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 01.11.2016
Date of Reporting : 02.11.2016

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
40306	451	40758	50.10	30128	329	30456	50.00	798.5	10.05

* 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	37.45	9.05	0.13	46.63	49.23	49.90	0.67	96.52	0.00
Haryana	33.56	0.62	0.00	34.18	65.46	64.95	-0.50	99.14	0.00
Rajasthan	108.36	4.04	8.67	121.07	63.48	66.01	2.53	187.08	0.00
Delhi	9.10		0.00	9.10	51.03	51.80	0.76	60.90	0.01
UP	161.81	11.35	0.00	173.16	91.45	92.10	0.65	265.27	1.06
Uttarakhand		8.97	0.00	13.29	14.22	14.88	0.66	28.16	0.00
HP		7.78	2.57	10.36	12.45	12.11	-0.34	22.47	0.00
J & K		8.80	0.00	8.80	31.41	27.13	-4.28	35.94	8.98
Chandigarh				0.00	3.48	3.08	-0.40	3.08	0.00
Total	**350.27**	**50.63**	**11.37**	**416.58**	**382.20**	**381.96**	**-0.24**	**798.54**	10.05

* Shortage furnished by the respective constituent.$ 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	4618	0	-287	-335	2952	0	196	-343	4618	19:00	0
Haryana	5855	0	-300	-102	2993	0	-57	-399	5855	19:00	0
Rajasthan	7890	0	-12	355	7632	0	240	300	8646	9:00	0
Delhi	3012	0	-72	-207	2061	0	113	-423	3054	20:00	0
UP	14424	0	388	241	11565	0	86	93	14424	19:00	0
Uttarakhand	1489	0	-22	87	973	0	34	263	1531	18:00	0
HP	1040	0	40	-600	548	0	-7	100	1096	10:00	0
J&K	1806	451	-132	448	1315	329	-126	342	1806	19:00	451
Chandigarh	172	0	-17	-45	88	0	-3	-30	172	19:00	0
Total	**40306**	**451**	**-414**	**-157**	**30128**	**329**	**477**	**-98**	**40306**	**19:00**	**451**

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

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III. Regional Entities :

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

	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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1833	1893	1500	39.65	1652	39.42	0.23
	Rihand I STPS (2*500)	1000	943	923	746	19.34	806	19.20	0.14
	Rihand II STPS (2*500)	1000	958	958	722	19.64	818	19.28	0.36
	Rihand III STPS (2*500)	1000	958	1036	752	19.82	826	19.24	0.58
	Dadri I STPS (4*210)	840	815	352	314	7.26	303	7.43	-0.17
	Dadri II STPS (2*490)	980	980	694	655	16.05	669	16.71	-0.65
	Unchahar I TPS (2*210)	420	355	273	266	5.97	249	6.08	-0.11
	Unchahar II TPS (2*210)	420	402	308	304	6.49	270	6.77	-0.28
	Unchahar III TPS (1*210)	210	201	151	146	3.21	134	3.40	-0.18
	ISTPP (Jhajjhar) (3*500)	1500	1425	341	299	6.93	289	7.03	-0.09
	Dadri GPS (4*130.19+2*154.51)	830	789	374	364	7.33	305	7.63	-0.30
	Anta GPS (3*88.71+1*153.2)	419	388	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	0.01	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	0.05	2	0.05	0.00
	KHEP(4*200)	800	860	862	434	4.66	194	4.25	0.41
	Sub Total (A)	**12112**	**11536**	**8165**	**6502**	**156**	**6519**	**157**	**-0.08**
B. NPC	NAPS (2*220)	440	404	442	450	9.73	406	9.70	0.04
	RAPS- B (2*220)	440	387	427	433	9.29	387	9.29	0.00
	RAPS- C (2*220)	440	195	226	219	4.61	192	4.68	-0.07
	Sub Total (B)	**1320**	**986**	**1095**	**1102**	**23.64**	**985**	**23.66**	**-0.03**
C. NHPC	Chamera I HPS (3*180)	540	540	500	0	2.73	114	2.50	0.23
	Chamera II HPS (3*100)	300	301	310	0	1.63	68	1.50	0.13
	Chamera III HPS (3*77)	231	231	228	0	0.87	36	0.80	0.07
	Bairasuil HPS(3*60)	180	179	183	0	0.61	25	0.59	0.03
	Salal-HPS (6*115)	690	161	335	180	4.78	199	3.86	0.92
	Tanakpur-HPS (3*31.4)	94	41	50	49	1.17	49	0.99	0.18
	Uri-I HPS (4*120)	480	79	230	28	2.18	91	1.90	0.28
	Uri-II HPS (4*60)	240	55	41	77	1.40	58	1.33	0.06
	Dhauliganga-HPS (4*70)	280	280	283	0	1.51	63	1.42	0.09
	Dulhasti-HPS (3*130)	390	383	388	0	5.56	232	5.40	0.16
	Sewa-II HPS (3*40)	120	119	113	0	0.36	15	0.36	0.00
	Parbati 3 (4*130)	520	260	263	0	0.82	34	0.78	0.04
	Sub Total (C)	**4065**	**2629**	**2924**	**334**	**24**	**984**	**21**	**2.19**
D.SJVNL	NJPC (6*250)	1500	1605	1609	0	10.52	438	10.50	0.02
	Rampur HEP (6*68.67)	412	442	275	0	3.03	126	2.93	0.11
	Sub Total (D)	**1912**	**2047**	**1884**	**0**	**13.55**	**565**	**13.42**	**0.13**
E. THDC	Tehri HPS (4*250)	1000	1075	1055	0	7.77	324	7.46	0.31
	Koteshwar HPS (4*100)	400	91	102	90	2.20	92	2.19	0.01
	Sub Total (E)	**1400**	**1166**	**1157**	**90**	**9.97**	**415**	**9.65**	**0.32**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	534	1050	393	13.11	546	12.81	0.29
	Dehar HPS (6*165)	990	211	495	145	5.17	215	5.07	0.10
	Pong HPS (6*66)	396	234	330	198	5.61	234	5.62	-0.01
	Sub Total (F)	**2765**	**979**	**1875**	**736**	**23.88**	**995**	**23.51**	**0.38**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.00	0	0.72	-0.72
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	5.75	240	5.69	0.06
	Malana Stg-II HPS (2*50)	100	0	0	0	0.47	20	0.45	0.02
	Shree Cement TPS (2*150)	300	0	-1	-1	-0.04	-1	0.00	-0.04
	Budhil HPS(IPP) (2*35)	70	0	38	0	0.30	13	0.30	0.00
	Sub Total (G)	**1662**	**0**	**862**	**-1**	**6.49**	**271**	**7.16**	**-0.67**
H. Total Regional Entities (A-G)		**25237**	**19343**	**17961**	**8763**	**257.61**	**10734**	**255.37**	**2.23**

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	180	160	3.55	148
	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	205	191	4.48	187
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	720	660	22.01	917
	Talwandi Saboo (3*660)	1980	308	308	7.45	311
	Thermal (Total)	**6560**	**1413**	**1319**	37.45	**1560**
	Total Hydro	1000	365	336	9.05	377
	Wind Power	0	0	0	0.00	0
	Biomass	288	3	3	0.07	3
	Solar	560	2	2	0.06	2
	Renewable(Total)	**848**	**5**	**5**	**0.13**	**5**
	Total Punjab	**8408**	**1783**	**1660**	**46.63**	**1943**
Haryana	Panipat TPS (2*210+2*250)	920	208	200	4.89	204
	DCRTPP (Yamuna nagar) (2*300)	600	545	460	10.58	441
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	1009	737	18.09	754
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4497**	**1762**	**1397**	**33.56**	**1398**
	Total Hydro	62	12	35	0.62	26
	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**	**1774**	**1432**	**34.18**	**1424**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	985	974	24.69	1029
	suratgarh TPS (6*250)	1500	765	766	18.54	772
	Chabra TPS (4*250)	1000	602	747	17.11	713
	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	134	135	3.81	159
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	226	228	5.31	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	601	506	13.56	565
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	415	450	11.17	465
	Kawai(Adani) (2*660)	1320	610	604	14.17	590
	Thermal (Total)	**8876**	**4338**	**4410**	**108.36**	**4515**
	Total Hydro	550	190	148	4.04	169
	Wind power	4017	127	521	5.55	231
	Biomass	99	20	20	0.48	20
	Solar	1295	0	0	2.63	110
	Renewable/Others (Total)	5411	147	541	8.67	361
	Total Rajasthan	**14837**	**4675**	**5099**	**121.07**	**5044**
UP	Anpara TPS (3*210+2*500)	1630	1229	1230	28.45	1185
	Obra TPS (2*50+2*94+5*200)	1194	261	259	6.30	263
	Paricha TPS (2*110+2*220+2*250)	1160	663	663	15.80	658
	Panki TPS (2*105)	210	135	122	3.20	133
	Harduaganj TPS (1*60+1*105+2*250)	665	499	378	9.90	413
	Tanda TPS (NTPC) (4*110)	440	357	380	7.71	321
	Roza TPS (IPP) (4*300)	1200	1089	770	21.33	889
	Anpara-C (IPP) (2*600)	1200	1026	1004	20.88	870
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	282	283	6.57	274
	Anpara-D(2*500)	1000	879	886	20.66	861
	Lalitpur TPS(3*660)	1980	856	716	18.61	776
	Bara(2*660)	1320	535	533	0.00	0
	Thermal (Total)	**12449**	**7811**	**7224**	**159.41**	**6642**
	Vishnuparyag HPS (IPP)(4*110)	440	147	142	6.57	274
	Alaknanada(4*82.5)	330	75	84	3.20	133
	Other Hydro	527	50	50	1.59	66
	Cogeneration	981	100	100	2.40	100
	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**	**8183**	**7600**	**173.16**	**7215**
Uttarakhand	Other Hydro	1250	544	324	8.97	374
	Total Gas	225	180	174	4.26	177
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.06	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.06	2
	Total Uttarakhand	1802	724	498	13.29	554
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	77	77	1.86	78
	Pragati Gas Turbine (2x104+ 1x122)	330	152	157	3.77	157
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	-5	-5	-0.11	-5
	Badarpur TPS (NTPC) (3*95+2*210)	705	168	162	3.58	149
	Thermal (Total)	**2917**	**392**	**391**	**9.10**	**379**
	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**	**392**	**391**	**9.10**	**379**

HP	Baspa HPS (IPP) (3*100)	300	29	78	1.83	76
	Malana HPS (IPP) (2*43)	86	45	0	0.48	20
	Other Hydro	372	213	217	5.47	228
	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	115	99	2.57	107
	Renewable(Total)	**486**	**115**	**99**	**2.57**	**107**
	Total HP	**1244**	**402**	**394**	**10.36**	**432**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	252	251	6.03	251
	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**	**390**	**344**	**9**	**367**
Total State Control Area Generation		**50078**	**18323**	**17419**	**416.58**	**17358**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**5569**	**5988**	**143.86**	**5994**
Total Regional Availability(Gross)		**75315**	**41853**	**32170**	**818.05**	**34085**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**9526**	**1594**	**81.90**	**3413**
State Control Area Hydro	**7163**	**2355**	**2031**	**53.20**	**2396**
Total Regional Hydro	**19397**	**11881**	**3625**	**135.11**	**5809**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.11**	**4**
State Control Area Renewable	**7356**	**267**	**646**	**11.42**	**476**
Total Regional Renewable	**7386**	**267**	**646**	**11.53**	**480**

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-500	-500	0	500	0.00	12.10	-12.10
765 KV Gwalior-Agra (D/C)	2222	2130	2496	0	46.80	0.00	46.80
400 KV Zerda-Kankroli	213	31	213	0	2.56	0.00	2.56
400 KV Zerda-Bhinmal	261	77	299	-37	3.90	0.00	3.90
220 KV Auraiya-Malanpur	-46	-77	0	91	0.00	1.64	-1.64
220 KV Badod-Kota/Morak	15	10	43	65	0.00	0.28	-0.28
Mundra-Mohindergarh(HVDC Bipole)	601	998	1004	0.00	22.89	0.00	22.89
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1181	1125	704	0	29.11	0.00	29.11
Sub Total WR	**3947**	**3794**			**105.25**	**14.02**	**91.23**
Pusauli Bypass/HVDC	-44	-31	300	272	7.17	5.87	1.30
400 KV MZP- GKP (D/C)	37	62	192	-74	2.52	0.00	2.52
400 KV Patna-Balia(D/C) X 2	377	498	536	0	11.74	0.00	11.74
400 KV B'Sharif-Balia (D/C)	-25	35	93	25	0.97	0.00	0.97
765 KV Gaya-Balia	218	262	308	0	5.61	0.00	5.61
765 KV Gaya-Varanasi (D/C)	260	386	465	0	7.87	0.00	7.87
220 KV Pusauli-Sahupuri	212	172	212	0	4.06	0.00	4.06
132 KV K'nasa-Sahupuri	-28	-20	0	30	0.00	0.54	-0.54
132 KV Son Ngr-Rihand	-44	-37	0	46	0.00	0.97	-0.97
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-275	-185	0	312	0.00	3.89	-3.89
400 KV Barh -GKP (D/C)	376	416	460	0	8.36	0.00	8.36
400 kV B'Sharif - Varanasi (D/C)	-118	-39	13	171	0.00	0.99	-0.99
Sub Total ER	**946**	**1519**			**48.29**	**12.25**	**36.04**
+/- 800 KV BiswanathCharialli-Agra	676	675	682	0.00	16.59	0.00	16.59
Sub Total NER	**676**	**675**			**16.59**	**0.00**	**16.59**
Total IR Exch	**5569**	**5988**			**170.13**	**26.27**	**143.86**

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
38.10	2.25	40.35	-0.95	-11.96	0.02	8.66	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
39.41	99.58	139.00	52.63	91.23	143.86	13.22	-8.36	4.86

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-29	0	0	31	0	0	-0.09

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	3.16	52.37	79.05	15.16	2.70	0.00	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Frequency	Variation		MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.20	18.00	49.81	22.08	50.00	0.029	0.054	50.16	49.92	20.95

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	0:00	402	20:25	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	12:04	398	18:41	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	16:04	404	18:38	0.0	0.0	0.2	0.0	0.2
Kanpur	400	418	16:02	409	10:05	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	1:58	410	18:36	0.0	0.0	28.3	0.0	28.3
Ballabhgarh	400	433	2:02	416	18:40	0.0	0.0	80.7	14.9	80.7
Bawana	400	428	2:01	412	18:31	0.0	0.0	49.0	0.0	49.0
Bassi	400	421	16:02	399	7:33	0.0	0.0	0.2	0.0	0.2
Hissar	400	421	1:58	407	18:41	0.0	0.0	1.4	0.0	1.4
Moga	400	424	1:57	409	10:08	0.0	0.0	20.8	0.0	20.8
Abdullapur	400	426	1:57	410	18:30	0.0	0.0	41.4	0.0	41.4
Nalagarh	400	433	0:07	416	18:22	0.0	0.0	75.0	1.4	75.0
Kishenpur	400	424	2:52	397	18:10	0.0	0.0	13.2	0.0	13.2
Wagoora	400	396	13:05	366	18:07	20.6	74.4	0.0	0.0	20.6
Amritsar	400	431	1:58	411	10:08	0.0	0.0	55.6	4.1	55.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	416	2:01	399	18:29	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	776	16:03	750	18:41	0.0	0.0	0.0	0.0	0.0
Balia	765	787	12:03	763	18:39	0.0	0.0	0.0	0.0	0.0
Moga	765	802	2:01	779	18:37	0.0	0.0	2.8	0.0	2.8
Agra	765	791	16:02	766	22:11	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	16:02	786	10:07	0.0	0.0	32.1	0.0	32.1
Unnao	765	771	16:04	746	18:39	0.0	0.0	0.0	0.0	0.0
Lucknow	765	800	16:05	771	18:41	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	16:02	772	18:39	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	801	17:00	781	18:39	0.0	0.0	0.9	0.0	0.9
Bareilly 765 kV	765	795	16:04	764	18:40	0.0	0.0	0.0	0.0	0.0
Anta	765	796	16:04	777	22:28	0.0	0.0	0.0	0.0	0.0
Phagi	765	797	4:01	774	7:33	0.0	0.0	0.0	0.0	0.0

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

IX. Reservior Parameters:

Name of Reservior	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	498.62	1041.47	509.33	1515.08	267.37	386.04
Pong	426.72	384.05	414.53	656.23	418.48	821.34	56.97	345.86
Tehri	829.79	740.04	822.80	1061.41	817.45	951.25	57.43	169.00
Koteshwar	612.50	598.50	610.83	5.00	610.49	4.81	169.00	145.03
Chamera-I	760.00	748.75	759.76	0.00	0.00	0.00	62.04	73.47
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	513.04	4.05	511.02	4.30	77.57	208.91

*** 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	-343	0	0	-343	8	0	-10.85	2.79	-8.06
Delhi	-132	-291	0	-229	22	0	-6.44	-1.20	-7.64
Haryana	-571	172	0	-310	208	0	-9.33	4.73	-4.59
HP	197	-97	0	74	-673	0	4.31	-4.90	-0.59
J&K	342	0	0	448	0	0	9.36	0.00	9.36
CHD	-30	0	0	-30	0	-15	-0.36	-0.03	-0.39
Rajasthan	-7	307	0	-7	363	0	4.45	8.24	12.69
UP	93	0	0	-149	389	0	-7.74	1.11	-6.63
Uttarakhand	148	115	0	180	-93	0	3.31	1.63	4.94
Total	**-304**	**206**	**0**	**-367**	**224**	**-15**	**-13.29**	**12.37**	**-0.92**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-343	-604	406	0	0	0
Delhi	-113	-418	204	-425	0	0
Haryana	-275	-611	228	22	0	0
HP	247	74	12	-854	0	0
J&K	448	339	0	0	0	0
CHD	0	-30	0	0	10	-30
Rajasthan	455	-7	365	305	0	0
UP	134	-811	489	-100	0	0
Uttarakhand	180	44	274	-191	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	**0.00%**

(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	17
Haryana	1	14
Rajasthan	2	20
Delhi	3	22
UP	2	14
Uttarakhand	3	19
HP	2	29
J & K	5	26
Chandigarh	0	12

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 01.11.2016 :
Normal

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :
1. 220 kV Bays (206, 207, 208) at 400kV Shahjahanpur first time charged at 11:55, 11:53, 11:52 hrs/01.11.2016 respectively.
2. 400 kV Bays (410, 413, 414, 416, 417 & 418) at 400kV Shahjahanpur first time charged at 12:47, 17:49, 18:07, 17:55, 17:56 & 12:41 hrs hrs/01.11.2016 respectively.

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.

Report for : 01.11.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER