

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 18.11.2016

Date of Reporting : 19.11.2016



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
38521	1103	39624	50.10	28127	700	28827	0.00	800.07	20.88

* 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	35.64	7.77	1.31	44.72	44.16	44.38	0.22	89.10	0.00
Haryana	26.24	0.42	0.00	26.66	79.67	78.49	-1.18	105.15	0.00
Rajasthan	107.72	4.53	5.39	117.63	74.54	76.95	2.42	194.59	10.22
Delhi	14.42		0.00	14.42	40.20	41.47	1.26	55.89	0.00
UP	157.44	8.40	0.00	165.84	89.95	92.01	2.07	257.85	2.40
Uttarakhand		8.12	0.00	10.60	20.93	21.76	0.83	32.36	0.00
HP		4.04	1.82	5.86	18.54	18.70	0.16	24.57	0.03
J & K		5.56	0.00	5.56	34.45	31.81	-2.64	37.37	8.23
Chandigarh				0.00	3.21	3.20	-0.01	3.20	0.00
Total	341.46	38.84	8.52	391.29	405.66	408.78	3.12	800.07	20.88

* 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	4745	0	-103	-451	2712	0	183	-451	4745	19:00	0
Haryana	5952	0	-3	34	2987	0	-27	-230	5952	19:00	0
Rajasthan	8452	689	159	494	7806	0	122	693	8982	8:00	740
Delhi	2928	0	94	-376	1435	0	89	-642	3055	11:00	0
UP	11722	0	-345	149	9723	320	-28	130	12422	8:00	100
Uttarakhand	1642	0	-271	290	1096	0	115	392	1711	8:00	0
HP	1250	0	45	131	767	0	-6	380	1360	8:00	0
J&K	1655	414	-267	336	1520	380	-4	351	1785	7:00	446
Chandigarh	175	0	-19	-30	82	0	7	-30	175	8:00	0
Total	38521	1103	-709	575	28127	700	450	594	38521	19:00	1103

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

Diversity is 1.04

UI [OG:(+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	1839	1987	1952	44.18	1841	43.71	0.47
	Rihand I STPS (2*500)	1000	930	875	707	18.44	768	18.11	0.33
	Rihand II STPS (2*500)	1000	963	919	754	19.10	796	18.78	0.31
	Rihand III STPS (2*500)	1000	963	1008	756	19.60	816	19.43	0.17
	Dadri I STPS (4*210)	840	815	158	135	4.08	170	4.23	-0.15
	Dadri II STPS (2*490)	980	980	403	344	9.56	398	10.47	-0.91
	Unchahar I TPS (2*210)	420	355	377	257	7.06	294	7.46	-0.40
	Unchahar II TPS (2*210)	420	402	325	285	7.37	307	8.04	-0.67
	Unchahar III TPS (1*210)	210	201	213	148	3.84	160	4.09	-0.25
	ISTPP (Jhajjar) (3*500)	1500	1425	773	607	17.18	716	17.52	-0.34
	Dadri GPS (4*130.19+2*154.51)	830	736	321	167	6.56	273	7.20	-0.64
	Anta GPS (3*88.71+1*153.2)	419	407	-2	246	3.51	146	3.53	-0.02
	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	0.01	1	0.02	0.00
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar(15)	15	2	0	0	0.06	2	0.05	0.01
	KHEP(4*200)	800	638	568	0	3.58	149	3.30	0.28
	Sub Total (A)	12112	11281	7925	6358	164	6841	166	-1.80
	B. NPC	NAPS (2*220)	440	406	443	447	9.82	409	9.74
RAPS- B (2*220)		440	383	424	427	9.20	383	9.19	0.01
RAPS- C (2*220)		440	225	234	235	4.95	206	5.40	-0.45
Sub Total (B)		1320	1014	1101	1109	23.97	999	24.34	-0.37
C. NHPC	Chamera I HPS (3*180)	540	540	361	0	2.03	85	1.80	0.23
	Chamera II HPS (3*100)	300	201	162	0	1.54	64	1.45	0.09
	Chamera III HPS (3*77)	231	231	150	0	0.76	32	0.70	0.06
	Bairasuli HPS(3*60)	180	120	122	0	0.55	23	0.51	0.04
	Salal-HPS (6*115)	690	115	300	30	3.30	137	2.76	0.54
	Tanakpur-HPS (3*31.4)	94	33	29	32	0.90	38	0.80	0.10
	Uri-I HPS (4*120)	480	77	228	34	2.08	87	1.84	0.24
	Uri-II HPS (4*60)	240	53	78	40	1.34	56	1.28	0.06
	Dhauliganga-HPS (4*70)	280	210	211	0	1.25	52	1.16	0.09
	Dulhasi-HPS (3*130)	390	383	395	0	3.99	166	3.80	0.19
	Sewa-II HPS (3*40)	120	80	74	0	0.24	10	0.25	-0.01
	Parbati 3 (4*130)	520	200	212	0	0.60	25	0.57	0.03
	Sub Total (C)	4065	2242	2322	136	19	774	17	1.67
	D.SJVNL	NJPC (6*250)	1500	1605	1543	0	8.12	338	8.05
Rampur HEP (6*68.67)		412	442	446	0	2.30	96	2.24	0.06
Sub Total (D)		1912	2047	1989	0	10.43	434	10.29	0.14
E. THDC	Tehri HPS (4*250)	1000	1075	1061	0	6.16	257	6.00	0.16
	Koteshwar HPS (4*100)	400	91	101	91	2.22	92	2.19	0.03
	Sub Total (E)	1400	1166	1162	91	8.37	349	8.19	0.18
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	494	932	386	11.91	496	11.85	0.06
	Dehar HPS (6*165)	990	165	330	145	4.02	167	3.96	0.06
	Pong HPS (6*66)	396	159	264	66	3.82	159	3.81	0.01
	Sub Total (F)	2765	817	1526	597	19.75	823	19.62	0.13
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	66	0	0.58	24	0.55	0.03
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	4.38	183	4.27	0.12
	Malana Stg-II HPS (2*50)	100	0	0	0	0.31	13	0.29	0.02
	Shree Cement TPS (2*150)	300	0	-1	0	-0.04	-2	0.00	-0.04
	Budhil HPS(IPP) (2*35)	70	0	37	0	0.23	9	0.23	0.00
	Sub Total (G)	1662	0	928	0	5.46	228	5.33	0.13
H. Total Regional Entities (A-G)	25237	18568	16953	8291	250.74	10447	250.65	0.08	

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	-0.12	-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	-0.08	-3
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	1320	660	25.44	1060
	Talwandi Saboo (3*660)	1980	364	308	10.44	435
	Thermal (Total)	6560	1684	968	35.64	1485
	Total Hydro	1000	322	324	7.77	324
	Wind Power	0	0	0	0.00	0
	Biomass	288	45	45	1.09	45
	Solar	560	0	0	0.22	9
	Renewable(Total)	848	45	45	1.31	54
	Total Punjab	8408	2051	1337	44.72	1863
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	554	450	11.34	473
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	738	14.90	621
Thermal (Total)		4497	1110	1188	26.24	1093
Total Hydro		62	9	10	0.42	18
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	1119	1198	26.66	1111
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	941	729	20.13
	suratgarh TPS (6*250)	1500	664	682	15.13	630
	Chabra TPS (4*250)	1000	674	902	17.37	724
	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	162	164	3.94	164
	RAPS A (NPC) (1*100+1*200)	300	164	168	4.22	176
	Barsingar (NLC) (2*125)	250	113	113	2.51	105
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	834	820	19.75	823
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	550	510	13.32	555
	Kawai(Adani) (2*660)	1320	603	405	11.35	473
	Thermal (Total)	8876	4705	4493	107.72	4488
	Total Hydro	550	169	172	4.53	189
	Wind power	4017	54	59	2.51	105
	Biomass	99	20	20	0.48	20
	Solar	1295	9	0	2.40	100
	Renewable/Others (Total)	5411	83	79	5.39	224
Total Rajasthan	14837	4957	4744	117.63	4901	
UP	Anpara TPS (3*210+2*500)	1630	741	721	17.46	728
	Obra TPS (2*50+2*94+5*200)	1194	280	284	6.93	289
	Paricha TPS (2*110+2*220+2*250)	1160	818	574	16.88	703
	Panki TPS (2*105)	210	140	135	3.13	130
	Harduaganj TPS (1*60+1*105+2*250)	665	437	311	9.07	378
	Tanda TPS (NTPC) (4*110)	440	583	205	6.32	264
	Roza TPS (IPP) (4*300)	1200	828	567	17.77	740
	Anpara-C (IPP) (2*600)	1200	1062	981	23.92	997
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	404	282	7.98	332
	Anpara-D(2*500)	1000	461	462	10.85	452
	Lalitpur TPS(3*660)	1980	0	362	13.88	578
	Bara(2*660)	1320	594	576	8.86	369
	Thermal (Total)	12449	6348	5460	143.04	5960
	Vishnuparyag HPS (IPP)(4*110)	440	112	112	2.67	111
	Alaknada(4*82.5)	330	80	75	1.64	68
	Other Hydro	527	201	93	4.10	171
	Cogeneration	981	600	600	14.40	600
	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	7341	6340	165.84	6910	
Uttarakhand	Other Hydro	1250	614	167	8.12	338
	Total Gas	225	96	75	2.43	101
	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	710	242	10.60	442
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	79	78	1.93	80
	Pragati Gas Turbine (2x104+ 1x122)	330	265	267	6.48	270
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	594	625	14.42	601
	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	594	625	14.42	601	

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.35	56
	Malana HPS (IPP) (2*43)	86	44	0	0.33	14
	Other Hydro	372	119	52	2.36	98
	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	84	72	1.82	76
	Renewable(Total)	486	84	72	1.82	76
	Total HP	1244	247	124	5.86	244
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	174	101	2.79
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	312	194	6	232
Total State Control Area Generation		50078	17332	14805	391.29	16304
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5345	5434	184.24	7677	
Total Regional Availability(Gross)	75315	39630	28529	826.26	34428	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8459	824	65.99	2749
State Control Area Hydro	7163	2162	1346	40.66	1797
Total Regional Hydro	19397	10621	2170	106.65	4547

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	7356	212	196	8.56	357
Total Regional Renewable	7386	212	196	8.67	361

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	
Vindhyhall(HVDC B/B)	-500	-500	0	500	0.00	12.14	-12.14
765 KV Gwalior-Agra (D/C)	1897	1514	2204	0	46.99	0.00	46.99
400 KV Zerda-Kankroli	-96	-120	11	152	0.00	2.08	-2.08
400 KV Zerda-Bhinmal	-14	-17	146	151	0.17	0.00	0.17
220 KV Auraiya-Malanpur	-90	-109	0	138	0.00	1.07	-1.07
220 KV Badod-Kota/Morak	-29	-58	94	75	0.00	0.69	-0.69
Mundra-Mohindergarh(HVDC Bipole)	1697	1698	1705	0.00	40.27	0.00	40.27
400 KV RAPP- Sujalpur	300	320	469	0	8.18	0.00	8.18
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1260	1233	1804	0	36.64	0.00	36.64
Sub Total WR	4425	3961			132.23	15.98	116.25
400 kV Sasaram - Varanasi	-161	-156	168	0	2.67	0.00	2.67
400 kV Sasaram - Allahabad	19	10	20	25	0.00	0.10	-0.10
400 KV MZP- GKP (D/C)	-172	225	350	172	3.35	0.00	3.35
400 KV Patna-Balia(D/C) X 2	534	595	794	0	14.57	0.00	14.57
400 KV B'Sharif-Balia (D/C)	-65	85	180	65	1.96	0.00	1.96
765 KV Gaya-Balia	172	252	336	0	6.50	0.00	6.50
765 KV Gaya-Varanasi (D/C)	-305	-418	679	0	11.96	0.00	11.96
220 KV Pusauli-Sahupuri	-186	-138	186	0	3.57	0.00	3.57
132 KV K'nasa-Sahupuri	-20	-20	0	28	0.00	0.46	-0.46
132 KV Son Ngr-Rihand	-20	-36	0	44	0.00	0.89	-0.89
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-145	-111	88	238	0.00	1.52	-1.52
400 KV Barh -GKP (D/C)	470	480	540	0	10.69	0.00	10.69
400 kV B'Sharif - Varanasi (D/C)	123	27	152	428	0.00	0.34	-0.34
Sub Total ER	244	795			55.26	3.31	51.95
+/- 800 KV Biswanath Charialli-Agra	676	678	687	0.00	16.04	0.00	16.04
Sub Total NER	676	678			16.04	0.00	16.04
Total IR Exch	5345	5434			203.52	19.29	184.24

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
47.78	1.28	49.07	1.23	-7.73	11.86	11.94	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
62.15	111.21	173.36	67.98	116.25	184.24	5.83	5.04	10.87

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	0	0	0	31	0	0	-0.17

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	0.27	10.38	57.20	73.02	13.87	2.69	0.08	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	21.58	49.78	6.43	49.99	0.044	0.065	0.00	0.00	26.98

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	12:52	402	5:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	13:02	403	17:56	0.0	0.0	4.3	0.0	4.3
Bareilly(PG)400kV	400	421	0:04	395	10:49	0.0	0.0	1.7	0.0	1.7
Kanpur	400	419	0:45	398	10:49	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	1:58	125	10:52	2.6	2.6	25.4	0.0	28.0
Ballabgarh	400	432	0:49	404	11:21	0.0	0.0	46.6	12.7	46.6
Bawana	400	429	1:58	409	11:21	0.0	0.0	42.3	0.0	42.3
Bassi	400	425	19:42	378	10:50	0.0	0.1	5.8	0.0	5.8
Hissar	400	423	1:58	403	6:25	0.0	0.0	13.4	0.0	13.4
Moga	400	426	0:04	407	11:20	0.0	0.0	28.1	0.0	28.1
Abdullapur	400	427	21:58	408	5:47	0.0	0.0	36.3	0.0	36.3
Nalagarh	400	436	2:02	412	6:55	0.0	0.0	53.5	25.7	53.5
Kishenpur	400	423	0:05	398	6:50	0.0	0.0	12.8	0.0	12.8
Wagoora	400	408	13:04	370	18:10	15.9	64.8	0.0	0.0	15.9
Amritsar	400	434	1:57	411	11:21	0.0	0.0	48.1	18.2	48.1
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	23:21	407	11:20	0.0	0.0	24.0	0.0	24.0
Rishikesh	400	418	0:03	396	6:30	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	0:50	736	10:49	0.0	0.0	0.0	0.0	0.0
Balia	765	792	0:40	766	6:29	0.0	0.0	0.0	0.0	0.0
Moga	765	808	0:03	773	11:41	0.0	0.0	18.2	0.0	18.2
Agra	765	793	19:42	753	6:28	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	1:59	773	11:21	0.0	0.0	28.5	0.0	28.5
Unnao	765	773	0:48	743	10:54	0.0	0.0	0.0	0.0	0.0
Lucknow	765	803	0:50	772	10:54	0.0	0.0	2.2	0.0	2.2
Meerut	765	810	20:02	758	6:38	0.0	0.0	5.5	0.0	5.5
Jhatikara	765	808	1:58	770	11:10	0.0	0.0	21.0	0.0	21.0
Bareilly 765 kV	765	796	0:50	759	10:56	0.0	0.0	0.0	0.0	0.0
Anta	765	803	1:58	769	9:43	0.0	0.0	11.0	0.0	11.0
Phagi	765	805	20:03	710	10:52	0.1	0.1	1.3	0.0	1.4

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	496.79	971.87	507.79	1440.82	200.79	351.44
Pong	426.72	384.05	412.72	588.94	417.00	755.83	59.69	243.47
Tehri	829.79	740.04	819.85	999.26	814.30	882.26	44.39	136.00
Koteswar	612.50	598.50	610.48	4.80	610.94	5.00	136.00	146.23
Chamera-I	760.00	748.75	759.64	0.00	0.00	0.00	57.48	54.84
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	511.05	2.87	507.34	4.68	61.78	125.99

* 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	-451	1	0	-451	0	0	-13.46	-0.03	-13.49
Delhi	-108	-534	0	-231	-145	0	-6.35	-3.37	-9.71
Haryana	-594	364	0	-315	349	0	-9.97	7.64	-2.33
HP	292	88	0	199	-68	0	7.74	-0.81	6.93
J&K	351	0	0	336	0	0	7.82	-0.12	7.70
CHD	-30	0	0	-30	0	0	-0.36	-0.05	-0.42
Rajasthan	201	492	0	-7	501	0	8.36	15.27	23.63
UP	130	0	0	-43	191	0	-5.25	2.40	-2.86
Uttarakhand	146	245	0	178	111	0	3.71	4.88	8.59
Total	-63	657	0	-365	940	0	-7.77	25.81	18.04

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-451	-714	1	-140	0	0
Delhi	-108	-422	253	-546	0	0
Haryana	-302	-630	388	-231	0	0
HP	439	199	275	-656	0	0
J&K	351	299	0	-15	0	0
CHD	0	-30	0	0	0	-30
Rajasthan	659	-7	1429	480	0	0
UP	165	-638	774	-100	0	0
Uttarakhand	178	146	345	56	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	3.13%

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

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	4	27
Haryana	1	16
Rajasthan	2	22
Delhi	5	38
UP	0	10
Uttarakhand	2	19
HP	2	25
J & K	5	55
Chandigarh	3	21

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 18.11.2016 :**
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.