

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 25.11.2016

Date of Reporting : 26.11.2016



I. Regional Availability/Demand:

Evening Peak (19:00 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
39449	766	40216	50.05	28408	378	28786	50.06	805.96	16.71

* 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	37.44	8.13	1.26	46.83	47.67	48.14	0.47	94.96	0.00
Haryana	21.96	0.41	0.00	22.39	84.88	82.67	-2.22	105.06	0.00
Rajasthan	104.30	5.10	12.63	122.03	75.94	78.47	2.53	200.51	5.01
Delhi	15.53		0.00	15.53	41.70	42.00	0.30	57.53	0.01
UP	142.91	7.72	0.00	150.63	95.71	97.41	1.70	248.04	2.14
Uttarakhand		7.30	0.00	14.24	17.43	17.78	0.35	32.02	0.00
HP		5.48	1.77	7.24	18.63	19.13	0.50	26.37	0.00
J & K		5.44	0.00	5.44	34.98	32.74	-2.24	38.18	9.55
Chandigarh				0.00	3.18	3.29	0.11	3.29	0.00
Total	322.16	39.58	15.66	384.34	420.11	421.62	1.51	805.96	16.71

* 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 (19:00 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	5031	0	0	-456	2977	0	-16	-455	5031	19:00	0
Haryana	5894	0	-145	38	2991	0	29	-256	5894	19:00	0
Rajasthan	8962	306	135	538	7769	0	136	754	9989	7:00	0
Delhi	2942	0	27	-405	1463	0	36	-617	3100	11:00	0
UP	11754	0	99	262	9772	0	-75	130	12171	7:00	0
Uttarakhand	1621	0	-171	263	1100	0	-16	216	1779	18:00	0
HP	1232	0	26	127	738	0	1	395	1362	8:00	0
J&K	1841	460	-66	332	1513	378	-163	355	1841	19:00	460
Chandigarh	173	0	-25	-30	84	0	-3	-30	179	8:00	0
Total	39449	766	-120	670	28408	378	-69	492	39449	19:00	766

* 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 :

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	1842	2004	1809	43.55	1814	43.57	-0.03
Rihand I STPS (2*500)	1000	711	460	677	15.21	634	15.55	-0.34
Rihand II STPS (2*500)	1000	948	965	744	21.79	908	21.65	0.14
Rihand III STPS (2*500)	1000	948	927	1020	21.44	893	21.30	0.14
Dadri I STPS (4*210)	840	815	178	186	4.34	181	4.61	-0.28
Dadri II STPS (2*490)	980	949	445	464	10.43	435	11.22	-0.79
Unchahar I TPS (2*210)	420	360	280	293	7.29	304	8.19	-0.89
Unchahar II TPS (2*210)	420	404	360	280	7.76	323	8.68	-0.92
Unchahar III TPS (1*210)	210	202	143	134	3.79	158	4.27	-0.49
ISTPP (Jhajjar) (3*500)	1500	1440	760	600	16.65	694	17.00	-0.35
Dadri GPS (4*130.19+2*154.51)	830	805	243	313	8.11	338	8.86	-0.75
Anta GPS (3*88.71+1*153.2)	419	409	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	624	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	0.05	2	0.04	0.00
Singrauli Solar(15)	15	2	0	0	0.06	2	0.06	0.00
KHEP(4*200)	800	865	855	0	2.91	121	2.60	0.31
Sub Total (A)	12112	11327	7620	6520	163	6808	168	-4.25
B. NPC								
NAPS (2*220)	440	404	404	404	9.70	404	9.70	0.00
RAPS- B (2*220)	440	380	426	424	9.15	381	9.12	0.03
RAPS- C (2*220)	440	220	235	239	5.01	209	5.28	-0.27
Sub Total (B)	1320	1004	1065	1067	23.85	1094	24.10	-0.24
C. NHPC								
Chamera I HPS (3*180)	540	540	0	0	2.01	84	1.80	0.21
Chamera II HPS (3*100)	300	213	206	0	1.40	58	1.29	0.11
Chamera III HPS (3*77)	231	231	176	0	0.76	31	0.70	0.06
Bairasuli HPS(3*60)	180	120	123	0	0.53	22	0.50	0.03
Salal-HPS (6*115)	690	114	302	120	3.13	130	2.75	0.38
Tanakpur-HPS (3*31.4)	94	27	20	53	0.76	32	0.65	0.11
Uri-I HPS (4*120)	480	80	210	29	2.02	84	1.91	0.11
Uri-II HPS (4*60)	240	55	54	79	1.36	57	1.31	0.05
Dhauliganga-HPS (4*70)	280	210	212	0	1.24	52	1.16	0.08
Dulhasti-HPS (3*130)	390	383	376	0	3.43	143	3.20	0.23
Sewa-II HPS (3*40)	120	80	82	0	0.24	10	0.25	-0.01
Parbati 3 (4*130)	520	130	134	0	0.41	17	0.39	0.02
Sub Total (C)	4065	2182	1896	280	17	720	16	1.38
D.SJVNL								
NJPC (6*250)	1500	1610	1602	0	8.66	361	8.67	-0.01
Rampur HEP (6*68.67)	412	442	440	0	2.43	101	2.41	0.02
Sub Total (D)	1912	2052	2042	0	11.09	462	11.08	0.00
E. THDC								
Tehri HPS (4*250)	1000	1075	1075	0	6.96	290	6.80	0.16
Koteshwar HPS (4*100)	400	98	181	90	2.37	99	2.36	0.01
Sub Total (E)	1400	1173	1256	90	9.33	389	9.16	0.17
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	552	1018	390	13.40	558	13.24	0.16
Dehar HPS (6*165)	990	120	495	0	2.91	121	2.89	0.03
Pong HPS (6*66)	396	155	330	66	3.74	156	3.73	0.01
Sub Total (F)	2765	827	1843	456	20.06	836	19.85	0.20
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	87	0	0.67	28	0.67	0.00
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	4.48	187	4.39	0.10
Malana Stg-II HPS (2*50)	100	0	0	0	0.25	10	0.24	0.02
Shree Cement TPS (2*150)	300	0	-1	-1	-0.05	-2	0.00	-0.05
Budhil HPS(IPP) (2*35)	70	0	0	0	0.22	9	0.23	0.00
Sub Total (G)	1662	0	716	-1	5.58	232	5.52	0.06
H. Total Regional Entities (A-G)	25237	18565	16437	8412	250.56	10440	253.24	-2.68

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	0	0	-0.11	-5	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.06	-3	
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1	
	Rajpura (2*700)	1400	660	510	15.00	625	
	Talwandi Saboo (3*660)	1980	1127	616	22.66	944	
	Thermal (Total)	6560	1787	1126	37.44	1560	
	Total Hydro	1000	352	337	8.13	339	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	0	0	1.05	44	
	Solar	560	0	0	0.21	9	
	Renewable(Total)	848	0	0	1.26	52	
	Total Punjab	8408	2139	1463	46.83	1951	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	556	466	11.91	496
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	0	0	0.00	0	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	556	369	10.08	420	
Thermal (Total)		4497	1112	835	21.98	916	
Total Hydro		62	9	10	0.41	17	
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	1121	845	22.39	933	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1155	953	25.80	1075
		suratgarh TPS (6*250)	1500	336	410	7.40	308
	Chabra TPS (4*250)	1000	913	748	20.80	867	
	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	152	154	3.90	163	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	112	113	2.60	108	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	837	568	17.60	733	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	683	802	16.50	688	
	Kawai(Adani) (2*660)	1320	408	407	9.70	404	
	Thermal (Total)	8876	4596	4155	104.30	4346	
	Total Hydro	550	216	208	5.10	213	
	Wind power	4017	352	695	9.80	408	
	Biomass	99	15	15	0.36	15	
	Solar	1295	3	0	2.47	103	
	Renewable/Others (Total)	5411	370	710	12.63	526	
	Total Rajasthan	14837	5182	5073	122.03	5085	
	UP	Anpara TPS (3*210+2*500)	1630	565	603	14.20	592
Obra TPS (2*50+2*94+5*200)		1194	286	284	6.70	279	
Paricha TPS (2*110+2*220+2*250)		1160	811	580	17.90	746	
Panki TPS (2*105)		210	68	63	1.50	63	
Harduaganj TPS (1*60+1*105+2*250)		665	427	322	9.80	408	
Tanda TPS (NTPC) (4*110)		440	188	192	4.52	188	
Roza TPS (IPP) (4*300)		1200	824	810	19.66	819	
Anpara-C (IPP) (2*600)		1200	819	990	21.68	903	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	286	8.76	365	
Anpara-D(2*500)		1000	445	460	10.70	446	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	491	500	10.69	446	
Thermal (Total)		12449	5329	5090	126.11	5254	
Vishnuparyag HPS (IPP)(4*110)		440	107	97	2.47	103	
Alaknada(4*82.5)		330	76	0	1.55	65	
Other Hydro		527	232	68	3.70	154	
Cogeneration		981	700	700	16.80	700	
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	6444	5955	150.63	6276	
Uttarakhand		Other Hydro	1250	599	192	7.30	304
		Total Gas	225	283	292	6.89	287
		Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0	
	Solar	20	0	0	0.05	2	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	327	0	0	0.05	2	
	Total Uttarakhand	1802	882	484	14.24	593	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	77	77	1.86	77	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	266	6.44	268	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	280	6.15	256	
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	1.10	46	
	Thermal (Total)	2917	588	619	15.53	647	
	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	588	619	15.53	647		

HP	Baspa HPS (IPP) (3*100)	300	29	0	1.36	57
	Malana HPS (IPP) (2*43)	86	41	0	0.28	12
	Other Hydro	372	178	125	3.84	160
	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)	486	81	66	1.77	74
	Renewable(Total)	486	81	66	1.77	74
	Total HP	1244	329	191	7.24	302
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	200	88	2.67
Other Hydro/IPP(including 98 MW Small Hydro)		308	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)Included in Other Hydro Above		98	0	0	0.00	0
Renewable(Total)		98	0	0	0.00	0
Total J & K		1398	338	181	5	227
Total State Control Area Generation		50078	17024	14812	384.34	16014
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7968	7812	194.40	8100	
Total Regional Availability(Gross)	75315	41429	31035	829.29	34554	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8608	826	66.06	2752
State Control Area Hydro	7163	2541	1576	41.35	2012
Total Regional Hydro	19397	11149	2402	107.41	4764

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	7356	451	776	15.71	655
Total Regional Renewable	7386	451	776	15.83	660

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhyachal(HVDC B/B)	100	100	100	500	0.61	7.83	-7.22
765 KV Gwalior-Agra (D/C)	1842	1675	2790	0	54.16	0.00	54.16
400 KV Zerda-Kankroli	-129	-133	81	133	0.00	0.98	-0.98
400 KV Zerda-Bhinmal	61	65	214	93	0.92	0.00	0.92
220 KV Auraiya-Malanpur	-58	-100	0	105	0.00	1.60	-1.60
220 KV Badod-Kota/Morak	-36	-57	0	130	1.19	1.19	0.00
Mundra-Mohindergarh(HVDC Bipole)	1998	2002	2005	0.00	41.36	0.00	41.36
400 KV RAPP- Sujalpur	413	259	425	0	3.79	0.00	3.79
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1277	1189	1789	0	34.96	0.00	34.96
Sub Total WR	5468	5000			136.99	11.60	125.39
400 kV Sasaram - Varanasi	141	132	148	0	4.97	0.00	4.97
400 kV Sasaram - Allahabad	0	18	21	0	0.18	0.00	0.18
400 KV MZP- GKP (D/C)	147	26	344	0	3.12	0.00	3.12
400 KV Patna-Balia(D/C) X 2	507	693	872	0	14.68	0.00	14.68
400 KV B'Sharif-Balia (D/C)	177	67	268	0	3.57	0.00	3.57
765 KV Gaya-Balia	299	252	410	0	7.75	0.00	7.75
765 KV Gaya-Varanasi (D/C)	356	448	787	0	14.22	0.00	14.22
220 KV Pusauli-Sahupuri	197	157	255	0	4.45	0.00	4.45
132 KV K'nasa-Sahupuri	-22	-20	0	34	0.00	0.47	-0.47
132 KV Son Ngr-Rihand	-30	-30	0	40	0.00	0.98	-0.98
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-114	-133	14	178	0.00	1.99	-1.99
400 KV Barh -GKP (D/C)	310	494	608	0	10.51	0.00	10.51
400 kV B'Sharif - Varanasi (D/C)	32	8	111	58	0.80	0.00	0.80
Sub Total ER	2000	2112			64.24	3.44	60.80
+/- 800 KV BiswanathCharialli-Agra	500	700	700	500.00	8.20	0.00	8.20
Sub Total NER	500	700			8.20	0.00	8.20
Total IR Exch	7968	7812			209.43	15.03	194.40

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
51.54	1.28	52.82	-0.87	-9.44	17.33	15.25	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
69.29	118.05	187.34	69.00	125.39	194.40	-0.29	7.35	7.06

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29	-28	0	31	0	1	-0.64

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	0.24	8.03	49.09	68.75	17.34	5.45	0.49	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						
50.24	6.03	49.77	16.45	50.00	0.049	0.070	0.00	0.00	31.25

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	411	0:00	402	8:17	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	4:01	403	17:39	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	424	2:01	400	12:18	0.0	0.0	15.7	0.0	15.7
Kanpur	400	420	2:01	400	12:18	0.0	0.0	0.0	0.0	0.0
Dadri	400	430	2:01	401	12:10	0.0	0.0	26.5	0.0	26.5
Ballabgarh	400	434	2:02	403	12:18	0.0	0.0	41.0	16.5	41.0
Bawana	400	431	1:00	403	12:12	0.0	0.0	38.6	1.8	38.6
Bassi	400	424	19:43	396	6:15	0.0	0.0	7.1	0.0	7.1
Hissar	400	424	2:02	394	12:19	0.0	0.0	18.5	0.0	18.5
Moga	400	424	0:59	399	12:13	0.0	0.0	22.3	0.0	22.3
Abdullapur	400	428	0:49	398	11:45	0.0	0.0	23.1	0.0	23.1
Nalagarh	400	434	0:52	401	12:19	0.0	0.0	38.5	18.8	38.5
Kishenpur	400	420	1:35	396	11:10	0.0	0.0	0.0	0.0	0.0
Wagoora	400	399	13:01	364	18:15	57.5	84.5	0.0	0.0	57.5
Amritsar	400	433	4:00	406	8:46	0.0	0.0	42.2	13.0	42.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	0:55	397	11:14	0.0	0.0	46.7	0.0	46.7
Rishikesh	400	422	2:01	393	12:18	0.0	0.0	2.5	0.0	2.5

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	776	2:01	745	12:18	0.0	0.0	0.0	0.0	0.0
Balia	765	793	2:00	765	17:40	0.0	0.0	0.0	0.0	0.0
Moga	765	806	21:28	758	12:11	0.0	0.0	5.7	0.0	5.7
Agra	765	792	19:43	753	22:08	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	811	1:59	763	12:12	0.0	0.0	25.9	0.0	25.9
Unnao	765	776	2:01	743	12:18	0.0	0.0	0.0	0.0	0.0
Lucknow	765	805	2:01	771	12:18	0.0	0.0	14.1	0.0	14.1
Meerut	765	810	20:57	761	12:18	0.0	0.0	6.7	0.0	6.7
Jhatikara	765	811	4:00	758	12:18	0.0	0.0	21.5	0.0	21.5
Bareilly 765 kV	765	799	2:00	757	12:18	0.0	0.0	0.0	0.0	0.0
Anta	765	800	21:01	718	14:47	2.5	2.5	0.0	0.0	2.5
Phagi	765	802	3:59	764	11:56	0.0	0.0	5.8	0.0	5.8

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	495.83	937.45	507.02	1396.66	157.16	394.51
Pong	426.72	384.05	412.15	566.84	416.19	718.14	60.68	237.66
Tehri	829.79	740.04	818.50	972.26	813.00	862.27	42.46	154.00
Koteswar	612.50	598.50	609.76	4.44	610.54	4.87	154.00	157.02
Chamera-I	760.00	748.75	759.52	0.00	0.00	0.00	51.69	54.32
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	510.14	2.91	506.57	0.44	51.86	123.49

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-456	1	0	-456	0	0	-13.56	0.52	-13.05
Delhi	-241	-376	0	-364	-41	0	-9.15	-2.78	-11.93
Haryana	-603	347	0	-311	349	0	-10.06	8.15	-1.91
HP	292	103	0	198	-71	0	8.03	-0.77	7.25
J&K	355	0	0	332	0	0	8.92	-0.13	8.78
CHD	-30	0	0	-30	0	0	-0.36	0.00	-0.36
Rajasthan	-7	761	0	-7	546	0	6.70	22.58	29.27
UP	130	0	0	-44	306	0	-6.59	4.79	-1.81
Uttarakhand	146	70	0	146	117	0	3.71	2.23	5.94
Total	-414	905	0	-535	1205	0	-12.38	34.57	22.19

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-456	-719	246	-299	0	0
Delhi	-203	-568	211	-470	0	0
Haryana	-83	-633	386	-56	0	0
HP	469	198	103	-586	0	0
J&K	462	306	0	-15	0	0
CHD	0	-30	0	0	0	0
Rajasthan	659	-7	2169	524	0	0
UP	165	-829	388	-44	0	0
Uttarakhand	182	146	187	-55	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	0.00%
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%
-----------------------	--------------

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	24
Haryana	2	15
Rajasthan	0	12
Delhi	2	30
UP	1	15
Uttarakhand	5	45
HP	2	36
J & K	5	47
Chandigarh	4	41

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 25.11.2016 :**
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.