

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 22.09.2016

Date of Reporting : 23.09.2016



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
49219	931	50150	50.13	46065	311	46376	50.13	1084.3	12.07

* 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:

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	78.75	17.57		97.52	90.08	90.93	0.85	188.45	0.00
Haryana	43.14	0.78		43.92	130.91	127.06	-3.85	170.98	0.00
Rajasthan	119.50	1.30	11.00	131.80	79.59	84.22	4.62	216.02	0.00
Delhi	24.56			24.56	80.38	80.11	-0.27	104.68	0.05
UP	153.56	25.05		178.61	132.20	128.84	-3.36	307.44	3.37
Uttarakhand	19.98			25.51	10.75	8.33	-2.42	33.84	0.00
HP	19.75			19.75	4.23	3.93	-0.30	23.67	0.31
J & K	20.05		0.00	20.05	16.64	13.31	-3.33	33.36	8.34
Chandigarh				0.00	5.38	5.87	0.49	5.87	0.00
Total	419.51	104.48	11.00	541.72	550.16	542.58	-7.58	1084.31	12.07

* Shortage furnished by the respective constituent's Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

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	8659	0	148	207	7034	0	-39	932	8659	20:00	0
Haryana	8457	0	-107	2008	7557	0	59	2381	8457	20:00	0
Rajasthan	9170	0	142	471	9667	0	233	674	9988	1:00	0
Delhi	4629	0	-10	409	4489	0	224	21	4977	1:00	0
UP	13451	505	-84	735	14168	45	-682	1506	14862	2:00	1175
Uttarakhand	1752	0	46	9	1046	0	-338	-32	1803	19:00	0
HP	1119	0	30	-1351	830	0	20	-989	1210	8:00	0
J&K	1704	426	35	-439	1063	266	-237	-643	1705	19:00	426
Chandigarh	280	0	14	-15	210	0	-1	0	285	12:00	0
Total	49219	931	213	2034	46065	311	-761	3849	49219	20:00	931

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

III. Regional Entities :

Entity	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	Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1811	1937	1796	40.82	1701	41.37	-0.55	
	Rihand I STPS (2*500)	1000	943	925	871	20.28	845	21.12	-0.84	
	Rihand II STPS (2*500)	1000	885	842	481	18.50	771	20.12	-1.63	
	Rihand III STPS (2*500)	1000	953	975	798	20.31	846	21.46	-1.15	
	Dadri I STPS (4*210)	840	815	449	529	12.09	504	12.95	-0.86	
	Dadri II STPS (2*490)	980	970	940	852	19.46	811	21.55	-2.09	
	Unchahar I TPS (2*210)	420	145	153	120	3.10	129	3.12	-0.03	
	Unchahar II TPS (2*210)	420	400	371	303	7.29	304	8.06	-0.77	
	Unchahar III TPS (1*210)	210	200	164	131	3.44	143	4.01	-0.58	
	ISTPP (Jhajjar) (3*500)	1500	1367	659	597	12.95	540	13.26	-0.31	
	Dadri GPS (4*130.19+2*154.51)	830	789	315	323	6.58	274	6.84	-0.26	
	Anta GPS (3*88.71+1*153.2)	419	393	207	194	5.06	211	4.98	0.08	
	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	0.02	1	0.04	-0.02	
	Singrauli Solar(15)	15	2	0	0	0.05	2	0.06	-0.01	
	KHEP(4*200)	800	858	850	220	11.73	489	11.50	0.23	
Sub Total (A)	12112	11156	8787	7215	182	7571	190	-8.77		
B. NPC	NAPS (2*220)	440	180	211	214	4.59	191	4.32	0.27	
	RAPS- B (2*220)	440	369	414	418	8.88	370	8.86	0.03	
	RAPS- C (2*220)	440	88	0	219	1.61	67	2.10	-0.49	
	Sub Total (B)	1320	637	625	851	15.08	628	15.28	-0.19	
C. NHPC	Chamera I HPS (3*180)	540	540	555	182	4.09	170	4.00	0.09	
	Chamera II HPS (3*100)	300	301	310	304	4.42	184	4.35	0.07	
	Chamera III HPS (3*77)	231	221	228	152	2.94	122	2.90	0.04	
	Bairasuli HPS(3*60)	180	179	184	0	1.79	75	1.77	0.03	
	Salal-HPS (6*115)	690	600	678	240	15.23	634	14.40	0.83	
	Tanakpur-HPS (3*31.4)	94	85	93	79	2.15	90	2.04	0.11	
	Uri-I HPS (4*120)	480	224	338	226	5.55	231	5.38	0.17	
	Uri-II HPS (4*60)	240	127	181	119	3.12	130	3.05	0.07	
	Dhauliganga-HPS (4*70)	280	245	278	68	4.02	167	4.00	0.02	
	Dulhasti-HPS (3*130)	390	383	400	392	9.28	387	9.18	0.10	
	Sewa-II HPS (3*40)	120	119	69	0	0.60	25	0.60	0.00	
	Parbati 3 (4*130)	520	451	263	0	2.18	91	2.21	-0.03	
	Sub Total (C)	4065	3475	3576	1762	55	2307	54	1.48	
	D.SJVNL	NJPC (6*250)	1500	1605	1614	1251	30.42	1267	30.63	-0.22
Rampur HEP (6*88.67)		412	442	445	353	8.78	366	8.53	0.25	
Sub Total (D)		1912	2047	2059	1604	39.19	1633	39.16	0.03	
E. THDC	Tehri HPS (4*250)	1000	1071	1058	793	11.73	489	11.50	0.23	
	Koteshwar HPS (4*100)	400	160	396	183	3.86	161	3.85	0.01	
	Sub Total (E)	1400	1232	1454	976	15.60	650	15.35	0.25	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	849	667	20.56	857	20.38	0.18		
	Dehar HPS (6*165)	990	576	825	580	14.04	585	13.83	0.21	
	Pong HPS (6*66)	396	287	396	198	6.93	289	6.89	0.04	
	Sub Total (F)	2765	1713	2551	1445	41.53	1730	41.10	0.43	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	48	80	2.05	85	2.01	0.03	
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1066	748	17.22	718	17.63	-0.41	
	Malana Stg-II HPS (2*50)	100	0	46	50	1.14	48	1.14	0.00	
	Shree Cement TPS (2*150)	300	0	287	290	6.87	286	6.95	-0.08	
	Budhil HPS(IPP) (2*35)	70	0	38	38	0.92	38	1.07	-0.15	
	Sub Total (G)	1662	0	1484	1206	28.20	1175	28.81	-0.61	
H. Total Regional Entities (A-G)	25237	20259	20537	15058	376.66	15694	384.04	-7.39		

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	870	870	19.45	810	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	95	180	3.48	145	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	407	596	11.24	468	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	1320	660	26.33	1097	
	Talwandi Saboo (3*660)	1980	1127	616	18.29	762	
	Thermal (Total)	6560	3819	2922	78.75	3281	
	Total Hydro	1000	759	709	17.57	732	
	Wind Power	0	0	0	0.00	0	
	Biomass	73	38	38	0.90	38	
	Solar	494	12	12	0.29	12	
	Renewable(Total)	567	50	50	1.19	50	
	Total Punjab	8127	4628	3681	97.52	4063	
	Haryana	Panipat TPS (2*210+2*250)	920	370	374	8.84	368
		DCRTPP (Yamuna nagar) (2*300)	600	555	473	11.13	464
Faridabad GPS (NTPC)(2*137.75+1*1156)		432	187	298	4.87	203	
RGTPP (khedar) (IPP) (2*600)		1200	785	771	18.31	763	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1897	1916	43.14	1798	
Total Hydro		62	35	41	0.78	33	
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	1932	1957	43.92	1830	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	953	933	22.10	921
		suratgarh TPS (6*250)	1500	1121	1135	25.80	1075
	Chabra TPS (4*250)	1000	297	647	11.50	479	
	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	107	108	2.50	104	
	RAPS A (NPC) (1*100+1*200)	300	162	166	4.10	171	
	Barsingsar (NLC) (2*125)	250	225	227	5.30	221	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	700	702	16.70	696	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	550	551	16.70	696	
	Kawai(Adani) (2*660)	1320	628	629	14.80	617	
	Thermal (Total)	8876	4743	5098	119.50	4979	
	Total Hydro	550	69	92	1.30	54	
	Wind power	4017	347	1001	10.40	433	
	Biomass	99	25	25	0.60	25	
	Solar	1295	0	0	0.00	0	
	Renewable/Others (Total)	5411	372	1026	11.00	458	
	Total Rajasthan	14837	5184	6216	131.80	5492	
UP	Anpara TPS (3*210+2*500)	1630	976	869	21.39	891	
	Obra TPS (2*50+2*94+5*200)	1194	298	323	7.44	310	
	Paricha TPS (2*110+2*220+2*250)	1160	723	686	16.17	674	
	Panki TPS (2*105)	210	153	153	3.62	151	
	Harduaganj TPS (1*60+1*105+2*250)	665	443	438	10.50	437	
	Tanda TPS (NTPC) (4*110)	440	375	352	8.35	348	
	Roza TPS (IPP) (4*300)	1200	1116	1107	26.68	1111	
	Anpara-C (IPP) (2*600)	1200	765	810	19.18	799	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	365	284	7.97	332	
	Anpara-D(2*500)	1000	397	433	7.94	331	
	Lalitpur TPS(3*660)	1980	431	508	10.73	447	
	Bara(2*660)	1320	400	549	12.40	517	
	Thermal (Total)	12449	6442	6512	152.36	6348	
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.47	436	
	Alaknada(4*82.5)	330	254	340	6.77	282	
	Other Hydro	527	357	353	7.81	325	
	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	7538	7690	178.61	7442		
Uttarakhand	Other Hydro	1250	869	820	19.98	832	
	Total Gas	225	225	231	6	231	
	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	1094	1051	25.51	1063	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.16	-7	
	Delhi Gas Turbine (6x30 + 3x34)	282	72	72	1.87	78	
	Pragati Gas Turbine (2x104+ 1x122)	330	150	151	3.67	153	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	502	501	12.13	505	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.06	294	
	Thermal (Total)	2917	1054	1054	24.56	1024	
	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	1054	1054	24.56	1024		

HP	Baspa HPS (IPP) (3*100)	300	304	304	7.12	297
	Malana HPS (IPP) (2*43)	86	38	61	1.28	53
	Other Hydro	878	493	505	11.34	473
	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 HP	1264	835	870	19.75	823
	J & K	Baglihar HPS (IPP) (3*150+2*150)	750	732	732	17.28
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	869	825	20.05	835
Total State Control Area Generation		49862	23134	23344	541.72	22572
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6812	8742	178.21	7425	
Total Regional Availability(Gross)	75099	50482	47144	1096.59	45691	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	11649	6884	183.82	7659
State Control Area Hydro	7228	4707	4716	104.48	4584
Total Regional Hydro	19462	16356	11600	288.30	12243

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.09	4
State Control Area Renewable	6434	422	1076	12.19	508
Total Regional Renewable	6464	422	1076	12.28	512

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)	-250	-150	0	450	0.00	4.92	-4.92
765 KV Gwalior-Agra (D/C)	2136	2542	2931	0	49.43	0.00	49.43
400 KV Zerda-Kankroli	76	-1	92	98	0.09	0.00	0.09
400 KV Zerda-Bhinmal	103	34	160	58	1.51	0.00	1.51
220 KV Auraiya-Malanpur	-4	-3	0	24	0.00	1.00	-1.00
220 KV Badod-Kota/Morak	63	43	85	30	0.07	0.00	0.07
Mundra-Mohinderghar(HVDC Bipole)	2203	2200	2206	0.00	53.21	0.00	53.21
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	926	1087	1326	0	22.87	0.00	22.87
Sub Total WR	5253	5752			127.17	5.91	121.26
Pusauli Bypass/HVDC	0	400	400	0	3.86	0.00	3.86
400 KV MZP- GKP (D/C)	56	533	599	0	10.36	0.00	10.36
400 KV Patna-Balia(D/C) X 2	193	466	532	0	8.81	0.00	8.81
400 KV B Sharif-Balia (D/C)	17	58	127	0	1.89	0.00	1.89
765 KV Gaya-Balia	170	296	314	0	2.49	0.00	2.49
765 KV Gaya-Varanasi (D/C)	267	524	577	0	9.10	0.00	9.10
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-48	-28	0	48	0.00	0.61	-0.61
132 KV Son Ngr-Rihand	-26	-28	0	31	0.00	0.64	-0.64
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-101	-240	96	242	0.00	1.95	-1.95
400 KV Barh -GKP (D/C)	264	328	356	0	6.64	0.00	6.64
400 kV B Sharif - Varanasi (D/C)	67	-19	149	67	0.78	0.00	0.78
Sub Total ER	859	2290			43.92	3.20	40.72
+/- 800 KV BiswanathChariali-Agra	700	700	700	0.00	16.23	0.00	16.23
Sub Total NER	700	700			16.23	0.00	16.23
Total IR Exch	6812	8742			187.32	9.11	178.21

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
41.48	3.79	45.27	30.20	7.40	2.61	0.74	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
78.08	117.98	196.06	56.95	121.26	178.21	-21.13	3.28	-17.85

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	23	8	0	29	0	0	-0.27

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	0.88	29.75	67.34	27.12	4.79	0.00	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						
50.19	13.01	49.86	18.23	50.02	0.030	0.048	50.20	50.05	32.66

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	410	4:01	401	18:53	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	8:04	401	19:05	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	423	4:03	400	14:05	0.0	0.0	7.2	0.0	7.2
Kanpur	400	416	5:17	399	19:04	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	8:05	399	19:04	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	422	8:00	403	19:04	0.0	0.0	2.8	0.0	2.8
Bawana	400	420	6:03	402	19:04	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	4:01	398	19:05	0.0	0.0	0.7	0.0	0.7
Hissar	400	414	4:02	397	19:04	0.0	0.0	0.0	0.0	0.0
Moga	400	418	4:04	402	19:05	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	423	5:17	408	19:07	0.0	0.0	18.2	0.0	18.2
Nalagarh	400	424	6:04	409	19:12	0.0	0.0	26.2	0.0	26.2
Kishenpur	400	417	4:02	402	19:05	0.0	0.0	0.0	0.0	0.0
Wagoora	400	415	4:01	375	19:08	4.7	24.7	0.0	0.0	4.7
Amritsar	400	424	4:01	407	19:04	0.0	0.0	22.6	0.0	22.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	5:18	408	11:03	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	780	7:15	744	19:04	0.0	0.0	0.0	0.0	0.0
Balia	765	786	5:19	755	19:04	0.0	0.0	0.0	0.0	0.0
Moga	765	806	8:03	772	19:04	0.0	0.0	12.3	0.0	12.3
Agra	765	797	8:03	757	19:04	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	801	4:01	770	19:03	0.0	0.0	1.1	0.0	1.1
Unnao	765	771	5:17	742	19:02	0.0	0.0	0.0	0.0	0.0
Lucknow	765	793	5:20	759	19:05	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	8:03	770	19:04	0.0	0.0	24.8	0.0	24.8
Jhatikara	765	800	8:00	765	19:04	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	801	4:02	764	19:04	0.0	0.0	1.1	0.0	1.1
Anta	765	794	4:03	768	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	798	4:01	759	19:06	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	503.05	1219.07	511.29	1605.30	699.45	628.61
Pong	426.72	384.05	417.21	768.49	420.86	931.43	196.97	412.72
Tehri	829.79	740.04	824.70	1107.95	822.60	1065.64	187.15	253.00
Koteswar	612.50	598.50	610.40	4.77	609.99	4.56	253.00	254.54
Chamera-I	760.00	748.75	754.46	0.00	0.00	0.00	160.44	111.18
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	519.42	6.62	511.37	4.72	152.20	258.30

* 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	932	0	0	159	49	0	12.34	0.22	12.57
Delhi	617	-595	0	443	-35	0	13.50	-4.62	8.88
Haryana	2084	297	0	1692	317	0	44.00	-0.47	43.52
HP	-690	-299	0	-386	-966	0	-12.38	-9.38	-21.76
J&K	-578	-65	0	-573	134	0	-14.51	1.04	-13.48
CHD	0	0	0	0	-15	0	0.35	0.06	0.41
Rajasthan	-141	814	0	-141	612	0	-3.38	17.39	14.01
UP	795	711	0	354	381	0	9.54	5.19	14.73
Uttarakhand	-191	158	0	-191	199	0	-3.84	5.00	1.16
Total	2828	1022	0	1357	676	0	45.62	14.42	60.04

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1195	159	70	0	0	0
Delhi	711	443	205	-739	0	0
Haryana	2085	1645	327	-771	0	0
HP	-377	-690	-56	-966	0	0
J&K	-573	-674	184	-116	0	0
CHD	44	0	49	-20	0	0
Rajasthan	-141	-141	1399	377	0	0
UP	818	175	1198	-75	0	0
Uttarakhand	5	-191	380	72	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	22.22%
ER	0.00%
Simultaneous	5.90%

(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	15
Haryana	17
Rajasthan	40
Delhi	28
UP	17
Uttarakhand	48
HP	7
J & K	13
Chandigarh	24

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 22.09.2016 :

XVI. Synchronisation of new generating units :

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

165 MVAR ACF-type 3-C (C1) filter sub bank at HVDC Kurukshetra substation first time charged at 1612 Hrs and then discharged at 2017Hrs.

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.