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 11.12.2016
Date of Reporting : 12.12.2016

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
39889	1273	41162	50.05	28796	258	29054	50.06	818.23	12.81

* 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	62.01	7.76	0.30	70.07	41.21	41.89	0.68	111.96	0.00
Haryana	39.64	0.36	0.00	40.00	71.94	69.98	-1.96	109.98	0.00
Rajasthan	117.93	4.12	9.27	131.31	67.69	70.15	2.46	201.45	2.64
Delhi	14.07		0.00	14.07	39.39	39.66	0.27	53.73	0.15
UP	156.26	8.01	0.00	164.27	88.11	89.63	1.52	253.90	2.05
Uttarakhand		7.10	0.00	13.73	16.81	16.75	-0.05	30.49	0.00
HP		3.25	1.35	4.59	18.01	17.40	-0.61	21.99	0.00
J & K		3.57	0.00	3.57	35.14	28.16	-6.98	31.73	7.97
Chandigarh				0.00	3.14	3.00	-0.14	3.00	0.00
Total	**389.91**	**34.16**	**10.91**	**441.62**	**381.42**	**376.61**	**-4.82**	**818.23**	12.81

* 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	5660	0	-207	-542	3450	0	235	-459	5753	9:00	0
Haryana	5631	0	-104	-320	3403	0	68	-565	5631	19:00	0
Rajasthan	8846	137	163	223	8017	0	46	271	9129	8:00	58
Delhi	2747	0	48	-312	1358	0	19	-638	3157	11:00	3
UP	12517	705	30	-142	9601	0	136	126	12517	19:00	705
Uttarakhand	1534	0	-86	310	1130	0	63	244	1704	9:00	0
HP	1078	0	-26	249	720	0	-14	406	1214	9:00	0
J&K	1724	431	-213	813	1034	258	-386	739	1724	19:00	431
Chandigarh	154	0	-12	0	84	0	-2	0	171	8:00	0
Total	**39889**	**1273**	**-407**	**278**	**28796**	**258**	**164**	**125**	**39889**	**19:00**	**1273**

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

Diversity is 1.03

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	1847	1958	1438	41.66	1736	40.72	0.94
	Rihand I STPS (2*500)	1000	953	917	725	19.21	800	19.29	-0.08
	Rihand II STPS (2*500)	1000	959	889	713	19.63	818	19.34	0.29
	Rihand III STPS (2*500)	1000	959	866	710	19.34	806	19.10	0.24
	Dadri I STPS (4*210)	840	815	192	155	4.13	172	4.35	-0.21
	Dadri II STPS (2*490)	980	980	703	678	16.54	689	17.04	-0.50
	Unchahar I TPS (2*210)	420	361	335	274	6.86	286	7.24	-0.38
	Unchahar II TPS (2*210)	420	405	333	277	7.05	294	7.69	-0.64
	Unchahar III TPS (1*210)	210	202	162	142	3.55	148	3.90	-0.34
	ISTPP (Jhajjhar) (3*500)	1500	1440	617	601	14.79	616	14.91	-0.12
	Dadri GPS (4*130.19+2*154.51)	830	776	246	265	6.40	267	7.05	-0.64
	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	0.01	1	0.01	0.00
	Unchahar Solar(10)	10	1	0	0	0.03	1	0.02	0.01
	Singrauli Solar(15)	15	2	0	0	0.06	2	0.04	0.02
	KHEP(4*200)	800	870	861	0	2.80	117	2.61	0.19
	Sub Total (A)	**12112**	**11608**	**8079**	**5978**	**162**	**6753**	**163**	**-1.24**
B. NPC	NAPS (2*220)	440	418	443	459	9.95	415	10.03	-0.08
	RAPS- B (2*220)	440	385	425	431	9.19	383	9.24	-0.05
	RAPS- C (2*220)	440	218	236	238	5.00	208	5.23	-0.23
	Sub Total (B)	**1320**	**1021**	**1104**	**1128**	**24.14**	**1006**	**24.50**	**-0.37**
C. NHPC	Chamera I HPS (3*180)	540	360	319	0	1.41	59	1.20	0.21
	Chamera II HPS (3*100)	300	201	209	0	1.15	48	1.05	0.10
	Chamera III HPS (3*77)	231	231	153	0	0.54	23	0.50	0.04
	Bairasuil HPS(3*60)	180	120	122	0	0.51	21	0.46	0.05
	Salal-HPS (6*115)	690	82	230	56	2.46	103	1.96	0.50
	Tanakpur-HPS (3*31.4)	94	28	42	32	0.79	33	0.68	0.11
	Uri-I HPS (4*120)	480	72	230	23	1.90	79	1.73	0.18
	Uri-II HPS (4*60)	240	48	40	42	1.21	50	1.16	0.05
	Dhauliganga-HPS (4*70)	280	210	210	0	1.22	51	1.13	0.09
	Dulhasti-HPS (3*130)	390	257	260	0	3.45	144	3.20	0.25
	Sewa-II HPS (3*40)	120	80	0	0	0.00	0	0.25	-0.25
	Parbati 3 (4*130)	520	200	232	0	0.65	27	0.60	0.05
	Sub Total (C)	**4065**	**1889**	**2046**	**153**	**15**	**637**	**14**	**1.39**
D.SJVNL	NJPC (6*250)	1500	1615	1595	0	6.76	281	6.76	0.00
	Rampur HEP (6*68.67)	412	442	447	0	1.88	78	1.88	0.00
	Sub Total (D)	**1912**	**2057**	**2042**	**0**	**8.63**	**360**	**8.63**	**0.00**
E. THDC	Tehri HPS (4*250)	1000	1065	1065	0	6.89	287	6.70	0.19
	Koteshwar HPS (4*100)	400	100	202	89	2.44	102	2.41	0.03
	Sub Total (E)	**1400**	**1165**	**1267**	**89**	**9.33**	**389**	**9.11**	**0.22**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	634	1013	386	15.30	638	15.21	0.09
	Dehar HPS (6*165)	990	140	330	0	3.41	142	3.35	0.06
	Pong HPS (6*66)	396	223	396	66	5.31	221	5.36	-0.05
	Sub Total (F)	**2765**	**996**	**1739**	**452**	**24.02**	**1001**	**23.92**	**0.10**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.50	21	0.48	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.85	160	3.79	0.05
	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	-1	-0.04	-2	0.00	-0.04
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.17	7	0.15	0.02
	Sub Total (G)	**1662**	**0**	**629**	**-1**	**4.47**	**186**	**4.42**	**0.05**
H. Total Regional Entities (A-G)		**25237**	**18737**	**16907**	**7800**	**247.96**	**10332**	**247.81**	**0.15**

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	370	5.90	246
	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	578	793	15.69	654
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	660	330	12.48	520
	Talwandi Saboo (3*660)	1980	1241	616	27.99	1166
	Thermal (Total)	**6560**	**2639**	**2109**	62.01	**2584**
	Total Hydro	1000	361	177	7.76	323
	Wind Power	0	0	0	0.00	0
	Biomass	288	10591	10591	0.25	11
	Solar	560	0	0	0.05	2

	Renewable(Total)	**848**	**10591**	**10591**	**0.30**	**13**
	Total Punjab	**8408**	**13591**	**12877**	**70.07**	**2920**
Haryana	Panipat TPS (2*210+2*250)	920	199	202	4.93	205
	DCRTPP (Yamuna nagar) (2*300)	600	468	464	11.14	464
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	188	165	4.22	176
	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	807	737	19.36	807
	Thermal (Total)	**4497**	**1662**	**1568**	**39.64**	**1652**
	Total Hydro	62	10	8	0.36	15
	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**	**1672**	**1576**	**40.00**	**1667**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	949	1157	24.31	1013
	suratgarh TPS (6*250)	1500	455	430	10.72	447
	Chabra TPS (4*250)	1000	681	906	19.02	793
	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	182	183	4.31	180
	RAPS A (NPC) (1*100+1*200)	300	168	168	4.31	180
	Barsingsar (NLC) (2*125)	250	98	100	2.34	98
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	820	824	19.15	798
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	916	991	22.97	957
	Kawai(Adani) (2*660)	1320	458	456	10.79	450
	Thermal (Total)	**8876**	**4727**	**5215**	**117.93**	**4914**
	Total Hydro	550	171	193	4.12	171
	Wind power	4017	470	120	6.36	265
	Biomass	99	15	15	0.37	15
	Solar	1295	0	0	2.54	106
	Renewable/Others (Total)	5411	485	135	9.27	386
	Total Rajasthan	**14837**	**5383**	**5543**	**131.31**	**5471**
UP	Anpara TPS (3*210+2*500)	1630	798	780	20.00	833
	Obra TPS (2*50+2*94+5*200)	1194	293	253	6.90	288
	Paricha TPS (2*110+2*220+2*250)	1160	837	580	17.00	708
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	544	406	11.70	488
	Tanda TPS (NTPC) (4*110)	440	292	207	6.16	257
	Roza TPS (IPP) (4*300)	1200	1084	734	23.10	963
	Anpara-C (IPP) (2*600)	1200	630	630	15.80	658
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	81	58	1.70	71
	Anpara-D(2*500)	1000	580	591	14.80	617
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	874	716	19.90	829
	Thermal (Total)	**12449**	**6013**	**4955**	**137.06**	**5711**
	Vishnuparyag HPS (IPP)(4*110)	440	103	98	2.30	96
	Alaknanada(4*82.5)	330	82	0	1.40	58
	Other Hydro	527	191	205	4.31	180
	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**	**7189**	**6058**	**164.27**	**6845**
Uttarakhand	Other Hydro	1250	532	174	7.10	296
	Total Gas	225	279	273	6.59	275
	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	811	447	13.73	572
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	66	79	1.89	79
	Pragati Gas Turbine (2x104+ 1x122)	330	265	263	6.39	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	-0.21	-9
	Thermal (Total)	**2917**	**577**	**619**	**14.07**	**586**
	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**	**577**	**619**	**14.07**	**586**
HP	Baspa HPS (IPP) (3*100)	300	27	0	1.00	42
	Malana HPS (IPP) (2*43)	86	0	0	0.26	11
	Other Hydro	372	85	28	1.99	83
	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	59	54	1.35	56
	Renewable(Total)	**486**	**59**	**54**	**1.35**	**56**
	Total HP	**1244**	**171**	**82**	**4.59**	**191**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	101	110	2.43	101
	Other Hydro/IPP(including 98 MW Small Hydro)	308	85	133	1.14	47
	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**	**186**	**243**	**4**	**149**
Total State Control Area Generation		**50078**	**29581**	**27444**	**441.62**	**18401**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**5645.62**	**6341**	**175.18**	**7299**
Total Regional Availability(Gross)		**75315**	**52134**	**41585**	**864.76**	**36032**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8586**	**694**	**64.43**	**2684**
State Control Area Hydro	**7163**	**2086**	**1453**	**35.51**	**1756**
Total Regional Hydro	**19397**	**10672**	**2147**	**99.93**	**4440**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.10**	**4**
State Control Area Renewable	**7356**	**11135**	**10780**	**10.95**	**456**
Total Regional Renewable	**7386**	**11135**	**10780**	**11.05**	**461**

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	12.05	-12.05
765 KV Gwalior-Agra (D/C)	1883	1915	2378	0	49.80	0.00	49.80
400 KV Zerda-Kankroli	-124	-166	0	212	0.00	3.49	-3.49
400 KV Zerda-Bhinmal	0	-53	37	157	0.00	1.00	-1.00
220 KV Auraiya-Malanpur	-89	-65	0	102	0.00	1.72	-1.72
220 KV Badod-Kota/Morak	-38	-99	0	122	0.00	1.76	-1.76
Mundra-Mohindergarh(HVDC Bipole)	1999	1798	2013	0.00	45.33	0.00	45.33
400 KV RAPPC-Sujalpur	400	270	450	0	8.96	0.00	8.96
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1150	1054	1477	0	30.92	0.00	30.92
Sub Total WR	**4681**	**4154**			**135.01**	**20.02**	**114.99**
400 kV Sasaram - Varanasi	285	241	289	241	9.63	0.00	9.63
400 kV Sasaram - Allahabad	53	90	109	0	1.65	0.00	1.65
400 KV MZP- GKP (D/C)	-5	400	467	5	7.75	0.00	7.75
400 KV Patna-Balia(D/C) X 2	659	723	808	0	17.39	0.00	17.39
400 KV B'Sharif-Balia (D/C)	-1	237	275	-1	4.36	0.00	4.36
765 KV Gaya-Balia	139	288	416	0	6.89	0.00	6.89
765 KV Gaya-Varanasi (D/C)	165	486	842	0	11.46	0.00	11.46
220 KV Pusauli-Sahupuri	-90	0	140	0	0.89	0.00	0.89
132 KV K'nasa-Sahupuri	-30	-24	0	30	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-30	-22	0	30	0.00	0.55	-0.55
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-173	-50	103	199	0.00	0.69	-0.69
400 KV Barh -GKP (D/C)	462	424	544	0	11.00	0.00	11.00
400 kV B'Sharif - Varanasi (D/C)	38	-105	201	54	3.13	0.00	3.13
Sub Total ER	**1472**	**2688**			**74.14**	**1.75**	**72.38**
+/- 800 KV BiswanathCharialli-Agra	-507	-501	0	507.00	0.00	12.19	-12.19
Sub Total NER	**-507**	**-501**			**0.00**	**12.19**	**-12.19**
Total IR Exch	**5646**	**6341**			**209.14**	**33.96**	**175.18**

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
44.75	0.93	45.68	1.70	-8.63	8.00	2.10	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
55.37	103.41	158.78	60.19	114.99	175.18	4.82	11.58	16.40

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	13	13	0	14	0	1	-0.72

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	0.17	8.69	56.87	73.44	13.13	4.63	0.14	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)	
50.21	6.04	49.76	17.14	49.99	0.045	0.067	0.00	0.00	26.56

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	00:00	400	12:24	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	04:00	399	17:41	0.0	0.0	0.1	0.0	0.1
Bareilly(PG)400kV	400	425	04:00	395	16:18	0.0	0.0	15.1	0.0	15.1
Kanpur	400	421	03:01	402	11:07	0.0	0.0	0.5	0.0	0.5
Dadri	400	429	03:56	411	11:09	0.0	0.0	40.9	0.0	40.9
Ballabhgarh	400	434	03:58	413	11:07	0.0	0.0	75.5	11.3	75.5
Bawana	400	432	04:01	411	11:08	0.0	0.0	51.0	0.6	51.0
Bassi	400	426	04:00	397	11:08	0.0	0.0	7.1	0.0	7.1
Hissar	400	421	03:57	400	11:11	0.0	0.0	0.5	0.0	0.5
Moga	400	424	03:59	404	10:10	0.0	0.0	13.5	0.0	13.5
Abdullapur	400	425	03:02	404	11:37	0.0	0.0	13.5	0.0	13.5
Nalagarh	400	427	03:06	412	06:47	0.0	0.0	38.4	0.0	38.4
Kishenpur	400	431	01:39	402	15:51	0.0	0.0	24.6	0.9	24.6
Wagoora	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Amritsar	400	424	01:39	401	12:19	0.0	0.0	18.6	0.0	18.6
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	412	19:17	402	12:22	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	425	03:59	400	10:30	0.0	0.0	14.7	0.0	14.7

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	779	04:00	743	22:17	0.0	0.0	0.0	0.0	0.0
Balia	765	797	03:59	760	12:19	0.0	0.0	0.0	0.0	0.0
Moga	765	800	03:03	764	10:51	0.0	0.0	0.0	0.0	0.0
Agra	765	793	03:59	756	11:07	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	811	03:04	771	11:08	0.0	0.0	23.4	0.0	23.4
Unnao	765	780	00:59	743	11:07	0.0	0.0	0.0	0.0	0.0
Lucknow	765	808	04:00	770	12:19	0.0	0.0	15.4	0.0	15.4
Meerut	765	806	20:44	755	08:37	0.0	0.0	5.3	0.0	5.3
Jhatikara	765	812	04:00	770	11:07	0.0	0.0	17.1	0.0	17.1
Bareilly 765 kV	765	802	03:59	765	10:31	0.0	0.0	0.4	0.0	0.4
Anta	765	799	04:00	755	08:41	0.0	0.0	0.0	0.0	0.0
Phagi	765	807	04:00	752	08:43	0.0	0.0	7.9	0.0	7.9

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	429.73	827.99	504.79	1298.95	181.54	467.88
Pong	426.72	384.05	410.49	514.41	414.11	644.91	60.00	350.56
Tehri	829.79	740.04	814.65	895.26	809.40	790.57	39.87	157.00
Koteshwar	612.50	598.50	610.01	4.56	610.94	5.04	157.00	160.97
Chamera-I	760.00	748.75	759.49	0.00	0.00	0.00	40.67	38.03

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	507.72	2.18	503.66	4.59	37.80	91.51

*** 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	-461	2	0	-542	0	0	-13.96	0.36	-13.60
Delhi	-281	-356	0	-370	58	0	-8.82	-0.42	-9.24
Haryana	-852	288	0	-528	208	0	-14.77	5.65	-9.12
HP	335	71	0	267	-18	0	9.41	-1.30	8.10
J&K	621	118	0	615	197	0	14.69	2.85	17.54
CHD	0	0	0	0	0	0	0.00	-0.10	-0.10
Rajasthan	-7	278	0	-7	230	0	4.40	7.32	11.73
UP	126	0	0	-142	0	0	-7.35	-0.36	-7.71
Uttarakhand	327	-82	0	327	-17	0	7.15	-1.57	5.58
Total	**-193**	**318**	**0**	**-380**	**659**	**0**	**-9.25**	**12.43**	**3.18**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-441	-752	115	0	0	0
Delhi	-281	-459	412	-361	0	0
Haryana	-439	-866	289	-125	0	0
HP	549	242	71	-580	0	0
J&K	621	602	296	-203	0	0
CHD	0	0	0	-71	0	0
Rajasthan	450	-7	899	181	0	0
UP	140	-837	0	-100	0	0
Uttarakhand	358	24	101	-336	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	**11.81%**

(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	5	39
Haryana	2	23
Rajasthan	3	16
Delhi	3	17
UP	0	11
Uttarakhand	5	51
HP	3	31
J & K	2	32
Chandigarh	5	40

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 11.12.2016 :
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 :
400kV Jallandhar – Samba Ckt1 charged at 16:45 hrs and ckt 2 at 17:38 hrs for the first time.
400kV Unchahar 401 bay and Station Transformer charged on no load from 400kV Side only for the first time at 18:45 hrs.

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 : 11.12.2016 **भारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**