

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 23.09.2016

Date of Reporting : 24.09.2016



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
49491	758	50249	50.14	45459	670	46129	50.08	1092.5	13.73

* 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	78.45	16.17		95.69	93.57	93.99	0.42	189.68	0.00
Haryana	48.39	0.90		49.30	119.67	118.72	-0.95	168.01	0.00
Rajasthan	123.90	1.40	6.76	132.06	74.92	77.84	2.93	209.90	5.10
Delhi	25.73			25.73	77.47	78.16	0.69	103.90	0.02
UP	159.69	24.14		183.83	130.68	130.05	-0.62	313.88	0.00
Uttarakhand	19.66			25.09	12.12	12.34	0.22	37.43	0.00
HP	21.93			21.93	3.90	8.84	4.95	30.78	0.08
J & K	20.36		0.00	20.36	15.03	13.75	-1.28	34.11	8.53
Chandigarh				0.00	5.19	4.77	-0.42	4.77	0.00
Total	436.16	104.56	6.76	553.99	532.54	538.46	5.93	1092.45	13.73

* 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	8447	0	-134	461	6907	0	19	961	8447	20:00	0
Haryana	8422	0	-247	1218	6972	0	-78	1943	8482	21:00	0
Rajasthan	9321	0	-67	295	9507	354	246	447	9644	24:00	0
Delhi	4721	0	58	290	4064	0	145	1	4903	24:00	0
UP	13624	330	-63	295	14601	45	249	1900	14601	3:00	45
Uttarakhand	1790	0	91	-126	1378	0	22	-188	1838	19:00	0
HP	1221	0	68	-1292	796	0	456	-998	1280	8:00	0
J&K	1714	428	-81	-588	1082	271	-48	-643	1783	8:00	446
Chandigarh	231	0	-33	30	152	0	-8	0	242	19:00	0
Total	49491	758	-410	581	45459	670	1004	3423	49491	20:00	758

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

Diversity is 1.03

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

III. Regional Entities :

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	1631	1754	1718	39.35	1640	39.09	0.26
Rihand I STPS (2*500)	1000	939	974	956	22.05	919	22.29	-0.24
Rihand II STPS (2*500)	1000	953	843	1025	22.09	920	22.51	-0.43
Rihand III STPS (2*500)	1000	953	966	996	22.37	932	22.69	-0.33
Dadri I STPS (4*210)	840	815	547	423	12.16	507	13.10	-0.94
Dadri II STPS (2*490)	980	970	950	848	19.62	818	21.30	-1.67
Unchahar I TPS (2*210)	420	145	152	131	3.20	133	3.36	-0.16
Unchahar II TPS (2*210)	420	400	385	362	8.07	336	9.03	-0.96
Unchahar III TPS (1*210)	210	200	202	178	3.93	164	4.58	-0.65
ISTPP (Jhajjar) (3*500)	1500	1425	998	602	14.37	599	14.56	-0.19
Dadri GPS (4*130.19+2*154.51)	830	787	366	271	7.87	328	8.53	-0.67
Anta GPS (3*88.71+1*153.2)	419	393	230	216	5.48	228	5.51	-0.03
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	0.06	2	0.05	0.01
KHEP(4*200)	800	858	852	219	11.52	480	11.00	0.52
Sub Total (A)	12112	11096	9219	7945	192	8007	198	-5.50
B. NPC								
NAPS (2*220)	440	220	212	215	4.63	193	5.28	-0.65
RAPS- B (2*220)	440	369	369	369	8.86	369	8.86	0.00
RAPS- C (2*220)	440	19	0	0	-0.25	-11	0.05	-0.30
Sub Total (B)	1320	608	581	584	13.23	551	14.19	-0.96
C. NHPC								
Chamera I HPS (3*180)	540	540	471	183	4.12	172	3.93	0.19
Chamera II HPS (3*100)	300	301	312	101	4.17	174	4.03	0.15
Chamera III HPS (3*77)	231	221	227	75	2.66	111	2.57	0.09
Bairasuli HPS(3*60)	180	179	183	0	1.55	64	1.50	0.04
Salal-HPS (6*115)	690	526	676	627	13.45	560	12.61	0.83
Tanakpur-HPS (3*31.4)	94	88	91	94	2.21	92	2.11	0.10
Uri-I HPS (4*120)	480	223	337	232	5.70	238	5.37	0.33
Uri-II HPS (4*60)	240	130	123	181	3.19	133	3.12	0.07
Dhauliganga-HPS (4*70)	280	280	275	71	3.71	155	3.62	0.09
Dulhasti-HPS (3*130)	390	383	397	392	9.30	387	9.18	0.12
Sewa-II HPS (3*40)	120	119	37	0	0.56	23	0.50	0.06
Parbati 3 (4*130)	520	309	393	0	1.66	69	1.56	0.10
Sub Total (C)	4065	3298	3521	1956	52	2178	50	2.17
D.SJVNL								
NJPC (6*250)	1500	1605	1612	752	25.83	1076	25.96	-0.13
Rampur HEP (6*68.67)	412	442	440	222	7.38	307	7.24	0.14
Sub Total (D)	1912	2047	2052	974	33.21	1384	33.20	0.01
E. THDC								
Tehri HPS (4*250)	1000	1071	783	500	11.21	467	10.76	0.45
Koteshwar HPS (4*100)	400	167	400	182	3.88	162	3.85	0.03
Sub Total (E)	1400	1238	1183	682	15.09	629	14.61	0.48
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	836	1346	669	20.40	850	20.07	0.33
Dehar HPS (6*165)	990	576	825	560	14.00	583	13.82	0.18
Pong HPS (6*66)	396	270	396	198	6.53	272	6.48	0.05
Sub Total (F)	2765	1682	2567	1427	40.93	1705	40.38	0.55
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	44	90	1.85	77	1.99	-0.14
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	565	14.37	599	14.32	0.05
Malana Stg-II HPS (2*50)	100	0	30	39	0.94	39	0.95	-0.01
Shree Cement TPS (2*150)	300	0	291	292	6.88	286	6.95	-0.07
Budhil HPS(IPP) (2*35)	70	0	38	38	0.89	37	1.07	-0.18
Sub Total (G)	1662	0	1503	1024	24.92	1038	25.27	-0.35
H. Total Regional Entities (A-G)	25237	19970	20626	14592	371.82	15492	375.42	-3.60

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	850	870	20.67	861	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	90	2.19	91	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	462	433	9.68	403	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	1320	660	27.02	1126	
	Talwandi Saboo (3*660)	1980	1000	616	18.92	788	
	Thermal (Total)	6560	3752	2669	78.45	3269	
	Total Hydro	1000	683	530	16.17	674	
	Wind Power	0	0	0	0.00	0	
	Biomass	73	34	34	0.81	34	
	Solar	494	0	0	0.27	11	
	Renewable(Total)	567	34	34	1.08	45	
	Total Punjab	8127	4469	3233	95.69	3987	
	Haryana	Panipat TPS (2*210+2*250)	920	392	375	9.04	377
		DCRTPP (Yamuna nagar) (2*300)	600	556	471	12.34	514
Faridabad GPS (NTPC)(2*137.75+1*1156)		432	183	159	4.26	177	
RGTPP (khedar) (IPP) (2*600)		1200	1138	781	22.76	948	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	2269	1786	48.39	2016	
Total Hydro		62	40	34	0.90	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	2309	1820	49.30	2054	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	928	946	24.90	1038
		suratgarh TPS (6*250)	1500	1098	1081	25.60	1067
	Chabra TPS (4*250)	1000	505	162	12.80	533	
	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	107	3.30	138	
	RAPS A (NPC) (1*100+1*200)	300	167	168	4.70	196	
	Barsingar (NLC) (2*125)	250	225	224	6.20	258	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	522	707	17.10	713	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	522	561	12.80	533	
	Kawai(Adani) (2*660)	1320	719	622	16.50	688	
	Thermal (Total)	8876	4822	4578	123.90	5163	
	Total Hydro	550	102	69	1.40	58	
	Wind power	4017	225	920	6.20	258	
	Biomass	99	23	23	0.56	23	
	Solar	1295	1	0	0.00	0	
	Renewable/Others (Total)	5411	249	943	6.76	282	
Total Rajasthan	14837	5173	5590	132.06	5502		
UP	Anpara TPS (3*210+2*500)	1630	942	869	22.86	952	
	Obra TPS (2*50+2*94+5*200)	1194	353	323	7.71	321	
	Paricha TPS (2*110+2*220+2*250)	1160	929	686	20.70	862	
	Panki TPS (2*105)	210	153	153	3.66	152	
	Harduaganj TPS (1*60+1*105+2*250)	665	436	438	10.45	436	
	Tanda TPS (NTPC) (4*110)	440	344	352	8.25	344	
	Roza TPS (IPP) (4*300)	1200	1094	1107	26.21	1092	
	Anpara-C (IPP) (2*600)	1200	851	810	19.16	798	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	284	9.33	389	
	Anpara-D(2*500)	1000	437	433	9.77	407	
	Lalitpur TPS(3*660)	1980	416	508	10.69	446	
	Bara(2*660)	1320	384	549	9.70	404	
	Thermal (Total)	12449	6744	6512	158.49	6604	
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	9.83	409	
	Alaknada(4*82.5)	330	253	253	6.22	259	
	Other Hydro	527	357	353	8.09	337	
	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	7839	7603	183.83	7659		
Uttarakhand	Other Hydro	1250	805	811	19.66	819	
	Total Gas	225	225	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	1030	1042	25.09	1046	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	70	70	1.86	77	
	Pragati Gas Turbine (2x104+ 1x122)	330	152	150	3.64	152	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	504	505	12.40	517	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.85	327	
	Thermal (Total)	2917	1056	1055	25.73	1072	
	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	1056	1055	25.73	1072		

HP	Baspa HPS (IPP) (3*100)	300	247	247	5.27	220
	Malana HPS (IPP) (2*43)	86	37	19	0.98	41
	Other Hydro	878	473	418	10.38	432
	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)		229	217	5.31	221
	Renewable(Total)	0	229	217	5.31	221
	Total HP	1264	986	901	21.93	914
	J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59
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	20.36	848
Total State Control Area Generation		49862	23733	22070	553.99	23083
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6091	8027	185.91	7746	
Total Regional Availability(Gross)	75099	50449	44689	1111.72	46322	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	11349	5952	170.17	7090
State Control Area Hydro	7228	4757	4443	104.56	4583
Total Regional Hydro	19462	16106	10395	274.72	11673

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	6434	512	1194	13.15	548
Total Regional Renewable	6464	512	1194	13.26	553

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	
Vindhyhall(HVDC B/B)	-200	-450	0	450	0.00	9.39	-9.39
765 KV Gwalior-Agra (D/C)	2446	2878	2878	0	57.28	0.00	57.28
400 KV Zerda-Kankroli	56	184	18	34	1.32	0.00	1.32
400 KV Zerda-Bhinmal	81	219	230	35	2.53	0.00	2.53
220 KV Auraiya-Malanpur	-16	-5	0	62	0.00	0.66	-0.66
220 KV Badod-Kota/Morak	54	95	104	12	4.91	0.00	4.91
Mundra-Mohindergarh(HVDC Bipole)	1999	1802	2141	0.00	45.85	0.00	45.85
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	749	1479	1479	0	24.01	0.00	24.01
Sub Total WR	5169	6202			135.89	10.05	125.84
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	119	404	428	0	7.66	0.00	7.66
400 KV B Sharif-Balia (D/C)	5	221	225	0	3.66	0.00	3.66
765 KV Gaya-Balia	169	387	387	0	2.97	0.00	2.97
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	-36	-36	0	36	0.00	0.66	-0.66
132 KV Son Ngr-Rihand	-17	-36	0	40	0.00	0.69	-0.69
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	251	1156			45.62	1.35	44.27
+/- 800 KV BiswanathChariali-Agra	671	669	700	0.00	15.80	0.00	15.80
Sub Total NER	671	669			15.80	0.00	15.80
Total IR Exch	6091	8027			197.31	11.40	185.91

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
44.96	3.71	48.67	18.59	4.03	1.12	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
68.38	117.83	186.20	60.07	125.84	185.91	-8.30	8.01	-0.29

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	15	0	25	0	0	-0.39

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	1.79	45.73	78.69	17.07	2.53	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						
50.16	18.03	49.85	13.36	50.00	0.026	0.051	50.17	50.02	21.31

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	407	7:02	402	9:15	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	7:05	399	0:21	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	7:01	401	13:35	0.0	0.0	0.0	0.0	0.0
Kanpur	400	415	7:05	402	18:52	0.0	0.0	0.0	0.0	0.0
Dadri	400	415	6:01	399	18:53	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	422	7:02	403	18:55	0.0	0.0	6.7	0.0	6.7
Bawana	400	420	6:04	401	18:53	0.0	0.0	0.0	0.0	0.0
Bassi	400	421	4:01	400	18:51	0.0	0.0	0.1	0.0	0.1
Hissar	400	415	7:03	397	18:52	0.0	0.0	0.0	0.0	0.0
Moga	400	419	4:02	402	19:12	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	425	6:04	404	18:49	0.0	0.0	25.2	0.0	25.2
Nalagarh	400	425	6:07	407	18:59	0.0	0.0	29.6	0.0	29.6
Kishenpur	400	421	3:46	402	19:10	0.0	0.0	0.8	0.0	0.8
Wagoora	400	417	4:01	377	19:23	1.6	35.5	0.0	0.0	1.6
Amritsar	400	424	3:17	406	18:46	0.0	0.0	25.4	0.0	25.4
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	421	5:01	415	0:00	0.0	0.0	1.3	0.0	1.3
Rishikesh	400	409	18:00	396	19:11	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	778	7:48	750	18:49	0.0	0.0	0.0	0.0	0.0
Balia	765	788	7:34	758	0:28	0.0	0.0	0.0	0.0	0.0
Moga	765	803	4:02	773	18:53	0.0	0.0	8.6	0.0	8.6
Agra	765	791	8:02	762	18:53	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	801	7:02	773	18:47	0.0	0.0	2.0	0.0	2.0
Unnao	765	767	7:46	744	0:28	0.0	0.0	0.0	0.0	0.0
Lucknow	765	791	7:01	762	0:20	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	8:02	775	18:49	0.0	0.0	8.3	0.0	8.3
Jhatikara	765	799	8:04	767	18:53	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	795	7:01	768	0:26	0.0	0.0	0.0	0.0	0.0
Anta	765	793	3:58	772	18:55	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	4:05	760	13:44	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	511.41	1620.46	657.04	611.47
Pong	426.72	384.05	417.15	768.49	421.09	940.20	241.37	390.18
Tehri	829.79	740.04	824.70	1107.95	822.65	1065.64	184.73	242.00
Koteshwar	612.50	598.50	610.02	4.56	610.27	4.69	242.00	255.63
Chamera-I	760.00	748.75	754.70	0.00	0.00	0.00	133.02	111.91
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	519.27	5.60	512.99	2.28	114.87	293.42

* 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	961	0	0	397	64	0	14.70	0.27	14.96
Delhi	699	-698	0	399	-109	0	13.91	-6.47	7.45
Haryana	1801	143	0	947	271	0	27.70	-1.93	25.76
HP	-690	-308	0	-385	-907	0	-12.57	-10.52	-23.10
J&K	-578	-65	0	-573	-15	0	-14.51	0.93	-13.58
CHD	0	0	0	0	30	0	0.35	-0.10	0.25
Rajasthan	-154	601	0	-154	449	0	-3.70	16.65	12.95
UP	734	1166	0	370	-75	0	9.76	7.86	17.61
Uttarakhand	-191	3	0	-242	115	0	-4.83	3.44	-1.39
Total	2581	842	0	758	-177	0	30.79	10.12	40.92

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1099	159	75	0	0	0
Delhi	793	361	174	-778	0	0
Haryana	2007	779	278	-809	0	0
HP	-385	-741	-96	-907	0	0
J&K	-573	-674	233	-116	0	0
CHD	44	0	30	-35	0	0
Rajasthan	-154	-154	1242	409	0	0
UP	821	212	1198	-75	0	0
Uttarakhand	-191	-242	377	-31	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	7.29%
ER	0.00%
Simultaneous	0.00%

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

WR	28.47%
ER	0.00%
Simultaneous	6.94%

(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	14
Haryana	0
Rajasthan	52
Delhi	29
UP	12
Uttarakhand	12
HP	69
J & K	30
Chandigarh	21

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 23.09.2016 :

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :
400kV Muradnagar-Fatehabad line 1st time charged from Muradnagar end at 0133Hrs of 24.09.2016

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.