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 20.09.2016
Date of Reporting : 21.09.2016

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
50657	1710	52367	50.14	47427	2135	49563	50.02	1145.0	36.22

* 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	94.37	17.59		112.16	102.05	102.03	-0.02	214.19	0.00
Haryana	47.41	0.99		48.40	136.93	133.08	-3.84	181.48	0.00
Rajasthan	128.34	1.37	16.53	146.24	77.84	75.45	-2.39	221.68	0.00
Delhi	24.74			24.74	83.67	83.36	-0.31	108.09	0.05
UP	148.05	24.98		173.03	133.63	137.05	3.42	310.08	27.01
Uttarakhand		15.63		20.93	16.69	19.75	3.06	40.68	0.15
HP		20.03		20.03	6.43	6.71	0.29	26.75	0.00
J & K		21.97	0.00	21.97	16.08	14.11	-1.97	36.08	9.02
Chandigarh				0.00	6.00	5.93	-0.07	5.93	0.00
Total	**442.91**	**102.56**	**16.53**	**567.50**	**579.31**	**577.47**	**-1.84**	**1144.97**	36.22

* 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	9559	0	24	721	8067	0	58	800	9559	20:00	0
Haryana	8936	0	19	2004	7839	0	-55	2109	8936	20:00	0
Rajasthan	9408	0	-440	694	9712	0	-41	803	10109	24:00	0
Delhi	4783	0	34	638	4467	0	73	608	5244	24:00	0
UP	12868	1270	-121	761	13542	1845	460	857	14050	23:00	680
Uttarakhand	1897	0	139	-135	1502	0	33	22	1915	19:00	0
HP	1175	0	36	-1193	925	0	1	-908	1297	8:00	0
J&K	1761	440	-70	-589	1161	290	-246	-644	1761	20:00	440
Chandigarh	271	0	-20	-25	211	0	6	0	297	15:00	0
Total	**50657**	**1710**	**-399**	**2876**	**47427**	**2135**	**290**	**3646**	**50657**	**20:00**	**1710**

* 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	1800	1983	1972	43.51	1813	43.01	0.50
	Rihand I STPS (2*500)	1000	858	491	1029	20.30	846	20.52	-0.22
	Rihand II STPS (2*500)	1000	953	998	1010	22.75	948	22.45	0.31
	Rihand III STPS (2*500)	1000	953	858	1012	22.64	943	22.70	-0.06
	Dadri I STPS (4*210)	840	815	582	532	13.08	545	13.82	-0.74
	Dadri II STPS (2*490)	980	970	950	830	20.08	837	21.32	-1.24
	Unchahar I TPS (2*210)	420	143	161	156	3.51	146	3.38	0.13
	Unchahar II TPS (2*210)	420	400	377	395	8.65	360	9.23	-0.58
	Unchahar III TPS (1*210)	210	200	198	208	4.50	188	4.61	-0.10
	ISTPP (Jhajjhar) (3*500)	1500	1425	502	510	8.97	374	9.17	-0.20
	Dadri GPS (4*130.19+2*154.51)	830	771	253	306	7.63	318	8.87	-1.25
	Anta GPS (3*88.71+1*153.2)	419	393	304	281	7.46	311	7.45	0.02
	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	0.03	1	0.04	-0.01
	Singrauli Solar(15)	15	2	0	0	0.05	2	0.05	0.00
	KHEP(4*200)	800	855	857	217	10.31	430	10.00	0.31
	Sub Total (A)	**12112**	**11163**	**8514**	**8458**	**193**	**8062**	**197**	**-3.15**
B. NPC	NAPS (2*220)	440	170	198	214	4.41	184	4.08	0.33
	RAPS- B (2*220)	440	373	413	414	8.86	369	8.95	-0.09
	RAPS- C (2*220)	440	200	217	219	4.59	191	4.80	-0.21
	Sub Total (B)	**1320**	**743**	**828**	**847**	**17.87**	**744**	**17.83**	**0.04**
C. NHPC	Chamera I HPS (3*180)	540	540	545	0	4.67	195	4.52	0.15
	Chamera II HPS (3*100)	300	301	308	0	4.80	200	4.68	0.12
	Chamera III HPS (3*77)	231	221	230	0	3.18	132	3.06	0.12
	Bairasuil HPS(3*60)	180	179	184	0	1.62	67	1.55	0.07
	Salal-HPS (6*115)	690	541	676	390	13.95	581	12.99	0.96
	Tanakpur-HPS (3*31.4)	94	31	45	85	0.86	36	0.74	0.12
	Uri-I HPS (4*120)	480	223	233	225	5.92	247	5.36	0.57
	Uri-II HPS (4*60)	240	133	181	133	3.38	141	3.20	0.18
	Dhauliganga-HPS (4*70)	280	280	278	78	3.99	166	3.90	0.09
	Dulhasti-HPS (3*130)	390	383	395	390	9.24	385	9.18	0.05
	Sewa-II HPS (3*40)	120	119	41	0	0.73	30	0.70	0.03
	Parbati 3 (4*130)	520	508	395	0	2.37	99	2.34	0.03
	Sub Total (C)	**4065**	**3459**	**3512**	**1301**	**55**	**2279**	**52**	**2.48**
D.SJVNL	NJPC (6*250)	1500	1605	1586	1285	31.09	1296	30.88	0.22
	Rampur HEP (6*68.67)	412	350	0	299	6.37	266	6.20	0.18
	Sub Total (D)	**1912**	**1955**	**1586**	**1584**	**37.47**	**1561**	**37.07**	**0.39**
E. THDC	Tehri HPS (4*250)	1000	1071	1055	529	11.47	478	11.11	0.36
	Koteshwar HPS (4*100)	400	133	394	92	3.23	135	3.20	0.03
	Sub Total (E)	**1400**	**1205**	**1449**	**621**	**14.70**	**613**	**14.31**	**0.39**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	874	1316	661	21.20	883	20.97	0.23
	Dehar HPS (6*165)	990	573	825	570	13.94	581	13.76	0.18
	Pong HPS (6*66)	396	295	396	198	7.11	296	7.09	0.02
	Sub Total (F)	**2765**	**1742**	**2537**	**1429**	**42.25**	**1760**	**41.81**	**0.44**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	150	114	2.07	86	1.88	0.20
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1000	800	17.63	735	17.28	0.35
	Malana Stg-II HPS (2*50)	100	0	100	70	1.82	76	1.67	0.15
	Shree Cement TPS (2*150)	300	0	290	296	6.78	282	6.74	0.04
	Budhil HPS(IPP) (2*35)	70	0	48	35	1.02	42	1.07	-0.05
	Sub Total (G)	**1662**	**0**	**1588**	**1316**	**29.31**	**1221**	**28.63**	**0.68**
H. Total Regional Entities (A-G)		**25237**	**20267**	**20015**	**15556**	**389.78**	**16241**	**388.50**	**1.28**

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	1050	850	20.99	874
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	225	180	4.39	183
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	720	591	14.53	606
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1320	1320	31.51	1313
	Talwandi Saboo (3*660)	1980	1080	616	22.98	957
	Thermal (Total)	**6560**	**4395**	**3557**	94.37	**3932**
	Total Hydro	1000	707	693	17.59	733
	Wind Power	0	0	0	0.00	0
	Biomass	73	6	6	0.14	6
	Solar	494	3	3	0.07	3
	Renewable(Total)	**567**	**8**	**8**	**0.20**	**9**
	Total Punjab	**8127**	**5110**	**4258**	**112.16**	**4673**
Haryana	Panipat TPS (2*210+2*250)	920	383	199	7.12	296
	DCRTPP (Yamuna nagar) (2*300)	600	520	465	11.69	487
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	309	311	7.40	308
	RGTPP (khedar) (IPP) (2*600)	1200	818	834	21.20	883
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4497**	**2030**	**1809**	**47.41**	**1975**
	Total Hydro	62	42	41	0.99	41
	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**	**2072**	**1850**	**48.40**	**2017**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	854	857	20.72	863
	suratgarh TPS (6*250)	1500	954	961	22.85	952
	Chabra TPS (4*250)	1000	753	809	18.70	779
	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	2.70	112
	RAPS A (NPC) (1*100+1*200)	300	167	167	4.15	173
	Barsingsar (NLC) (2*125)	250	225	227	6.03	251
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	493	699	14.00	583
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	405	565	11.79	491
	Kawai(Adani) (2*660)	1320	1116	1225	27.40	1142
	Thermal (Total)	**8876**	**5072**	**5618**	**128.34**	**5348**
	Total Hydro	550	44	31	1.37	57
	Wind power	4017	764	723	15.43	643
	Biomass	99	23	23	0.56	23
	Solar	1295	2	0	0.54	23
	Renewable/Others (Total)	5411	789	746	16.53	689
	Total Rajasthan	**14837**	**5905**	**6395**	**146.24**	**6093**
UP	Anpara TPS (3*210+2*500)	1630	788	816	18.61	775
	Obra TPS (2*50+2*94+5*200)	1194	313	309	7.25	302
	Paricha TPS (2*110+2*220+2*250)	1160	662	888	19.63	818
	Panki TPS (2*105)	210	144	434	3.16	132
	Harduaganj TPS (1*60+1*105+2*250)	665	436	434	10.52	438
	Tanda TPS (NTPC) (4*110)	440	365	357	8.50	354
	Roza TPS (IPP) (4*300)	1200	1094	1103	26.33	1097
	Anpara-C (IPP) (2*600)	1200	630	639	15.24	635
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	365	365	8.42	351
	Anpara-D(2*500)	1000	0	250	5.56	232
	Lalitpur TPS(3*660)	1980	425	473	10.40	434
	Bara(2*660)	1320	551	548	13.24	552
	Thermal (Total)	**12449**	**5773**	**6616**	**146.85**	**6119**
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.47	436
	Alaknanada(4*82.5)	330	281	263	6.79	283
	Other Hydro	527	353	344	7.73	322
	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**	**6892**	**7708**	**173.03**	**7210**
Uttarakhand	Other Hydro	1250	718	633	15.63	651
	Total Gas	225	222	225	5	221
	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	940	858	20.93	872
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	70	77	1.81	75
	Pragati Gas Turbine (2x104+ 1x122)	330	145	140	3.60	150
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	505	250	11.97	499
	Badarpur TPS (NTPC) (3*95+2*210)	705	30	330	7.37	307
	Thermal (Total)	**2917**	**750**	**797**	**24.74**	**1031**
	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**	**750**	**797**	**24.74**	**1031**
HP	Baspa HPS (IPP) (3*100)	300	333	303	7.22	301
	Malana HPS (IPP) (2*43)	86	90	72	1.58	66
	Other Hydro	878	286	239	5.48	229
	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	236	5.75	240
	Renewable(Total)	**0**	**242**	**236**	**5.75**	**240**
	Total HP	**1264**	**952**	**850**	**20.03**	**835**

J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	181	185	4.38	182
	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**	**914**	**918**	**21.97**	**915**
Total State Control Area Generation		**49862**	**23535**	**23635**	**567.50**	**23646**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**8755**	**9409**	**207.65**	**8652**
Total Regional Availability(Gross)		**75099**	**52305**	**48600**	**1164.93**	**48539**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**11191**	**6136**	**180.95**	**7540**
State Control Area Hydro	**7228**	**4668**	**4433**	**102.56**	**4494**
Total Regional Hydro	**19462**	**15859**	**10570**	**283.51**	**12034**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.10**	**4**
State Control Area Renewable	**6434**	**1040**	**990**	**22.48**	**937**
Total Regional Renewable	**6464**	**1040**	**990**	**22.58**	**941**

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)	-400	-350	50	500	0.01	7.16	-7.15
765 KV Gwalior-Agra (D/C)	2939	2821	3054	0	61.30	0.00	61.30
400 KV Zerda-Kankroli	50	95	95	94	0.14	0.00	0.14
400 KV Zerda-Bhinmal	49	147	189	68	1.73	0.00	1.73
220 KV Auraiya-Malanpur	-15	-2	0	6	0.00	0.46	-0.46
220 KV Badod-Kota/Morak	82	109	73	5	1.68	0.00	1.68
Mundra-Mohindergarh(HVDC Bipole)	2198	2498	2506	0.00	56.93	0.00	56.93
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1146	1045	590	0	23.58	0.00	23.58
Sub Total WR	**6049**	**6363**			**145.37**	**7.62**	**137.75**
Pusauli Bypass/HVDC	400	400	400	0	9.17	0.00	9.17
400 KV MZP- GKP (D/C)	76	270	580	0	7.94	0.00	7.94
400 KV Patna-Balia(D/C) X 2	472	504	615	0	12.43	0.00	12.43
400 KV B'Sharif-Balia (D/C)	3	31	106	0	3.41	0.00	3.41
765 KV Gaya-Balia	282	303	359	0	3.26	0.00	3.26
765 KV Gaya-Varanasi (D/C)	419	480	552	0	9.70	0.00	9.70
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-32	-30	0	36	0.00	0.67	-0.67
132 KV Son Ngr-Rihand	-40	-40	0	40	0.00	0.56	-0.56
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-255	-265	0	330	0.00	5.57	-5.57
400 KV Barh -GKP (D/C)	358	410	430	0	8.16	0.00	8.16
400 kV B'Sharif - Varanasi (D/C)	63	25	-93	81	0.00	0.00	0.00
Sub Total ER	**1746**	**2088**			**54.06**	**6.81**	**47.25**
+/- 800 KV BiswanathCharialli-Agra	960	958	978	0.00	22.65	0.00	22.65
Sub Total NER	**960**	**958**			**22.65**	**0.00**	**22.65**
Total IR Exch	**8755**	**9409**			**222.08**	**14.43**	**207.65**

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
44.79	3.66	48.45	23.02	14.82	16.49	2.78	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
87.95	129.15	217.10	69.91	137.75	207.65	-18.05	8.60	-9.45

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	26	0	0	31	0	0	-0.48

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	1.30	7.49	57.79	75.69	14.24	2.67	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)	
50.17	13.00	49.72	17.50	49.99	0.043	0.064	50.15	49.93	24.31

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	21:58	402	19:03	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	6:06	402	22:27	2.8	2.8	1.7	0.0	4.6
Bareilly(PG)400kV	400	418	6:08	400	19:10	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	6:06	396	19:05	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	6:02	395	11:33	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	420	6:03	397	19:09	0.0	0.0	0.0	0.0	0.0
Bawana	400	416	6:02	397	19:09	0.0	0.0	0.0	0.0	0.0
Bassi	400	417	18:02	396	19:09	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	6:03	390	19:09	0.0	0.0	0.0	0.0	0.0
Moga	400	414	6:03	397	19:09	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	420	6:05	400	19:05	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	422	6:11	402	14:21	0.0	0.0	1.5	0.0	1.5
Kishenpur	400	415	4:00	396	19:16	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	4:03	375	19:20	7.6	27.4	0.0	0.0	7.6
Amritsar	400	418	6:02	400	19:07	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	415	6:01	398	14:16	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	777	6:07	740	19:09	0.0	0.6	0.0	0.0	0.0
Balia	765	787	6:07	753	19:08	0.0	0.0	0.0	0.0	0.0
Moga	765	796	6:02	762	19:08	0.0	0.0	0.0	0.0	0.0
Agra	765	787	6:08	751	19:08	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	790	6:01	759	19:06	0.0	0.0	0.0	0.0	0.0
Unnao	765	770	6:06	743	19:09	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	6:04	760	19:08	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	6:06	762	19:09	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	791	6:06	751	19:09	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	794	6:06	763	14:46	0.0	0.0	0.0	0.0	0.0
Anta	765	784	18:04	762	19:08	0.0	0.0	0.0	0.0	0.0
Phagi	765	786	4:02	758	19:06	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	503.02	1219.07	511.04	1605.30	600.15	655.82
Pong	426.72	384.05	417.38	768.49	420.92	931.43	258.79	422.46
Tehri	829.79	740.04	824.65	1100.54	822.55	1055.00	121.94	247.00
Koteshwar	612.50	598.50	610.22	4.69	609.95	4.44	247.00	213.19
Chamera-I	760.00	748.75	753.65	0.00	0.00	0.00	150.04	127.17
Rihand	268.22	252.98	870.60	639.40	851.70	283.00	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	519.81	6.50	511.24	6.19	136.04	268.24

*** 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	800	0	0	573	148	0	16.87	1.05	17.91
Delhi	617	-9	0	521	118	0	14.53	3.17	17.71
Haryana	1778	320	12	1659	332	12	37.84	2.20	40.04
HP	-691	-217	0	-386	-807	0	-11.97	-7.79	-19.77
J&K	-579	-65	0	-574	-15	0	-14.54	0.36	-14.18
CHD	0	0	0	0	-25	0	0.35	0.00	0.35
Rajasthan	-141	939	4	-141	830	4	-3.38	21.95	18.57
UP	736	121	0	370	392	0	10.29	2.54	12.83
Uttarakhand	-131	154	0	-190	55	0	-4.11	3.67	-0.44
Total	**2388**	**1242**	**16**	**1831**	**1028**	**16**	**45.89**	**27.14**	**73.03**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	924	381	409	0	0	0
Delhi	755	462	490	-127	0	0
Haryana	1952	952	383	-512	12	12
HP	-386	-691	-91	-820	0	0
J&K	-574	-675	84	-65	0	0
CHD	44	0	30	-25	0	0
Rajasthan	-141	-141	1549	508	4	4
UP	764	236	764	0	0	0
Uttarakhand	-131	-190	300	1	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	**5.21%**
ER	**0.00%**
Simultaneous	**5.90%**

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

WR	**43.06%**
ER	**0.00%**
Simultaneous	**22.57%**

(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	0
Haryana	16
Rajasthan	15
Delhi	3
UP	8
Uttarakhand	24
HP	6
J & K	45
Chandigarh	70

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 20.09.2016 :

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 : 20.09.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER