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 21.09.2016
Date of Reporting : 22.09.2016

I. Regional Availability/Demand:

Evening Peak (20:00 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
51107	739	51846	50.14	49327	2281	51608	50.02	1153.6	11.36

* 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	88.58	17.37		106.74	107.03	106.26	-0.77	213.00	0.00
Haryana	47.87	0.92		48.78	136.34	133.64	-2.71	182.42	0.00
Rajasthan	125.29	1.25	20.75	147.29	70.88	71.96	1.08	219.24	2.97
Delhi	24.73			24.73	84.57	85.94	1.38	110.67	-0.02
UP	159.79	24.68		184.47	138.88	139.09	0.21	323.56	0.00
Uttarakhand		18.27		23.40	15.99	16.01	0.02	39.41	0.00
HP		20.09		20.09	6.52	5.71	-0.81	25.80	0.00
J & K		19.92	0.00	19.92	17.04	13.75	-3.29	33.67	8.42
Chandigarh				0.00	6.08	5.87	-0.21	5.87	0.00
Total	**446.25**	**102.50**	**20.75**	**575.42**	**583.32**	**578.23**	**-5.10**	**1153.64**	11.36

* 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 (20:00 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	9175	0	-5	689	8341	0	-11	810	9328	16:00	0
Haryana	8834	0	-306	1956	7895	0	-10	1657	8868	21:00	0
Rajasthan	9265	0	134	338	9684	0	-16	345	10042	1:00	0
Delhi	4854	0	56	440	4531	0	145	255	5400	18:00	2
UP	14021	305	170	1323	15168	2015	324	1873	15195	2:00	1455
Uttarakhand	1757	0	-75	-48	1508	0	-15	35	1931	19:00	0
HP	1184	0	1	-1262	926	0	-68	-935	1287	8:00	0
J&K	1738	434	17	-587	1064	266	-226	-642	1759	22:00	440
Chandigarh	280	0	-5	-25	210	0	-22	0	285	12:00	0
Total	**51107**	**739**	**-13**	**2824**	**49327**	**2281**	**101**	**3398**	**51107**	**20:00**	**739**

* 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	1807	1961	1971	43.62	1817	43.26	0.36
	Rihand I STPS (2*500)	1000	806	1013	498	18.58	774	18.85	-0.27
	Rihand II STPS (2*500)	1000	953	967	961	22.02	918	22.39	-0.37
	Rihand III STPS (2*500)	1000	953	973	996	22.10	921	22.39	-0.29
	Dadri I STPS (4*210)	840	815	572	568	12.66	527	13.66	-1.00
	Dadri II STPS (2*490)	980	970	943	739	19.76	823	21.55	-1.80
	Unchahar I TPS (2*210)	420	145	161	164	3.40	142	3.38	0.02
	Unchahar II TPS (2*210)	420	395	398	390	8.43	351	9.01	-0.58
	Unchahar III TPS (1*210)	210	200	213	215	4.23	176	4.56	-0.33
	ISTPP (Jhajjhar) (3*500)	1500	1425	517	313	7.61	317	7.26	0.35
	Dadri GPS (4*130.19+2*154.51)	830	756	322	278	7.24	302	8.62	-1.38
	Anta GPS (3*88.71+1*153.2)	419	393	345	297	7.91	329	8.19	-0.28
	Auraiya GPS (4*111.19+2*109.30)	663	623	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	0.05	-0.01
	Singrauli Solar(15)	15	2	0	0	0.02	1	0.04	-0.02
	KHEP(4*200)	800	858	856	218	10.43	435	10.00	0.43
	Sub Total (A)	**12112**	**11102**	**9241**	**7608**	**188**	**7835**	**193**	**-5.18**
B. NPC	NAPS (2*220)	440	165	210	210	4.48	187	3.96	0.52
	RAPS- B (2*220)	440	371	371	371	8.90	371	8.90	0.00
	RAPS- C (2*220)	440	200	218	219	4.57	190	4.80	-0.23
	Sub Total (B)	**1320**	**736**	**799**	**800**	**17.95**	**748**	**17.66**	**0.29**
C. NHPC	Chamera I HPS (3*180)	540	540	550	235	4.63	193	4.50	0.13
	Chamera II HPS (3*100)	300	301	309	301	4.55	190	4.50	0.05
	Chamera III HPS (3*77)	231	221	227	155	3.03	126	2.93	0.11
	Bairasuil HPS(3*60)	180	176	182	0	1.61	67	1.58	0.04
	Salal-HPS (6*115)	690	599	678	485	15.15	631	14.37	0.78
	Tanakpur-HPS (3*31.4)	94	86	88	93	2.25	94	2.07	0.18
	Uri-I HPS (4*120)	480	231	241	256	5.97	249	5.55	0.42
	Uri-II HPS (4*60)	240	137	183	125	3.39	141	3.29	0.10
	Dhauliganga-HPS (4*70)	280	39	0	140	0.10	4	0.95	-0.85
	Dulhasti-HPS (3*130)	390	383	398	390	9.24	385	9.18	0.06
	Sewa-II HPS (3*40)	120	119	84	0	0.62	26	0.60	0.02
	Parbati 3 (4*130)	520	520	403	0	1.97	82	1.96	0.01
	Sub Total (C)	**4065**	**3353**	**3344**	**2179**	**53**	**2188**	**51**	**1.03**
D.SJVNL	NJPC (6*250)	1500	1605	1590	1256	31.17	1299	31.11	0.06
	Rampur HEP (6*68.67)	412	442	445	357	8.94	373	8.65	0.29
	Sub Total (D)	**1912**	**2047**	**2035**	**1613**	**40.12**	**1671**	**39.76**	**0.36**
E. THDC	Tehri HPS (4*250)	1000	1071	1045	808	11.83	493	11.50	0.33
	Koteshwar HPS (4*100)	400	157	401	91	3.79	158	3.80	-0.01
	Sub Total (E)	**1400**	**1228**	**1446**	**899**	**15.62**	**651**	**15.30**	**0.32**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	868	1329	667	20.95	873	20.82	0.13
	Dehar HPS (6*165)	990	575	825	570	14.02	584	13.81	0.21
	Pong HPS (6*66)	396	284	330	198	6.81	284	6.81	0.00
	Sub Total (F)	**2765**	**1727**	**2484**	**1435**	**41.78**	**1741**	**41.44**	**0.34**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	65	105	2.05	85	1.88	0.17
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	850	18.34	764	18.26	0.08
	Malana Stg-II HPS (2*50)	100	0	95	70	1.78	74	1.67	0.11
	Shree Cement TPS (2*150)	300	0	290	290	6.56	273	6.65	-0.09
	Budhil HPS(IPP) (2*35)	70	0	38	48	0.98	41	1.07	-0.09
	Sub Total (G)	**1662**	**0**	**1589**	**1362**	**29.71**	**1238**	**29.53**	**0.18**
H. Total Regional Entities (A-G)		**25237**	**20193**	**20938**	**15896**	**385.73**	**16072**	**388.40**	**-2.67**

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	880	850	19.59	816
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	225	180	4.17	174
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	598	597	13.46	561
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1320	1320	31.08	1295
	Talwandi Saboo (3*660)	1980	827	616	20.30	846
	Thermal (Total)	**6560**	**3850**	**3563**	88.58	**3691**
	Total Hydro	1000	694	704	17.37	724
	Wind Power	0	0	0	0.00	0
	Biomass	73	21	21	0.49	21
	Solar	494	13	13	0.30	13
	Renewable(Total)	**567**	**33**	**33**	**0.79**	**33**
	Total Punjab	**8127**	**4577**	**4300**	**106.74**	**4448**
Haryana	Panipat TPS (2*210+2*250)	920	375	375	9.01	375
	DCRTPP (Yamuna nagar) (2*300)	600	550	467	11.69	487
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	345	308	7.30	304
	RGTPP (khedar) (IPP) (2*600)	1200	1009	815	19.87	828
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4497**	**2279**	**1965**	**47.87**	**1994**
	Total Hydro	62	0	41	0.92	38
	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**	**2279**	**2006**	**48.78**	**2033**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	921	842	21.68	903
	suratgarh TPS (6*250)	1500	1102	958	24.08	1003
	Chabra TPS (4*250)	1000	765	746	19.37	807
	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	105	108	2.65	110
	RAPS A (NPC) (1*100+1*200)	300	165	167	4.13	172
	Barsingsar (NLC) (2*125)	250	226	227	5.34	222
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	687	635	15.71	655
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	551	406	12.42	518
	Kawai(Adani) (2*660)	1320	628	1226	19.91	830
	Thermal (Total)	**8876**	**5150**	**5315**	**125.29**	**5220**
	Total Hydro	550	28	0	1.25	52
	Wind power	4017	391	1365	19.82	826
	Biomass	99	24	24	0.58	24
	Solar	1295	1	0	0.35	14
	Renewable/Others (Total)	5411	416	1389	20.75	864
	Total Rajasthan	**14837**	**5594**	**6704**	**147.29**	**6137**
UP	Anpara TPS (3*210+2*500)	1630	924	844	20.99	875
	Obra TPS (2*50+2*94+5*200)	1194	335	332	7.92	330
	Paricha TPS (2*110+2*220+2*250)	1160	784	926	20.70	863
	Panki TPS (2*105)	210	149	144	3.51	146
	Harduaganj TPS (1*60+1*105+2*250)	665	437	430	10.47	436
	Tanda TPS (NTPC) (4*110)	440	374	350	8.22	343
	Roza TPS (IPP) (4*300)	1200	1089	1103	26.26	1094
	Anpara-C (IPP) (2*600)	1200	810	828	19.06	794
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	365	404	8.96	373
	Anpara-D(2*500)	1000	438	299	8.57	357
	Lalitpur TPS(3*660)	1980	429	469	10.87	453
	Bara(2*660)	1320	533	550	13.07	545
	Thermal (Total)	**12449**	**6667**	**6679**	**158.59**	**6608**
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.47	436
	Alaknanada(4*82.5)	330	254	254	6.72	280
	Other Hydro	527	308	337	7.49	312
	Cogeneration	981	50	50	1.20	50
	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**	**7714**	**7755**	**184.47**	**7686**
Uttarakhand	Other Hydro	1250	837	631	18.27	761
	Total Gas	225	228	226	5	214
	Wind Power	0	0	0	0.00	0
	Biomass	100	0	0	0.00	0
	Solar	20	0	0	0.00	0
	Small Hydro (< 25 MW)	150	0	0	0.00	0
	Renewable(Total)	270	0	0	0.00	0
	Total Uttarakhand	1745	1065	857	23.40	975
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	72	73	1.81	75
	Pragati Gas Turbine (2x104+ 1x122)	330	149	148	3.62	151
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	506	505	12.21	509
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.11	296
	Thermal (Total)	**2917**	**1057**	**1056**	**24.73**	**1030**
	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**	**1057**	**1056**	**24.73**	**1030**

HP	Baspa HPS (IPP) (3*100)	300	333	333	7.31	304
	Malana HPS (IPP) (2*43)	86	56	81	1.61	67
	Other Hydro	878	245	234	5.46	227
	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)		242	229	5.72	238
	Renewable(Total)	**0**	**242**	**229**	**5.72**	**238**
	Total HP	**1264**	**876**	**877**	**20.09**	**837**
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.15	715
	Other Hydro/IPP	560	137	93	2.77	115
	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)		0	0	0.00	0
	Renewable(Total)	**0**	**0**	**0**	**0.00**	**0**
	Total J & K	**1500**	**870**	**826**	**19.92**	**830**
Total State Control Area Generation		**49862**	**24032**	**24381**	**575.42**	**23976**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**7217.34**	**7560.4**	**205.00**	**8542**
Total Regional Availability(Gross)		**75099**	**52187**	**47837**	**1166.15**	**48589**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**11425**	**7369**	**182.63**	**7610**
State Control Area Hydro	**7228**	**4530**	**4331**	**102.50**	**4485**
Total Regional Hydro	**19462**	**15955**	**11700**	**285.13**	**12094**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.08**	**3**
State Control Area Renewable	**6434**	**691**	**1651**	**27.26**	**1136**
Total Regional Renewable	**6464**	**691**	**1651**	**27.34**	**1139**

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-200	-200	0	200	0.00	4.81	-4.81
765 KV Gwalior-Agra (D/C)	2674	2879	2887	0	64.52	0.00	64.52
400 KV Zerda-Kankroli	53	31	115	59	0.31	0.00	0.31
400 KV Zerda-Bhinmal	102	53	175	44	1.60	0.00	1.60
220 KV Auraiya-Malanpur	6	5	0	4	0.00	0.43	-0.43
220 KV Badod-Kota/Morak	68	78	79	17	1.42	0.00	1.42
Mundra-Mohindergarh(HVDC Bipole)	2498	2202	2505	0.00	51.57	0.00	51.57
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1226	944	1269	0	25.98	0.00	25.98
Sub Total WR	**6427**	**5992**			**145.38**	**5.24**	**140.15**
Pusauli Bypass/HVDC	-400	-400	400	0	9.07	0.00	9.07
400 KV MZP- GKP (D/C)	157	414	786	0	10.98	0.00	10.98
400 KV Patna-Balia(D/C) X 2	404	583	606	0	12.33	0.00	12.33
400 KV B'Sharif-Balia (D/C)	24	136	262	0	2.24	0.00	2.24
765 KV Gaya-Balia	240	368	368	0	3.40	0.00	3.40
765 KV Gaya-Varanasi (D/C)	-414	-604	605	0	12.03	0.00	12.03
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-30	-32	0	40	0.00	6.19	-6.19
132 KV Son Ngr-Rihand	-30	-28	0	38	0.00	0.65	-0.65
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-303	-253	0	330	0.00	4.49	-4.49
400 KV Barh -GKP (D/C)	350	424	424	0	7.78	0.00	7.78
400 kV B'Sharif - Varanasi (D/C)	92	-40	139	107	0.47	0.00	0.47
Sub Total ER	**90**	**568**			**58.29**	**11.32**	**46.97**
+/- 800 KV BiswanathCharialli-Agra	700	1000	1000	0.00	17.88	0.00	17.88
Sub Total NER	**700**	**1000**			**17.88**	**0.00**	**17.88**
Total IR Exch	**7217**	**7560**			**221.56**	**16.56**	**205.00**

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
43.20	3.66	46.87	25.62	18.25	13.15	1.44	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
85.63	134.14	219.77	64.85	140.15	205.00	-20.78	6.01	-14.77

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	20	0	0	26	0	0	-0.37

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	1.91	44.82	77.23	15.75	5.16	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)	
50.20	22.50	49.85	9.41	50.01	0.030	0.054	50.22	50.03	22.77

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	0:00	402	10:20	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	6:33	399	14:39	0.0	0.0	8.1	0.0	8.1
Bareilly(PG)400kV	400	415	6:59	378	13:08	0.0	0.0	0.0	0.0	0.0
Kanpur	400	413	6:33	394	12:39	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	6:07	391	11:14	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	417	6:05	393	12:42	0.0	0.0	0.0	0.0	0.0
Bawana	400	416	6:02	395	12:38	0.0	0.0	0.0	0.0	0.0
Bassi	400	417	4:03	391	11:14	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	6:02	390	11:14	0.0	0.0	0.0	0.0	0.0
Moga	400	414	6:03	397	11:14	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	420	6:03	401	12:41	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	421	6:08	400	11:22	0.0	0.0	0.6	0.0	0.6
Kishenpur	400	412	4:00	399	11:51	0.0	0.0	0.0	0.0	0.0
Wagoora	400	411	4:03	377	19:05	4.8	31.2	0.0	0.0	4.8
Amritsar	400	419	6:02	398	11:15	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	416	6:04	395	12:23	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	0	0:00	0	0:00	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	6:32	739	19:10	0.0	1.6	0.0	0.0	0.0
Balia	765	788	6:34	752	19:10	0.0	0.0	0.0	0.0	0.0
Moga	765	795	6:02	761	11:14	0.0	0.0	0.0	0.0	0.0
Agra	765	785	6:02	746	11:16	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	791	6:34	755	11:14	0.0	0.0	0.0	0.0	0.0
Unnao	765	763	6:04	730	12:42	0.0	18.8	0.0	0.0	0.0
Lucknow	765	788	6:32	751	12:41	0.0	0.0	0.0	0.0	0.0
Meerut	765	798	6:07	756	12:41	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	790	6:04	750	11:17	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	789	6:59	750	12:39	0.0	0.0	0.0	0.0	0.0
Anta	765	783	3:59	756	11:16	0.0	0.0	0.0	0.0	0.0
Phagi	765	786	4:00	754	11:11	0.0	0.0	0.0	0.0	0.0

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	503.01	1219.07	511.21	1605.30	635.51	645.65
Pong	426.72	384.05	417.30	768.49	420.85	931.43	206.66	407.54
Tehri	829.79	740.04	824.70	1101.00	822.65	1055.00	181.26	255.00
Koteshwar	612.50	598.50	610.48	4.82	609.92	4.44	255.00	249.86
Chamera-I	760.00	748.75	753.90	0.00	0.00	0.00	147.61	125.62
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	519.62	6.31	510.82	6.30	136.04	262.84

*** NA: Not Available**

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	810	0	0	590	99	0	20.60	1.36	21.96
Delhi	618	-363	0	424	16	0	15.36	-3.25	12.11
Haryana	1646	11	0	1625	331	0	39.61	3.51	43.12
HP	-691	-245	0	-386	-876	0	-11.70	-8.06	-19.76
J&K	-577	-65	0	-572	-15	0	-14.48	1.56	-12.92
CHD	0	0	0	0	-25	0	0.35	0.15	0.51
Rajasthan	-141	486	0	-141	479	0	-3.38	12.54	9.17
UP	700	1173	0	370	953	0	10.05	10.12	20.17
Uttarakhand	-190	226	0	-190	143	0	-4.57	6.18	1.62
Total	**2176**	**1222**	**0**	**1720**	**1104**	**0**	**51.85**	**24.11**	**75.97**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1061	578	346	0	0	0
Delhi	723	405	160	-590	0	0
Haryana	1885	1280	354	-494	0	0
HP	-386	-691	-88	-876	0	0
J&K	-572	-673	233	-65	0	0
CHD	44	0	49	-25	0	0
Rajasthan	-141	-141	962	450	0	0
UP	725	269	1222	-51	0	0
Uttarakhand	-190	-190	424	64	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	**0.35%**
ER	**0.00%**
Simultaneous	**0.00%**

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

WR	**24.31%**
ER	**0.00%**
Simultaneous	**12.15%**

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

Rihand - Dadri	**0.00%**

XII Number of times of Non Compliance of Sign Change in UI in consecutive 12 blocks in the day(1 block = 15 min)

Punjab	5
Haryana	23
Rajasthan	11
Delhi	25
UP	9
Uttarakhand	17
HP	29
J & K	7
Chandigarh	32

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 21.09.2016 :

XVI. Synchronisation of new generating units :

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

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 : 21.09.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER