पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.10.2017

Date of Reporting : 29.10.2017

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
42611	1612	44223	50.01	34618	258	34876	49.99	900.78	11.63

* 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	Gas/Naptha/ Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	51.18	10.39	0.00	0.07	0.00	0.12	61.76	48.75	48.10	-0.65	109.85	0.00
Haryana	32.73	0.65	3.75	0.00	0.00	0.00	37.13	86.21	87.08	0.87	124.21	0.00
Rajasthan	124.80	3.08	6.00	2.90	2.24	4.82	143.85	59.10	58.93	-0.17	202.78	0.00
Delhi	0.00	0.00	14.03	0.00	0.00	0.00	14.03	56.05	55.20	-0.85	69.23	0.01
UP	164.01	9.06	0.00	0.00	0.00	2.40	175.47	117.25	117.74	0.49	293.20	2.23
Uttarakhand	0.00	12.17	7.03	0.61	0.00	0.00	19.81	14.68	14.18	-0.50	33.99	0.00
HP	0.00	6.17	0.00	0.00	0.00	2.85	9.03	15.70	16.40	0.69	25.42	0.03
J & K	0.00	5.65	0.00	0.00	0.00	0.00	5.65	32.72	33.31	0.59	38.96	9.36
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	3.13	-0.92	3.13	0.00
Total	**372.72**	**47.17**	**30.81**	**3.59**	**2.24**	**10.20**	**466.73**	**434.50**	**434.05**	**-0.45**	**900.78**	11.63

* 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	5363	0	-211	-1044	3877	0	-32	-512	5363	19	0
Haryana	6376	41	128	114	4717	0	185	27	6376	19	41
Rajasthan	8937	0	117	-1661	7923	0	-89	-768	9829	7	0
Delhi	3456	0	-30	-621	2327	0	13	-587	3482	20	0
UP	13628	1105	-645	144	12290	0	110	108	13786	18	0
Uttarakhand	1704	0	-5	7	1113	0	-51	7	1704	19	0
HP	1113	0	57	-779	818	0	-5	228	1288	8	0
J&K	1864	466	62	177	1463	258	7	463	1864	19	466
Chandigarh	170	0	-42	-91	91	0	-39	0	170	19	0
Total	**42611**	**1612**	**-568**	**-3752**	**34618**	**258**	**98**	**-1033**	**42611**	**19**	**1612**

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

Diversity is 1.03

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	1720	1898	1892	41.88	1745	41.10	0.79
	Rihand I STPS (2*500)	1000	923	986	965	22.09	920	22.04	0.05
	Rihand II STPS (2*500)	1000	943	997	1009	23.06	961	22.40	0.66
	Rihand III STPS (2*500)	1000	943	1009	962	22.96	957	22.20	0.76
	Dadri I STPS (4*210)	840	769	321	311	8.05	335	8.11	-0.06
	Dadri II STPS (2*490)	980	929	780	492	15.13	631	15.59	-0.46
	Unchahar I TPS (2*210)	420	156	133	129	3.19	133	2.70	0.49
	Unchahar II TPS (2*210)	420	311	304	232	5.55	231	5.52	0.03
	Unchahar III TPS (1*210)	210	192	136	117	2.98	124	3.01	-0.03
	Unchahar IV TPS(1*500)	500	400	373	326	9.01	375	8.57	0.44
	ISTPP (Jhajjhar) (3*500)	1500	948	952	570	16.71	696	16.95	-0.24
	Dadri GPS (4*130.19+2*154.51)	830	796	142	158	3.49	145	3.44	0.04
	Anta GPS (3*88.71+1*153.2)	419	289	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	615	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	3	0	0	0.07	3	0.06	0.00
	KHEP(4*200)	800	792	659	0	4.69	196	4.22	0.47
	Sub Total (A)	**12612**	**10730**	**8690**	**7163**	**179**	**7454**	**176**	**2.93**
B. NPC	NAPS (2*220)	440	400	433	442	9.59	400	9.58	0.01
	RAPS- B (2*220)	440	395	336	441	9.47	395	9.37	0.10
	RAPS- C (2*220)	440	430	451	452	9.88	412	10.32	-0.44
	Sub Total (B)	**1320**	**1225**	**1220**	**1335**	**28.94**	**1206**	**29.27**	**-0.33**
C. NHPC	Chamera I HPS (3*180)	540	534	549	0	2.57	107	2.30	0.27
	Chamera II HPS (3*100)	300	300	303	0	2.04	85	1.95	0.09
	Chamera III HPS (3*77)	231	55	231	0	1.37	57	1.33	0.04
	Bairasuil HPS(3*60)	180	122	124	0	0.06	3	0.52	-0.46
	Salal-HPS (6*115)	690	146	452	132	4.19	175	3.50	0.69
	Tanakpur-HPS (3*31.4)	94	50	52	53	1.33	55	1.20	0.13
	Uri-I HPS (4*120)	480	63	101	32	1.73	72	1.51	0.21
	Uri-II HPS (4*60)	240	50	37	38	1.23	51	1.19	0.04
	Dhauliganga-HPS (4*70)	280	89	284	71	2.18	91	2.14	0.05
	Dulhasti-HPS (3*130)	390	387	399	0	5.80	242	5.50	0.30
	Sewa-II HPS (3*40)	120	119	121	0	0.32	13	0.36	-0.04
	Parbati 3 (4*130)	520	37	267	0	0.81	34	0.77	0.04
	Sub Total (C)	**4065**	**1951**	**2919**	**326**	**24**	**984**	**22**	**1.36**
D.SJVNL	NJPC (6*250)	1500	1482	1494	0	12.38	516	12.14	0.24
	Rampur HEP (6*68.67)	412	408	388	0	3.52	147	3.38	0.14
	Sub Total (D)	**1912**	**1890**	**1882**	**0**	**15.90**	**662**	**15.52**	**0.38**
E. THDC	Tehri HPS (4*250)	1000	988	981	0	6.83	285	6.65	0.18
	Koteshwar HPS (4*100)	400	96	100	91	2.30	96	2.24	0.05
	Sub Total (E)	**1400**	**1084**	**1081**	**91**	**9.13**	**380**	**8.89**	**0.23**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	501	1070	368	12.08	504	12.02	0.06
	Dehar HPS (6*165)	990	220	495	165	5.48	228	5.27	0.21
	Pong HPS (6*66)	396	292	330	198	7.03	293	7.00	0.03
	Sub Total (F)	**2765**	**1012**	**1895**	**731**	**24.59**	**1025**	**24.30**	**0.29**
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	119	0	0.79	33	0.84	-0.05
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	825	0	6.52	272	6.40	0.12
	Malana Stg-II HPS (2*50)	100	0	15	16	0.49	20	0.50	-0.01
	Shree Cement TPS (2*150)	300	0	147	148	3.52	147	3.54	-0.03
	Budhil HPS(IPP) (2*35)	70	0	35	0	0.35	15	0.42	-0.06
	Sainj HPS (IPP) (2*50)	100	0					0.75	
	Sub Total (G)	**1762**	**0**	**1141**	**164**	**11.67**	**486**	**11.70**	**-0.04**
H. Total Regional Entities (A-G)		**25837**	**17893**	**18828**	**9810**	**292.75**	**12198**	**287.92**	**4.83**

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	0	0	0.00	0
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.00	0
	Goindwal(GVK) (2*270)	540	246	145	4.87	203
	Rajpura (2*700)	1400	660	660	15.86	661
	Talwandi Saboo (3*660)	1980	1350	924	30.45	1269
	Thermal (Total)	**6560**	**2256**	**1729**	51.18	**2132**
	Total Hydro	1000	433	434	10.39	433
	Wind Power	0	0	0	0.00	0

	Biomass	303	0	0	0.12	5
	Solar	859	0	0	0.07	3
	Renewable(Total)	**1162**	**0**	**0**	**0.19**	**8**
	Total Punjab	**8722**	**2689**	**2163**	**61.76**	**2573**
Haryana	Panipat TPS (2*210+2*250)	920	173	169	3.93	164
	DCRTPP (Yamuna nagar) (2*300)	600	448	428	10.26	428
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	160	155	3.75	156
	RGTPP (khedar) (IPP) (2*600)	1200	0	392	5.37	224
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	614	404	13.17	549
	Thermal (Total)	**4497**	**1395**	**1548**	**36.48**	**1520**
	Total Hydro	62	22	21	0.65	27
	Wind Power	0	0	0	0.00	0
	Biomass	106	0	0	0.00	0
	Solar	50	0	0	0.00	0
	Renewable(Total)	**156**	**0**	**0**	**0.00**	**0**
	Total Haryana	**4715**	**1417**	**1569**	**37.13**	**1547**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1165	819	25.83	1076
	suratgarh TPS (6*250)	1500	451	367	10.07	420
	Chabra TPS (4*250)	1000	930	1391	28.27	1178
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	112	101	2.69	112
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	148	136	3.31	138
	RAPS A (NPC) (1*100+1*200)	300	135	186	4.19	175
	Barsingsar (NLC) (2*125)	250	205	221	4.55	190
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	837	841	20.38	849
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	872	881	21.03	876
	Kawai(Adani) (2*660)	1320	616	619	14.67	611
	Thermal (Total)	**9536**	**5471**	**5562**	**134.99**	**5625**
	Total Hydro	550	163	189	3.08	128
	Wind power	4292	165	116	2.24	93
	Biomass	102	26	26	0.63	26
	Solar	1995	3	0	2.90	121
	Renewable/Others (Total)	6389	194	142	5.78	241
	Total Rajasthan	**16475**	**5828**	**5893**	**143.85**	**5994**
UP	Anpara TPS (3*210+2*500)	1630	1182	1187	29.57	1232
	Obra TPS (2*50+2*94+5*200)	1194	320	468	10.53	439
	Paricha TPS (2*110+2*220+2*250)	1160	592	581	14.39	599
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	319	316	7.79	325
	Tanda TPS (NTPC) (4*110)	440	274	286	7.17	299
	Roza TPS (IPP) (4*300)	1200	763	905	20.24	843
	Anpara-C (IPP) (2*600)	1200	1096	1110	26.31	1096
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	446	449	10.64	443
	Lalitpur TPS(3*660)	1980	759	1242	24.05	1002
	Bara(2*660)	1320	574	578	13.32	555
	Thermal (Total)	**12449**	**6325**	**7122**	**164.01**	**6834**
	Vishnuparyag HPS (IPP)(4*110)	440	197	210	4.63	193
	Alaknanada(4*82.5)	330	164	82	2.94	123
	Other Hydro	527	84	56	1.49	62
	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**	**6870**	**7570**	**175.47**	**7311**
Uttarakhand	Other Hydro	1250	769	391	12.17	507
	Total Gas	450	288	299	7.03	293
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.61	26
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.61	26
	Total Uttarakhand	**2107**	**1057**	**690**	**19.81**	**825**
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	80	79	1.48	62
	Pragati Gas Turbine (2x104+ 1x122)	330	265	265	6.38	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	250	6.18	257
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**595**	**594**	**14.03**	**585**
	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**	**595**	**594**	**14.03**	**585**
HP	Baspa HPS (IPP) (3*100)	300	124	34	2.05	85
	Malana HPS (IPP) (2*43)	86	26	0	0.49	21
	Other Hydro (>25MW)	372	175	135	3.63	151
	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	140	106	2.85	119
	Renewable(Total)	**486**	**140**	**106**	**2.85**	**119**
	Total HP	**1244**	**464**	**275**	**9.03**	**376**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	226	235	5.51	229
	Other Hydro/IPP(including 98 MW Small Hydro)	308	55	23	0.15	6
	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**	**281**	**258**	**6**	**236**
Total State Control Area Generation		**52451**	**19201**	**19012**	**466.73**	**19447**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**5785**	**7245**	**162.18**	**6758**
Total Regional Availability(Gross)		**78288**	**43814**	**36067**	**921.66**	**38402**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**9394**	**1164**	**86.08**	**3572**
State Control Area Hydro	**7468**	**2865**	**2215**	**47.17**	**2403**
Total Regional Hydro	**19702**	**12260**	**3378**	**133.26**	**5975**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.12**	**5**
State Control Area Renewable	**8844**	**334**	**248**	**9.44**	**393**

Total Regional Renewable	**8874**	**334**	**248**	**9.56**	**398**

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)	-400	-400	0	500	0.00	9.72	-9.72
765 KV Gwalior-Agra (D/C)	1414	2206	2257	0	45.56	0.00	45.56
400 KV Zerda-Kankroli	-176	-47	0	350	0.00	3.77	-3.77
400 KV Zerda-Bhinmal	-131	-2	93	267	0.00	1.75	-1.75
220 KV Auraiya-Malanpur	-84	-54	0	91	0.00	1.43	-1.43
220 KV Badod-Kota/Morak	-137	-127	0	224	0.00	3.52	-3.52
Mundra-Mohindergarh(HVDC Bipole)	2070	1399	2206	0	44.62	0.00	44.62
400 KV RAPPC-Sujalpur	192	119	330	0	2.76	0.00	2.76
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	564	874	1013	0	17.46	0.00	17.46
+/- 800 kV HVDC Champa-Kurushetra	500	500	500	0	11.52	0	11.52
Sub Total WR	**3812**	**4468**			**121.91**	**20.19**	**101.72**
400 kV Sasaram - Varanasi	212	178	212	0	4.51	0.00	4.51
400 kV Sasaram - Allahabad	26	63	74	0	1.39	0.00	1.39
400 KV MZP- GKP (D/C)	72	358	445	0	7.46	0.00	7.46
400 KV Patna-Balia(D/C) X 2	377	713	933	0	16.48	0.00	16.48
400 KV B'Sharif-Balia (D/C)	100	60	114	96	0.56	0.00	0.56
765 KV Gaya-Balia	24	187	201	0	2.70	0.00	2.70
765 KV Gaya-Varanasi (D/C)	191	214	289	191	3.27	0.00	3.27
220 KV Pusauli-Sahupuri	127	97	136	0	2.65	0.00	2.65
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.48	0.00
132 KV Son Ngr-Rihand	-32	-17	0	32	0.00	0.60	-0.60
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-325	-148	1	325	0.00	2.94	-2.94
400 KV Barh -GKP (D/C)	-254	-192	0	262	0.00	4.18	-4.18
400 kV B'Sharif - Varanasi (D/C)	255	64	225	21	1.58	0.00	1.58
+/- 800 KV HVDC Alipurduar-Agra	500	500	500	0	13.81	0.00	13.81
Sub Total ER	**1273**	**2077**			**54.88**	**8.20**	**46.69**
+/- 800 KV HVDC BiswanathCharialli-Agra	700	700	700	0.00	13.77	0.00	13.77
Sub Total NER	**700**	**700**			**13.77**	**0.00**	**13.77**
Total IR Exch	**5785**	**7245**			**190.57**	**28.38**	**162.18**

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
42.96	1.41	44.37	-5.63	-6.49	-10.42	-15.00	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
28.32	138.52	166.84	60.46	101.72	162.18	32.14	-36.79	-4.66

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	0	0	0	22	0	0	-0.03

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	0.13	3.98	18.50	73.15	76.12	4.92	0.49	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)	
50.15	13.03	49.69	18.11	49.95	0.073	0.072	50.07	49.79	23.88

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	406	06:31	402	09:52	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	06:29	396	17:51	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	416	06:30	391	20:30	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	02:39	406	18:10	0.0	0.0	0.0	0.0	0.0
Dadri	400	417	02:37	404	18:08	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	418	02:37	404	18:09	0.0	0.0	0.0	0.0	0.0
Bawana	400	419	02:35	405	18:12	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	20:11	394	06:12	0.0	0.0	0.0	0.0	0.0
Hissar	400	417	21:44	401	18:12	0.0	0.0	0.0	0.0	0.0
Moga	400	422	02:34	408	11:39	0.0	0.0	8.5	0.0	8.5
Abdullapur	400	423	02:36	408	18:09	0.0	0.0	23.5	0.0	23.5
Nalagarh	400	430	02:39	411	18:13	0.0	0.0	56.5	0.0	56.5
Kishenpur	400	422	01:37	399	18:06	0.0	0.0	8.7	0.0	8.7
Wagoora	400	407	13:00	369	18:06	23.4	53.8	0.0	0.0	23.4
Amritsar	400	429	02:35	413	09:56	0.0	0.0	51.3	0.0	51.3
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	411	00:00	411	00:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	418	05:05	402	12:14	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 Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	775	13:03	753	18:11	0.0	0.0	0.0	0.0	0.0
Balia	765	784	13:01	758	18:12	0.0	0.0	0.0	0.0	0.0
Moga	765	801	20:56	776	18:14	0.0	0.0	0.3	0.0	0.3
Agra	765	791	19:54	764	18:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	20:56	781	10:31	0.0	0.0	0.3	0.0	0.3
Unnao	765	768	06:30	747	18:11	0.0	0.0	0.0	0.0	0.0
Lucknow	765	788	06:29	762	18:09	0.0	0.0	0.0	0.0	0.0
Meerut	765	808	20:53	778	12:14	0.0	0.0	7.4	0.0	7.4
Jhatikara	765	800	20:55	775	18:11	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	793	06:32	764	18:13	0.0	0.0	0.0	0.0	0.0
Anta	765	788	19:47	765	06:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	19:49	766	06:10	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	507.15	1411.35	499.02	1053.16	259.07	347.25
Pong	426.72	384.05	417.36	768.49	415.05	680.86	67.93	417.62
Tehri	829.79	740.04	823.50	1076.22	823.30	1071.99	80.30	149.00
Koteshwar	612.50	598.50	611.72	5.20	609.09	4.21	149.00	151.60

Chamera-I	760.00	748.75	754.66	0.00	0.00	0.00	68.66	69.54
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	514.57	3.60	513.82	4.58	73.37	143.21

*** 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	-512	0	0	-537	-507	0	-11.52	-2.70	-14.22
Delhi	-382	-205	0	-155	-466	0	-5.69	-7.58	-13.26
Haryana	25	2	0	109	6	0	-1.05	0.11	-0.94
HP	228	0	0	-105	-675	0	2.32	-3.22	-0.89
J&K	163	301	0	163	14	0	3.90	5.81	9.72
CHD	0	0	0	0	-91	0	0.00	-0.02	-0.02
Rajasthan	-101	-667	0	-101	-1560	0	-2.34	-12.71	-15.05
UP	176	-68	0	213	-68	0	4.62	-1.63	2.98
Uttarakhand	5	2	0	5	3	0	0.27	1.58	1.84
Total	**-398**	**-635**	**0**	**-409**	**-3343**	**0**	**-9.49**	**-20.36**	**-29.85**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-436	-537	0	-608	0	0
Delhi	-120	-382	-99	-824	0	0
Haryana	109	-259	8	2	0	0
HP	258	-140	212	-707	0	0
J&K	163	163	419	-198	0	0
CHD	0	0	10	-91	0	0
Rajasthan	-93	-101	789	-1861	0	0
UP	223	151	-68	-68	0	0
Uttarakhand	64	-97	241	-127	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	20
Haryana	1	14
Rajasthan	1	22
Delhi	3	21
UP	0	12
Uttarakhand	2	23
HP	3	24
J & K	1	16
Chandigarh	4	38

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.10.2017 :

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.

Report for : 28.10.2017 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**