

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 24.09.2016

Date of Reporting : 25.09.2016



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
48217	653	48871	50.12	44823	257	45080	50.11	1062.8	8.08

* 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	74.40	16.42		90.81	98.48	99.38	0.90	190.19	0.00
Haryana	42.30	0.97		43.26	125.98	122.75	-3.23	166.01	0.00
Rajasthan	111.96	1.48	26.74	140.18	62.76	62.66	-0.10	202.84	0.00
Delhi	18.71			18.71	82.29	81.18	-1.11	99.89	0.08
UP	154.18			176.83	124.73	122.17	-2.56	299.00	0.00
Uttarakhand		22.65		23.80	12.68	13.62	0.94	37.42	0.00
HP		21.70		21.70	6.59	8.97	2.38	30.67	0.00
J & K		19.19	0.00	19.19	16.58	12.81	-3.77	32.00	8.00
Chandigarh				0.00	5.12	4.77	-0.36	4.77	0.00
Total	401.55	100.78	26.74	534.50	535.19	528.30	-6.89	1062.80	8.08

* Shortage furnished by the respective constituent's 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	8591	0	-300	861	6918	0	-21	938	8591	20:00	0
Haryana	8302	0	-153	1828	7053	0	73	1587	8302	20:00	0
Rajasthan	8644	0	232	344	8989	0	142	818	9344	1:00	0
Delhi	4445	15	13	544	4227	0	120	212	4713	1:00	0
UP	13402	210	-441	289	14181	0	-75	1229	14511	2:00	0
Uttarakhand	1726	0	-31	-146	1413	0	-32	-84	1822	19:00	0
HP	1166	0	34	-1125	845	0	133	-847	1269	8:00	0
J&K	1714	428	-176	-588	1029	257	-146	-643	1720	19:00	430
Chandigarh	228	0	-48	-30	168	0	1	0	229	19:00	0
Total	48217	653	-870	1977	44823	257	195	3210	48217	20:00	653

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

Diversity is 1.05

UI [OD:(+ve), UG: (-ve)]

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1665	1800	1777	39.00	1625	38.73	0.27
	Rihand I STPS (2*500)	1000	943	955	965	21.29	887	21.42	-0.13
	Rihand II STPS (2*500)	1000	953	889	1004	20.19	841	20.46	-0.27
	Rihand III STPS (2*500)	1000	953	912	951	20.42	851	21.26	-0.85
	Dadri I STPS (4*210)	840	815	481	482	10.61	442	10.77	-0.16
	Dadri II STPS (2*490)	980	970	740	888	17.22	717	18.19	-0.97
	Unchahar I TPS (2*210)	420	147	127	127	3.06	128	3.36	-0.30
	Unchahar II TPS (2*210)	420	400	311	332	7.08	295	7.93	-0.86
	Unchahar III TPS (1*210)	210	200	149	138	3.26	136	3.64	-0.38
	ISTPP (Jhajjar) (3*500)	1500	1425	624	622	13.71	571	13.80	-0.09
	Dadri GPS (4*130.19+2*154.51)	830	789	383	335	8.63	359	9.34	-0.71
	Anta GPS (3*88.71+1*153.2)	419	393	226	227	5.51	230	5.55	-0.04
	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	0.00	0	0.04	-0.03
	Singrauli Solar(15)	15	2	0	0	0.08	3	0.04	0.03
	KHEP(4*200)	800	858	857	856	10.01	417	10.00	0.00
	Sub Total (A)	12112	11138	8454	8704	180	7502	185	-4.49
	B. NPC	NAPS (2*220)	440	191	212	212	4.57	190	4.58
RAPS- B (2*220)		440	370	417	413	8.90	371	8.88	0.01
RAPS- C (2*220)		440	0	0	0	-0.25	-10	0.00	-0.25
Sub Total (B)		1320	561	629	625	13.21	550	13.46	-0.26
C. NHPC	Chamera I HPS (3*180)	540	540	547	179	4.15	173	4.00	0.15
	Chamera II HPS (3*100)	300	301	311	101	3.68	153	3.62	0.07
	Chamera III HPS (3*77)	231	221	227	77	2.39	99	2.32	0.07
	Bairasuli HPS(3*60)	180	179	183	0	1.49	62	1.45	0.04
	Salal-HPS (6*115)	690	475	674	487	12.01	500	11.43	0.58
	Tanakpur-HPS (3*31.4)	94	86	78	82	2.16	90	2.07	0.09
	Uri-I HPS (4*120)	480	210	320	203	5.47	228	5.05	0.43
	Uri-II HPS (4*60)	240	126	167	123	3.10	129	3.01	0.08
	Dhauliganga-HPS (4*70)	280	268	211	77	3.42	142	3.50	-0.08
	Dulhasti-HPS (3*130)	390	383	0	389	9.21	384	9.18	0.03
	Sewa-II HPS (3*40)	120	119	128	0	0.54	22	0.50	0.04
	Parbati 3 (4*130)	520	353	392	0	1.51	63	1.43	0.08
	Sub Total (C)	4065	3261	3238	1717	49	2047	48	1.57
	D.SJVNL	NJPC (6*250)	1500	1605	1553	702	22.83	951	23.03
Rampur HEP (6*88.67)		412	442	437	224	6.54	273	6.42	0.13
Sub Total (D)		1912	2047	1990	926	29.37	1224	29.45	-0.08
E. THDC	Tehri HPS (4*250)	1000	1071	1066	522	11.65	485	11.48	0.17
	Koteshwar HPS (4*100)	400	158	387	183	3.81	159	3.80	0.01
	Sub Total (E)	1400	1229	1453	705	15.46	644	15.27	0.19
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	822	1329	667	19.95	831	19.72	0.23
	Dehar HPS (6*165)	990	517	660	560	12.61	525	12.41	0.20
	Pong HPS (6*66)	396	284	396	132	6.84	285	6.83	0.02
	Sub Total (F)	2765	1623	2385	1359	39.39	1641	38.95	0.44
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	52	76	1.73	72	1.68	0.05
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	415	975	12.36	515	12.33	0.03
	Malana Stg-II HPS (2*50)	100	0	36	30	0.94	39	0.87	0.07
	Shree Cement TPS (2*150)	300	0	294	288	6.80	283	6.87	-0.07
	Budhil HPS(IPP) (2*35)	70	0	30	30	0.73	30	0.95	-0.22
	Sub Total (G)	1662	0	827	1400	22.56	940	22.70	-0.14
H. Total Regional Entities (A-G)	25237	19859	18976	15435	349.17	14549	351.93	-2.76	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	880	870	19.28	803	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	1.98	82	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	395	418	8.80	367	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	1320	660	25.86	1077	
	Talwandi Saboo (3*660)	1980	1100	616	18.51	771	
	Thermal (Total)	6560	3785	2654	74.40	3100	
	Total Hydro	1000	647	693	16.42	684	
	Wind Power	0	0	0	0.00	0	
	Biomass	73	0	0	0.00	0	
	Solar	494	0	0	0.00	0	
	Renewable(Total)	567	0	0	0.00	0	
	Total Punjab	8127	4432	3347	90.81	3784	
	Haryana	Panipat TPS (2*210+2*250)	920	380	364	8.80	366
		DCRTPP (Yamuna nagar) (2*300)	600	465	510	11.12	463
Faridabad GPS (NTPC)(2*137.75+1*156)		432	179	156	3.92	163	
RGTPP (khedar) (IPP) (2*600)		1200	765	776	18.46	769	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1789	1806	42.30	1762	
Total Hydro		62	40	40	0.97	40	
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	1829	1846	43.26	1803	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	861	845	19.90	829
		suratgarh TPS (6*250)	1500	950	954	22.30	929
	Chabra TPS (4*250)	1000	553	550	13.58	566	
	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	136	136	3.50	146	
	RAPS A (NPC) (1*100+1*200)	300	167	168	4.13	172	
	Barsingsar (NLC) (2*125)	250	225	225	5.28	220	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	466	466	10.98	458	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	408	408	9.96	415	
	Kawai(Adani) (2*660)	1320	870	864	22.32	930	
	Thermal (Total)	8876	4636	4616	111.96	4665	
	Total Hydro	550	126	90	1.48	62	
	Wind power	4017	680	1460	26.08	1087	
	Biomass	99	19	19	0.47	19	
	Solar	1295	1	0	0.19	8	
	Renewable/Others (Total)	5411	700	1479	26.74	1114	
	Total Rajasthan	14837	5462	6185	140.18	5841	
UP	Anpara TPS (3*210+2*500)	1630	975	1011	23.93	997	
	Obra TPS (2*50+2*94+5*200)	1194	332	327	7.91	330	
	Paricha TPS (2*110+2*220+2*250)	1160	903	909	18.04	752	
	Panki TPS (2*105)	210	149	153	3.35	140	
	Harduaganj TPS (1*60+1*105+2*250)	665	509	437	10.26	428	
	Tanda TPS (NTPC) (4*110)	440	350	345	8.36	349	
	Roza TPS (IPP) (4*300)	1200	1076	1103	25.17	1049	
	Anpara-C (IPP) (2*600)	1200	891	860	20.64	860	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	396	7.58	316	
	Anpara-D(2*500)	1000	448	375	9.25	386	
	Lalitpur TPS(3*660)	1980	413	492	9.25	386	
	Bara(2*660)	1320	385	383	9.24	385	
	Thermal (Total)	12449	6836	6791	152.98	6374	
	Vishnuparyag HPS (IPP)(4*110)	440	395	355	9.03	376	
	Alaknada(4*82.5)	330	241	241	5.57	232	
	Other Hydro	527	340	347	8.05	336	
	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	7862	7784	176.83	7368		
Uttarakhand	Other Hydro	1250	792	770	18.38	766	
	Total Gas	225	229	231	5	226	
	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	1021	1001	23.80	992	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	71	70	1.84	77	
	Pragati Gas Turbine (2x104+ 1x122)	330	150	150	3.64	152	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	253	253	6.08	253	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.16	298	
	Thermal (Total)	2917	804	803	18.71	780	
	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	804	803	18.71	780		

HP	Baspa HPS (IPP) (3*100)	300	167	176	4.85	202
	Malana HPS (IPP) (2*43)	86	40	30	0.82	34
	Other Hydro	878	442	402	10.40	433
	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)		238	229	5.63	235
	Renewable(Total)	0	238	229	5.63	235
	Total HP	1264	887	837	21.70	904
	J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	16.42
Other Hydro/IPP		560	138	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	871	826	19.19	799
Total State Control Area Generation		49862	23168	22629	534.50	22271
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6641	7573	203.55	8481	
Total Regional Availability(Gross)	75099	48784	45637	1087.22	45301	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	10426	6644	158.38	6599
State Control Area Hydro	7228	4568	4430	100.78	4425
Total Regional Hydro	19462	14994	11074	259.16	11024

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.10	4
State Control Area Renewable	6434	938	1708	32.37	1349
Total Regional Renewable	6464	938	1708	32.47	1353

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychall(HVDC B/B)	-50	-200	250	500	1.69	0.00	1.69
765 KV Gwalior-Agra (D/C)	1983	2590	2963	0	58.09	0.00	58.09
400 KV Zerda-Kankroli	56	184	18	34	1.32	0.00	1.32
400 KV Zerda-Bhinmal	49	84	200	127	1.04	0.00	1.04
220 KV Auraiya-Malanpur	-44	-37	0	72	0.00	0.79	-0.79
220 KV Badod-Kota/Morak	13	64	106	34	1.20	0.00	1.20
Mundra-Mohindergerh(HVDC Bipole)	2099	2002	2102	0.00	50.83	0.00	50.83
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1136	1198	1308	0	25.93	0.00	25.93
Sub Total WR	5242	5885			140.11	0.79	139.32
Pusauli Bypass/HVDC	0	0	0	0	0.00	0.00	0.00
400 KV MZP- GKP (D/C)	67	595	643	0	11.08	0.00	11.08
400 KV Patna-Balia(D/C) X 2	221	372	393	0	7.68	0.00	7.68
400 KV B Sharif-Balia (D/C)	16	162	170	0	2.78	0.00	2.78
765 KV Gaya-Balia	178	294	295	0	2.90	0.00	2.90
765 KV Gaya-Varanasi (D/C)	-272	-627	627	0	11.30	0.00	11.30
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-22	-32	0	36	0.00	0.48	-0.48
132 KV Son Ngr-Rihand	-5	-24	0	32	0.00	0.52	-0.52
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-71	8	108	87	0.50	0.00	0.50
400 KV Barh -GKP (D/C)	242	344	350	0	6.29	0.00	6.29
400 kV B Sharif - Varanasi (D/C)	45	-104	189	59	2.15	0.00	2.15
Sub Total ER	399	988			44.68	1.01	43.68
+/- 800 KV BiswanathChariali-Agra	1000	700	1000	0.00	20.56	0.00	20.56
Sub Total NER	1000	700			20.56	0.00	20.56
Total IR Exch	6641	7573			203.35	1.80	203.55

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
39.44	3.71	43.14	27.22	17.90	8.20	0.00	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
78.57	137.05	215.61	64.24	139.32	203.55	-14.33	2.27	-12.06

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-24	0	0	29	0	0	-0.31

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	1.30	36.10	72.27	23.09	3.39	0.10	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time						
50.22	15.04	49.78	18.42	50.02	0.028	0.050	50.20	50.00	27.73

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	18:01	401	23:09	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	17:05	406	0:47	0.0	0.0	9.7	0.0	9.7
Bareilly(PG)400kV	400	422	17:44	399	11:35	0.0	0.0	1.6	0.0	1.6
Kanpur	400	417	17:43	403	11:23	0.0	0.0	0.0	0.0	0.0
Dadri	400	415	6:04	397	11:37	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	423	6:05	401	11:38	0.0	0.0	8.3	0.0	8.3
Bawana	400	420	6:02	400	11:38	0.0	0.0	0.0	0.0	0.0
Bassi	400	425	4:02	401	11:38	0.0	0.0	3.9	0.0	3.9
Hissar	400	416	4:03	396	11:29	0.0	0.0	0.0	0.0	0.0
Moga	400	420	4:06	399	11:29	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	424	6:04	406	11:36	0.0	0.0	14.4	0.0	14.4
Nalagarh	400	426	3:58	407	12:43	0.0	0.0	26.3	0.0	26.3
Kishenpur	400	422	3:55	402	19:11	0.0	0.0	3.8	0.0	3.8
Wagoora	400	417	4:02	373	19:50	8.2	26.0	0.0	0.0	8.2
Amritsar	400	427	3:59	403	12:36	0.0	0.0	25.9	0.0	25.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	414	17:02	404	11:08	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	6:04	393	11:43	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	783	17:59	748	18:56	0.0	0.0	0.0	0.0	0.0
Balia	765	795	18:02	768	0:50	0.0	0.0	0.0	0.0	0.0
Moga	765	806	4:02	756	11:38	0.0	0.0	7.7	0.0	7.7
Agra	765	796	18:02	757	11:42	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	4:02	763	11:25	0.0	0.0	0.0	0.0	0.0
Unnao	765	772	18:03	746	11:27	6.4	6.4	0.0	0.0	6.4
Lucknow	765	800	17:44	768	11:40	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	6:04	762	11:28	0.0	0.0	7.0	0.0	7.0
Jhatikara	765	798	4:03	760	11:40	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	810	17:45	759	11:40	0.0	0.0	5.8	0.0	5.8
Anta	765	793	3:59	767	11:52	0.0	0.0	0.0	0.0	0.0
Phagi	765	797	4:04	768	11:23	0.0	0.0	0.0	0.0	0.0

Note : '0' in Max / Min Col -> Telemetry Outage

IX. Reservoir Parameters:

Name of Reservoir	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	503.08	1232.31	511.55	1620.46	594.46	594.46
Pong	426.72	384.05	417.06	755.83	421.21	946.20	202.01	410.31
Tehri	829.79	740.04	824.65	1107.95	822.80	1065.64	164.77	251.00
Koteswar	612.50	598.50	610.17	4.69	609.27	4.40	251.00	250.90
Chamera-I	760.00	748.75	754.83	0.00	0.00	0.00	124.00	112.56
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	1157.00	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	519.14	5.66	513.65	1.95	151.95	232.88

* 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	938	0	0	740	122	0	23.10	0.67	23.77
Delhi	699	-487	0	585	-40	0	16.51	-4.41	12.10
Haryana	1826	-239	0	1541	287	0	38.12	-0.11	38.01
HP	-690	-157	0	-670	-455	0	-12.84	-7.33	-20.17
J&K	-578	-65	0	-573	-15	0	-14.51	1.34	-13.17
CHD	0	0	0	0	-30	0	0.35	-0.14	0.21
Rajasthan	-154	972	0	-154	498	0	-3.70	16.04	12.34
UP	846	383	0	367	-78	0	10.73	6.30	17.02
Uttarakhand	-195	112	0	-271	125	0	-4.90	3.15	-1.75
Total	2691	519	0	1564	413	0	52.85	15.50	68.35

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1219	595	267	0	0	0
Delhi	793	481	204	-621	0	0
Haryana	1885	1299	300	-795	0	0
HP	-385	-690	-70	-688	0	0
J&K	-573	-674	248	-116	0	0
CHD	44	0	30	-55	0	0
Rajasthan	-154	-154	1126	464	0	0
UP	861	219	1091	-78	0	0
Uttarakhand	-195	-297	279	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	4.51%
ER	0.00%
Simultaneous	1.74%

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

WR	25.35%
ER	0.00%
Simultaneous	5.56%

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

Rihand - Dadri	0.00%
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XII Number of times of Non Compliance of Sign Change in UI in consecutive 12 blocks in the day(1 block = 15 min)

Punjab	4
Haryana	27
Rajasthan	1
Delhi	30
UP	13
Uttarakhand	30
HP	53
J & K	15
Chandigarh	30

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 24.09.2016 :**
Normal**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.