पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 25.11.2017
Date of Reporting : 26.11.2017

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
40466	521	40986	50.01	30210	285	30495	50.03	844.53	10.41

* 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	63.00	8.62	0.00	0.05	0.00	0.23	71.89	24.22	24.36	0.14	96.25	0.00
Haryana	36.38	0.42	7.38	0.00	0.00	0.00	44.17	65.89	67.84	1.95	112.01	0.02
Rajasthan	115.24	4.62	7.67	2.35	1.38	4.82	136.08	64.39	67.40	3.01	203.48	0.00
Delhi	0.00	0.00	14.73	0.00	0.00	0.00	14.73	44.88	43.88	-0.99	58.61	0.01
UP	157.43	5.77	0.00	0.00	0.00	19.20	182.40	85.12	85.21	0.09	267.61	0.33
Uttarakhand	0.00	8.05	7.07	0.56	0.00	0.00	15.68	17.69	18.90	1.21	34.58	0.00
HP	0.00	4.55	0.00	0.00	0.00	1.58	6.13	19.28	20.13	0.85	26.26	0.00
J & K	0.00	4.69	0.00	0.00	0.00	0.00	4.69	39.24	37.93	-1.31	42.62	10.06
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21	3.10	-0.11	3.10	0.00
Total	**372.05**	**36.72**	**36.84**	**2.96**	**1.38**	**25.83**	**475.77**	**363.92**	**368.76**	**4.84**	**844.53**	10.41

* 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	5109	0	84	-1413	2904	0	-9	-1002	5109	19	0
Haryana	6088	0	-92	-697	3855	0	9	-531	6088	19	0
Rajasthan	9098	0	230	-836	7896	0	239	204	11033	8	0
Delhi	3062	0	-8	-820	1548	0	15	-1178	3305	11	0
UP	11719	0	-300	-122	10386	0	270	14	11812	12	125
Uttarakhand	1811	0	96	339	1139	0	-9	258	1869	18	0
HP	1334	0	28	197	789	0	33	313	1441	9	0
J&K	2082	521	44	976	1615	285	-63	820	2082	19	521
Chandigarh	163	0	-20	0	78	0	-14	0	178	9	0
Total	**40466**	**521**	**62**	**-2376**	**30210**	**285**	**471**	**-1102**	**40466**	**19**	**521**

* 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	897	1007	843	22.15	923	21.37	0.78
	Rihand I STPS (2*500)	1000	923	865	877	20.00	833	19.92	0.08
	Rihand II STPS (2*500)	1000	943	848	954	20.20	842	19.92	0.28
	Rihand III STPS (2*500)	1000	943	826	876	19.95	831	19.92	0.03
	Dadri I STPS (4*210)	840	769	397	231	6.52	272	6.64	-0.12
	Dadri II STPS (2*490)	980	929	850	536	16.51	688	17.25	-0.75
	Unchahar I TPS (2*210)	420	160	131	122	3.10	129	3.08	0.02
	Unchahar II TPS (2*210)	420	383	381	234	7.19	300	7.16	0.03
	Unchahar III TPS (1*210)	210	192	138	116	3.57	149	3.68	-0.12
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	948	920	593	18.00	750	18.58	-0.57
	Dadri GPS (4*130.19+2*154.51)	830	806	135	138	3.45	144	3.58	-0.12
	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	625	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	3	0	0	0.02	1	0.06	-0.04
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	-0.01
	Singrauli Solar(15)	15	3	0	0	0.06	2	0.06	0.00
	KHEP(4*200)	800	792	0	0	3.03	126	2.75	0.28
	Sub Total (A)	**12612**	**9723**	**6498**	**5520**	**144**	**5991**	**144**	**-0.22**
B. NPC	NAPS (2*220)	440	411	448	449	9.86	411	9.83	0.03
	RAPS- B (2*220)	440	400	445	448	9.65	402	9.48	0.17
	RAPS- C (2*220)	440	410	452	450	10.04	418	9.84	0.20
	Sub Total (B)	**1320**	**1221**	**1345**	**1347**	**29.55**	**1231**	**29.15**	**0.40**
C. NHPC	Chamera I HPS (3*180)	540	534	542	0	1.81	75	1.60	0.20
	Chamera II HPS (3*100)	300	200	201	0	1.42	59	1.30	0.12
	Chamera III HPS (3*77)	231	231	227	0	0.91	38	0.77	0.14
	Bairasuil HPS(3*60)	180	53	40	0	0.45	19	0.37	0.08
	Salal-HPS (6*115)	690	109	345	30	2.88	120	2.63	0.25
	Tanakpur-HPS (3*31.4)	94	34	33	60	0.84	35	0.81	0.04
	Uri-I HPS (4*120)	480	81	209	33	2.16	90	1.94	0.23
	Uri-II HPS (4*60)	240	53	130	39	1.34	56	1.28	0.06
	Dhauliganga-HPS (4*70)	280	53	210	0	1.32	55	1.26	0.06
	Dulhasti-HPS (3*130)	390	387	404	0	3.57	149	3.30	0.27
	Sewa-II HPS (3*40)	120	79	81	0	0.21	9	0.24	-0.02
	Parbati 3 (4*130)	520	24	266	0	0.62	26	0.58	0.04
	Sub Total (C)	**4065**	**1837**	**2688**	**162**	**18**	**731**	**16**	**1.48**
D.SJVNL	NJPC (6*250)	1500	1497	1486	0	8.59	358	8.50	0.09
	Rampur HEP (6*68.67)	412	412	359	0	2.35	98	2.37	-0.02
	Sub Total (D)	**1912**	**1910**	**1845**	**0**	**10.93**	**456**	**10.87**	**0.06**
E. THDC	Tehri HPS (4*250)	1000	988	859	0	6.65	277	6.50	0.15
	Koteshwar HPS (4*100)	400	91	91	90	2.24	93	2.19	0.05
	Sub Total (E)	**1400**	**1079**	**950**	**90**	**8.88**	**370**	**8.69**	**0.19**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	499	1072	368	12.05	502	11.97	0.08
	Dehar HPS (6*165)	990	151	495	0	3.84	160	3.64	0.21
	Pong HPS (6*66)	396	158	264	66	3.83	159	3.80	0.02
	Sub Total (F)	**2765**	**809**	**1831**	**434**	**19.72**	**822**	**19.41**	**0.31**
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	57	0	0.63	26	0.60	0.03
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	575	0	4.83	201	4.62	0.21
	Malana Stg-II HPS (2*50)	100	0	0	0	0.30	13	0.28	0.02
	Shree Cement TPS (2*150)	300	0	0	0	0.01	0	1.37	-1.36
	Budhil HPS(IPP) (2*35)	70	0	69	0	0.21	9	0.21	0.00
	Sainj HPS (IPP) (2*50)	100	0					0.50	
	Sub Total (G)	**1762**	**0**	**700**	**0**	**5.98**	**249**	**7.09**	**-1.11**
H. Total Regional Entities (A-G)		**25837**	**16579**	**15857**	**7553**	**236.40**	**9850**	**235.28**	**1.12**

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	-0.11	-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	-0.08	-3
	Goindwal(GVK) (2*270)	540	246	0	4.18	174
	Rajpura (2*700)	1400	1320	720	28.84	1202
	Talwandi Saboo (3*660)	1980	1400	924	30.19	1258
	Thermal (Total)	**6560**	**2966**	**1644**	63.00	**2625**
	Total Hydro	1000	382	347	8.62	359
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	0.23	9
	Solar	859	0	0	0.05	2
	Renewable(Total)	**1162**	**0**	**0**	**0.27**	**11**
	Total Punjab	**8722**	**3348**	**1991**	**71.89**	**2996**
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	561	470	12.16	506
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	316	287	7.38	307
	RGTPP (khedar) (IPP) (2*600)	1200	562	386	11.43	476
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	608	370	12.79	533
	Thermal (Total)	**4497**	**2047**	**1513**	**43.75**	**1823**
	Total Hydro	62	13	15	0.42	17
	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**	**2060**	**1528**	**44.17**	**1840**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	968	705	19.34	806
	suratgarh TPS (6*250)	1500	1104	897	23.20	967
	Chabra TPS (4*250)	1000	1146	841	23.77	990
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	144	131	3.35	140
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	173	150	4.31	180
	RAPS A (NPC) (1*100+1*200)	300	81	220	4.27	178
	Barsingsar (NLC) (2*125)	250	224	224	5.26	219
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	842	648	18.05	752
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	545	452	12.78	532
	Kawai(Adani) (2*660)	1320	615	429	12.86	536
	Thermal (Total)	**9536**	**5842**	**4697**	**127.18**	**5299**
	Total Hydro	550	226	130	4.62	193
	Wind power	4292	47	141	1.38	58
	Biomass	102	23	23	0.55	23
	Solar	1995	0	0	2.35	98
	Renewable/Others (Total)	6389	70	164	4.28	179
	Total Rajasthan	**16475**	**6138**	**4991**	**136.08**	**5670**
UP	Anpara TPS (3*210+2*500)	1630	1370	1050	31.90	1329
	Obra TPS (2*50+2*94+5*200)	1194	630	511	14.06	586
	Paricha TPS (2*110+2*220+2*250)	1160	302	301	7.98	332
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	315	316	8.69	362
	Tanda TPS (NTPC) (4*110)	440	263	270	7.65	319
	Roza TPS (IPP) (4*300)	1200	774	746	19.64	818
	Anpara-C (IPP) (2*600)	1200	1092	823	23.90	996
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	453	341	10.24	426
	Lalitpur TPS(3*660)	1980	743	742	17.79	741
	Bara(2*660)	1320	388	736	15.58	649
	Thermal (Total)	**12449**	**6330**	**5836**	**157.43**	**6560**
	Vishnuparyag HPS (IPP)(4*110)	440	112	112	2.72	114
	Alaknanada(4*82.5)	330	82	78	1.81	75
	Other Hydro	527	73	30	1.24	52
	Cogeneration	981	800	800	19.20	800
	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**	**7397**	**6856**	**182.40**	**7600**
Uttarakhand	Other Hydro	1250	621	248	8.05	336
	Total Gas	450	296	298	7.07	294
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.56	23
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.56	23
	Total Uttarakhand	**2107**	**917**	**546**	**15.68**	**653**
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	75	77	1.89	79
	Pragati Gas Turbine (2x104+ 1x122)	330	271	269	6.62	276
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	248	253	6.21	259
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**594**	**599**	**14.73**	**614**
	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**	**599**	**14.73**	**614**
HP	Baspa HPS (IPP) (3*100)	300	31	31	1.53	64
	Malana HPS (IPP) (2*43)	86	59	0	0.37	15
	Other Hydro (>25MW)	372	98	89	2.66	111
	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	90	43	1.58	66
	Renewable(Total)	**486**	**90**	**43**	**1.58**	**66**
	Total HP	**1244**	**278**	**163**	**6.13**	**255**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	147	147	3.53	147
	Other Hydro/IPP(including 98 MW Small Hydro)	308	64	27	1.16	48
	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**	**211**	**174**	**5**	**195**
Total State Control Area Generation		**52451**	**20943**	**16848**	**475.77**	**19824**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**3990**	**5781**	**153.15**	**6381**
Total Regional Availability(Gross)		**78288**	**40790**	**30182**	**865.32**	**36055**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**7945**	**686**	**66.09**	**2745**
State Control Area Hydro	**7468**	**2294**	**1595**	**36.72**	**1913**
Total Regional Hydro	**19702**	**10239**	**2281**	**102.81**	**4658**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.12**	**5**
State Control Area Renewable	**8844**	**160**	**207**	**6.70**	**279**
Total Regional Renewable	**8874**	**160**	**207**	**6.81**	**284**

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)	-200	-400	0	400	0.00	6.82	-6.82
765 KV Gwalior-Agra (D/C)	761	2028	2143	0	32.28	0.00	32.28
400 KV Zerda-Kankroli	-210	-72	25	327	0.00	3.64	-3.64
400 KV Zerda-Bhinmal	-160	44	228	227	0.00	0.77	-0.77
220 KV Auraiya-Malanpur	-133	-34	0	133	0.00	1.92	-1.92
220 KV Badod-Kota/Morak	-183	-96	0	241	0.00	3.07	-3.07
Mundra-Mohindergarh(HVDC Bipole)	1202	700	2005	0	30.98	0.00	30.98
400 KV RAPPC-Sujalpur	-13	-190	343	62	2.99	0.00	2.99
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	598	1366	1366	0	24.63	0.00	24.63
+/- 800 kV HVDC Champa-Kurushetra	600	150	600	0	11.41	0	11.41
Sub Total WR	**2262**	**3496**			**102.28**	**16.23**	**86.05**
400 kV Sasaram - Varanasi	-194	-177	194	0	4.13	0.00	4.13
400 kV Sasaram - Allahabad	-47	-67	104	0	1.77	0.00	1.77
400 KV MZP- GKP (D/C)	73	220	410	0	5.92	0.00	5.92
400 KV Patna-Balia(D/C) X 2	717	781	966	0	19.65	0.00	19.65
400 KV B'Sharif-Balia (D/C)	34	118	200	0	2.73	0.00	2.73
765 KV Gaya-Balia	131	235	263	0	4.41	0.00	4.41
765 KV Gaya-Varanasi (D/C)	34	247	52	300	3.86	0.00	3.86
220 KV Pusauli-Sahupuri	-100	-69	104	0	2.09	0.00	2.09
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	148	68	96	148	0.00	0.69	-0.69
400 KV Motihari -GKP (D/C)	-224	-104	0	248	0.00	3.16	-3.16
400 kV B'Sharif - Varanasi (D/C)	156	33	163	57	0.87	0.00	0.87
+/- 800 KV HVDC Alipurduar-Agra	300	300	500	0	10.62	0.00	10.62
Sub Total ER	**1028**	**1585**			**57.00**	**3.85**	**53.16**
+/- 800 KV HVDC BiswanathCharialli-Agra	700	700	700	0.00	13.94	0.00	13.94
Sub Total NER	**700**	**700**			**13.94**	**0.00**	**13.94**
Total IR Exch	**3990**	**5781**			**173.22**	**20.07**	**153.15**

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
45.40	0.71	46.11	2.03	-38.81	-2.35	-5.38	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
45.79	113.83	159.62	67.10	86.05	153.15	21.31	-27.78	-6.47

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	-11	0	0	-30	0	0	0.19

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	12.33	62.40	76.79	9.88	1.34	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)	
50.19	13.03	49.77	15.40	49.98	0.045	0.063	50.09	49.85	23.21

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	410	0:55	406	9:10	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	0:54	401	17:52	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400k\	400	418	0:58	406	9:18	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	0:48	404	9:45	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	1:15	411	9:38	0.0	0.0	30.4	0.0	30.4
Ballabhgarh	400	423	4:01	405	9:46	0.0	0.0	14.0	0.0	14.0
Bawana	400	423	0:54	410	9:40	0.0	0.0	28.4	0.0	28.4
Bassi	400	426	4:02	404	9:18	0.0	0.0	22.8	0.0	22.8
Hissar	400	422	4:02	407	6:24	0.0	0.0	2.0	0.0	2.0
Moga	400	423	13:01	408	6:19	0.0	0.0	1.2	0.0	1.2
Abdullapur	400	428	13:05	411	6:41	0.0	0.0	38.0	0.0	38.0
Nalagarh	400	432	13:02	415	17:51	0.0	0.0	53.3	0.6	53.3
Kishenpur	400	423	13:02	403	18:16	0.0	0.0	5.1	0.0	5.1
Wagoora	400	408	9:16	378	18:25	1.1	58.5	0.0	0.0	1.1
Amritsar	400	430	23:57	414	6:38	0.0	0.0	42.4	0.0	42.4
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	426	23:59	405	6:55	0.0	0.0	21.9	0.0	21.9

Rishikesh	400	419	5:04	402	9:21	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	781	18:51	752	6:25	0.0	0.0	0.0	0.0	0.0
Balia	765	787	0:59	638	17:07	0.1	0.1	0.0	0.0	0.1
Moga	765	808	13:02	768	6:24	0.0	0.0	1.6	0.0	1.6
Agra	765	796	13:04	771	6:26	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	13:02	785	6:22	0.0	0.0	23.2	0.0	23.2
Unnao	765	776	2:56	753	9:21	0.0	0.0	0.0	0.0	0.0
Lucknow	765	794	1:00	772	9:44	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	13:02	782	6:26	0.0	0.0	19.6	0.0	19.6
Jhatikara	765	805	4:00	778	9:53	0.0	0.0	15.7	0.0	15.7
Bareilly 765 kV	765	797	1:02	774	9:20	0.0	0.0	0.0	0.0	0.0
Anta	765	796	4:01	774	9:55	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	4:06	770	9:54	0.0	0.0	2.2	0.0	2.2

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)	nflow (m^3/s)	Usage (m^3/s)
Bhakra	513.59	445.62	504.94	1312.37	495.81	937.45	217.50	338.98
Pong	426.72	384.05	414.87	668.52	412.15	566.84	40.55	233.98
Tehri	829.79	740.04	819.35	989.29	818.50	972.25	41.80	148.00
Koteshwar	612.50	598.50	610.64	4.95	609.76	4.44	148.00	146.95
Chamera-I	760.00	748.75	756.83	0.00	0.00	0.00	47.71	48.59
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	509.77	3.55	510.14	2.91	45.98	143.04

*** 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	-748	-254	0	-748	-665	0	-18.96	-11.25	-30.22
Delhi	-959	-219	0	-560	-261	0	-17.94	-3.13	-21.08
Haryana	-701	170	0	-701	4	0	-23.09	1.01	-22.09
HP	216	96	0	211	-14	0	7.09	-1.36	5.73
J&K	497	322	0	497	479	0	11.94	6.12	18.06
CHD	0	0	0	0	0	0	0.00	-0.17	-0.17
Rajasthan	87	117	0	168	-1005	0	4.31	1.04	5.35
UP	86	-72	0	-54	-68	0	-4.56	-1.66	-6.23
Uttarakhand	120	138	0	120	219	0	3.06	3.86	6.92
Total	**-1400**	**298**	**0**	**-1065**	**-1311**	**0**	**-38.17**	**-5.55**	**-43.72**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-748	-850	-254	-922	0	0
Delhi	-559	-985	187	-695	0	0
Haryana	-701	-1377	174	-586	0	0
HP	414	211	113	-703	0	0
J&K	497	497	479	-246	0	0
CHD	0	0	24	-82	0	0
Rajasthan	272	-121	1470	-1358	0	0
UP	86	-540	-68	-72	0	0
Uttarakhand	178	120	351	-266	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	1	18
Haryana	2	21
Rajasthan	2	21
Delhi	6	49
UP	0	8
Uttarakhand	0	9
HP	4	34
J & K	4	30
Chandigarh	5	36

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 25.11.2017 :

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1. 125 MVAR Bus Reactor first time charged at 12.20 Hrs on 25.11.17 at Chittoregarh(PG).
2. 400 kV Bus-2 of Chithorgarh (PG), first time charged at 20:00Hrs on 24.11.17.

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 : 25.11.2017 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**