat TPS (2*210+2*250)	920	414	407	9.92	413
	DCRTPP (Yamuna nagar) (2*300)	600	477	476	11.24	468
	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	935	739	20.79	866
	Thermal (Total)	**4497**	**1826**	**1622**	**41.96**	**1748**
	Total Hydro	62	7	9	0.40	17
	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**	**1833**	**1631**	**42.36**	**1765**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1069	1027	26.02	1084
	suratgarh TPS (6*250)	1500	779	776	17.56	732
	Chabra TPS (4*250)	1000	619	643	16.28	678
	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	169	166	4.22	176
	RAPS A (NPC) (1*100+1*200)	300	169	168	4.19	175
	Barsingsar (NLC) (2*125)	250	112	113	2.61	109
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	827	819	19.38	808
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1100	1000	26.49	1104
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**8876**	**4844**	**4712**	**116.74**	**4864**
	Total Hydro	550	214	174	4.88	203
	Wind power	4017	156	256	3.84	160
	Biomass	99	6	6	0.15	6
	Solar	1295	0	0	2.84	118
	Renewable/Others (Total)	5411	162	262	6.83	285
	Total Rajasthan	**14837**	**5220**	**5148**	**128.46**	**5352**
UP	Anpara TPS (3*210+2*500)	1630	1205	930	27.67	1153
	Obra TPS (2*50+2*94+5*200)	1194	422	419	10.70	446
	Paricha TPS (2*110+2*220+2*250)	1160	587	576	13.90	579
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	406	411	9.80	408
	Tanda TPS (NTPC) (4*110)	440	273	275	6.77	282
	Roza TPS (IPP) (4*300)	1200	756	756	17.93	747
	Anpara-C (IPP) (2*600)	1200	857	612	20.98	874
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	58	58	1.31	55
	Anpara-D(2*500)	1000	837	731	19.94	831
	Lalitpur TPS(3*660)	1980	602	602	14.36	599
	Bara(2*660)	1320	874	721	20.26	844
	Thermal (Total)	**12449**	**6877**	**6091**	**163.62**	**6818**
	Vishnuparyag HPS (IPP)(4*110)	440	93	93	2.16	90
	Alaknanada(4*82.5)	330	76	0	1.24	52
	Other Hydro	527	81	131	3.17	132
	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**	**7927**	**7115**	**189.40**	**7891**
Uttarakhand	Other Hydro	1250	562	257	8.29	345
	Total Gas	225	270	275	6.50	271
	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	832	532	14.84	618
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	80	78	1.95	81
	Pragati Gas Turbine (2x104+ 1x122)	330	148	148	3.62	151
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	249	280	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**477**	**506**	**11.59**	**483**
	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**	**477**	**506**	**11.59**	**483**
HP	Baspa HPS (IPP) (3*100)	300	30	0	1.08	45
	Malana HPS (IPP) (2*43)	86	44	0	0.25	11
	Other Hydro	372	43	8	1.04	43
	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	70	52	1.39	58
	Renewable(Total)	**486**	**70**	**52**	**1.39**	**58**
	Total HP	**1244**	**187**	**60**	**3.77**	**157**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	101	88	2.18	91
	Other Hydro/IPP(including 98 MW Small Hydro)	308	86	20	1.00	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**	**187**	**108**	**3**	**132**

Total State Control Area Generation	**50078**	**19207**	**17437**	**458.23**	**19093**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		**5781.38**	**6239.2**	**170.15**	**7090**
Total Regional Availability(Gross)	**75315**	**41640**	**31565**	**867.03**	**36126**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8453**	**1221**	**61.37**	**2557**
State Control Area Hydro	**7163**	**2055**	**1367**	**35.07**	**1734**
Total Regional Hydro	**19397**	**10508**	**2588**	**96.44**	**4291**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.00**	**0**
State Control Area Renewable	**7356**	**232**	**314**	**8.66**	**361**
Total Regional Renewable	**7386**	**232**	**314**	**8.66**	**361**

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	11.64	-11.64
765 KV Gwalior-Agra (D/C)	1547	1722	2350	0	48.93	0.00	48.93
400 KV Zerda-Kankroli	-35	-161	34	171	0.00	1.65	-1.65
400 KV Zerda-Bhinmal	9	-77	141	83	0.85	0.00	0.85
220 KV Auraiya-Malanpur	-105	-88	0	130	0.00	2.26	-2.26
220 KV Badod-Kota/Morak	-59	-98	16	86	0.00	1.52	-1.52
Mundra-Mohindergarh(HVDC Bipole)	1701	1802	1805	0.00	39.86	0.00	39.86
400 KV RAPPC-Sujalpur	300	157	380	0	7.00	0.00	7.00
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1105	1123	1659	0	32.68	0.00	32.68
Sub Total WR	**3963**	**3880**			**129.31**	**17.07**	**112.24**
400 kV Sasaram - Varanasi	268	242	268	0	6.17	0.00	6.17
400 kV Sasaram - Allahabad	67	99	105	0	2.12	0.00	2.12
400 KV MZP- GKP (D/C)	176	377	537	0	8.87	0.00	8.87
400 KV Patna-Balia(D/C) X 2	631	737	920	0	15.31	0.00	15.31
400 KV B'Sharif-Balia (D/C)	39	169	303	0	4.59	0.00	4.59
765 KV Gaya-Balia	141	246	349	0	6.11	0.00	6.11
765 KV Gaya-Varanasi (D/C)	321	524	797	0	13.83	0.00	13.83
220 KV Pusauli-Sahupuri	165	119	165	0	2.95	0.00	2.95
132 KV K'nasa-Sahupuri	-32	-26	0	32	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-32	-33	0	40	0.00	0.88	-0.88
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	73	-7	78	167	0.00	1.81	-1.81
400 KV Barh -GKP (D/C)	472	508	552	0	10.97	0.00	10.97
400 kV B'Sharif - Varanasi (D/C)	35	-96	206	35	2.33	0.00	2.33
Sub Total ER	**2324**	**2859**			**73.23**	**3.20**	**70.02**
+/- 800 KV BiswanathCharialli-Agra	-506	-500	0	506.00	0.00	12.12	-12.12
Sub Total NER	**-506**	**-500**			**0.00**	**12.12**	**-12.12**
Total IR Exch	**5781**	**6239**			**202.54**	**32.39**	**170.15**

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
41.35	0.76	42.10	1.91	-9.31	1.47	14.51	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
45.48	127.40	172.88	57.90	112.24	170.15	12.42	-15.16	-2.73

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	-33	-26	0	33	0	1	-0.56

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	0.02	7.07	54.89	72.58	13.80	6.31	0.29	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)	
50.25	17.02	49.79	7.19	50.00	0.045	0.067	50.13	49.87	27.42

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	399	15:51	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	2:23	401	18:23	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	1:43	399	12:41	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	426	0:34	404	11:14	0.0	0.0	24.1	0.0	24.1
Ballabhgarh	400	432	2:03	406	11:17	0.0	0.0	40.7	4.2	40.7
Bawana	400	429	2:03	406	11:15	0.0	0.0	34.5	0.0	34.5
Bassi	400	425	20:49	397	10:09	0.0	0.0	8.8	0.0	8.8
Hissar	400	422	20:50	397	11:17	0.0	0.0	1.0	0.0	1.0
Moga	400	423	20:48	400	11:17	0.0	0.0	2.3	0.0	2.3
Abdullapur	400	427	20:49	406	11:19	0.0	0.0	28.4	0.0	28.4
Nalagarh	400	428	20:52	411	10:28	0.0	0.0	41.0	0.0	41.0
Kishenpur	400	423	18:39	396	11:07	0.0	0.0	0.6	0.0	0.6
Wagoora	400	421	18:39	363	11:11	28.8	84.8	0.1	0.0	28.9
Amritsar	400	428	22:03	401	10:11	0.0	0.0	36.5	0.0	36.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	420	20:42	401	11:29	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	420	1:42	397	10:21	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	777	0:31	739	11:25	0.0	1.8	0.0	0.0	0.0
Balia	765	764	0:00	764	0:00	0.0	0.0	0.0	0.0	0.0
Moga	765	806	20:50	762	11:15	0.0	0.0	1.8	0.0	1.8

Agra	765	790	20:50	751	11:37	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	2:02	769	10:08	0.0	0.0	23.5	0.0	23.5
Unnao	765	779	2:01	731	10:50	0.0	27.7	0.0	0.0	0.0
Lucknow	765	791	1:46	756	10:47	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	20:50	760	11:15	0.0	0.0	3.1	0.0	3.1
Jhatikara	765	807	2:02	763	11:19	0.0	0.0	20.7	0.0	20.7
Bareilly 765 kV	765	791	2:02	752	10:48	0.0	0.0	0.0	0.0	0.0
Anta	765	797	4:00	769	10:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	802	3:02	764	10:13	0.0	0.0	5.9	0.0	5.9

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	491.16	768.41	503.50	1245.57	149.80	464.40
Pong	426.72	384.05	409.71	484.26	413.11	600.05	55.44	346.00
Tehri	829.79	740.04	812.80	862.27	807.45	753.52	39.53	149.00
Koteshwar	612.50	598.50	610.92	5.00	610.70	4.95	149.00	125.36
Chamera-I	760.00	748.75	759.80	0.00	0.00	0.00	40.26	36.74
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	506.82	2.13	501.84	4.80	43.29	104.98

*** 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	-617	3	0	-698	0	0	-18.10	0.03	-18.07
Delhi	-181	-340	0	-270	-68	0	-5.52	-1.44	-6.96
Haryana	-940	302	0	-612	217	0	-16.93	6.16	-10.77
HP	502	69	0	410	-23	0	12.83	-1.44	11.38
J&K	617	235	0	611	294	0	14.60	4.29	18.89
CHD	0	0	0	0	0	0	0.00	0.00	0.00
Rajasthan	-7	243	0	-7	218	0	4.37	11.02	15.39
UP	125	0	0	-133	-100	0	-7.54	-0.76	-8.31
Uttarakhand	242	-47	0	242	-59	0	5.97	-0.57	5.40
Total	**-258**	**465**	**0**	**-457**	**480**	**0**	**-10.31**	**17.28**	**6.97**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-596	-983	7	0	0	0
Delhi	-101	-360	295	-340	0	0
Haryana	-539	-947	314	213	0	0
HP	671	386	69	-728	0	0
J&K	617	598	294	-82	0	0
CHD	0	0	0	0	0	0
Rajasthan	448	-7	962	218	0	0
UP	146	-895	0	-100	0	0
Uttarakhand	274	242	129	-222	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	**0.00%**
Simultaneous	**0.00%**

(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	3	20
Haryana	1	15
Rajasthan	3	30
Delhi	4	39
UP	0	12
Uttarakhand	2	23
HP	5	30
J & K	3	27
Chandigarh	2	22

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 18.12.2016 :

Dense Fog in some parts of NR.

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 : 18.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER