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 22.12.2016
Date of Reporting : 23.12.2016

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
42208	656	42864	50.05	28863	381	29244	50.06	873.63	9.86

* 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	55.60	8.12	0.32	64.04	38.25	39.10	0.85	103.14	0.00
Haryana	44.80	0.29	0.00	45.08	77.52	77.23	-0.30	122.31	0.00
Rajasthan	124.50	4.40	4.33	133.23	74.18	76.97	2.79	210.19	0.51
Delhi	12.12		0.00	12.12	46.31	46.51	0.19	58.62	0.02
UP	180.47	6.70	0.00	187.17	88.41	87.71	-0.70	274.88	2.62
Uttarakhand		9.15	0.00	15.44	19.07	18.57	-0.50	34.01	0.00
HP		4.92	1.29	4.92	21.18	21.52	0.33	26.44	0.00
J & K		3.16	0.00	3.16	39.33	37.31	-2.01	40.48	6.71
Chandigarh				0.00	3.56	3.56	-0.01	3.56	0.00
Total	**417.49**	**36.74**	**5.93**	**465.16**	**407.82**	**408.47**	**0.65**	**873.63**	9.86

* 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	5390	0	-26	-708	2993	0	34	-624	5505	9:00	0
Haryana	6422	0	-98	-319	3436	0	170	-599	6422	19:00	0
Rajasthan	9531	155	132	372	8082	0	160	409	9531	19:00	155
Delhi	3039	0	80	-189	1392	0	23	-404	3302	11:00	0
UP	12617	10	94	-227	9472	0	-815	104	12617	19:00	10
Uttarakhand	1770	0	-62	272	1133	0	-52	267	1833	8:00	0
HP	1287	0	17	369	739	0	-24	592	1390	9:00	0
J&K	1966	491	-2	893	1525	381	-121	801	1966	19:00	491
Chandigarh	185	0	-16	0	91	0	-3	0	202	9:00	0
Total	**42208**	**656**	**119**	**462**	**28863**	**381**	**-628**	**547**	**42208**	**19:00**	**656**

* 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	1790	1809	1811	42.32	1763	42.12	0.20
	Rihand I STPS (2*500)	1000	835	918	698	18.83	784	18.92	-0.09
	Rihand II STPS (2*500)	1000	950	1012	807	22.92	955	21.87	1.05
	Rihand III STPS (2*500)	1000	950	993	709	21.24	885	21.25	-0.01
	Dadri I STPS (4*210)	840	815	177	140	4.10	171	4.31	-0.21
	Dadri II STPS (2*490)	980	980	680	682	17.34	722	17.62	-0.28
	Unchahar I TPS (2*210)	420	362	302	268	6.74	281	7.28	-0.54
	Unchahar II TPS (2*210)	420	405	303	277	7.35	306	8.10	-0.76
	Unchahar III TPS (1*210)	210	203	168	146	3.76	157	4.05	-0.29
	ISTPP (Jhajjhar) (3*500)	1500	1440	605	610	13.57	566	13.61	-0.03
	Dadri GPS (4*130.19+2*154.51)	830	752	287	250	6.29	262	6.98	-0.69
	Anta GPS (3*88.71+1*153.2)	419	413	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	626	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	0.03	1	0.04	-0.01
	Singrauli Solar(15)	15	2	0	0	0.05	2	0.05	0.00
	KHEP(4*200)	800	870	863	0	2.64	110	2.61	0.03
	Sub Total (A)	**12112**	**11396**	**8117**	**6398**	**167**	**6966**	**169**	**-1.65**
B. NPC	NAPS (2*220)	440	418	453	460	10.08	420	10.03	0.05
	RAPS- B (2*220)	440	386	430	432	9.26	386	9.26	0.00
	RAPS- C (2*220)	440	230	237	239	5.07	211	5.52	-0.45
	Sub Total (B)	**1320**	**1034**	**1120**	**1131**	**24.41**	**1017**	**24.82**	**-0.41**
C. NHPC	Chamera I HPS (3*180)	540	360	369	0	1.57	65	1.40	0.17
	Chamera II HPS (3*100)	300	201	207	0	0.98	41	0.93	0.05
	Chamera III HPS (3*77)	231	167	154	0	0.52	22	0.50	0.02
	Bairasuil HPS(3*60)	180	120	120	0	0.42	18	0.40	0.02
	Salal-HPS (6*115)	690	83	305	68	2.31	96	2.00	0.31
	Tanakpur-HPS (3*31.4)	94	24	32	31	0.68	28	0.57	0.11
	Uri-I HPS (4*120)	480	71	232	22	1.91	80	1.72	0.20
	Uri-II HPS (4*60)	240	49	40	40	1.21	50	1.17	0.04
	Dhauliganga-HPS (4*70)	280	210	213	0	0.98	41	0.88	0.10
	Dulhasti-HPS (3*130)	390	257	268	0	2.82	117	2.65	0.17
	Sewa-II HPS (3*40)	120	119	109	0	0.20	8	0.25	-0.05
	Parbati 3 (4*130)	520	130	129	0	0.36	15	0.39	-0.03
	Sub Total (C)	**4065**	**1791**	**2178**	**161**	**14**	**581**	**13**	**1.11**
D.SJVNL	NJPC (6*250)	1500	1615	1615	0	6.40	267	6.30	0.10
	Rampur HEP (6*68.67)	412	442	449	0	1.77	74	1.75	0.02
	Sub Total (D)	**1912**	**2057**	**2064**	**0**	**8.17**	**340**	**8.05**	**0.12**
E. THDC	Tehri HPS (4*250)	1000	1052	1005	0	7.79	325	7.50	0.29
	Koteshwar HPS (4*100)	400	121	309	92	2.95	123	2.90	0.05
	Sub Total (E)	**1400**	**1173**	**1314**	**92**	**10.74**	**448**	**10.40**	**0.34**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	584	995	358	14.04	585	14.02	0.02
	Dehar HPS (6*165)	990	109	330	0	2.66	111	2.61	0.06
	Pong HPS (6*66)	396	178	396	66	4.21	175	4.26	-0.05
	Sub Total (F)	**2765**	**870**	**1721**	**424**	**20.91**	**871**	**20.89**	**0.03**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	95	0	0.41	17	0.38	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.50	146	3.56	-0.05
	Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.00	0.00
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.16	7	0.16	0.01
	Sub Total (G)	**1662**	**0**	**725**	**0**	**4.07**	**170**	**4.10**	**-0.02**
H. Total Regional Entities (A-G)		**25237**	**18321**	**17239**	**8206**	**249.44**	**10393**	**249.92**	**-0.48**

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	160	160	3.81	159
	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	205	4.93	206
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	330	14.01	584
	Talwandi Saboo (3*660)	1980	1390	924	32.89	1371
	Thermal (Total)	**6560**	**2415**	**1619**	55.60	**2317**
	Total Hydro	1000	362	314	8.12	338
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.25	10
	Solar	560	0	0	0.07	3
	Renewable(Total)	**848**	**0**	**0**	**0.32**	**13**
	Total Punjab	**8408**	**2777**	**1933**	**64.04**	**2668**
Haryana	Panipat TPS (2*210+2*250)	920	427	408	10.04	418
	DCRTPP (Yamuna nagar) (2*300)	600	557	466	11.57	482
	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	1182	738	23.19	966
	Thermal (Total)	**4497**	**2166**	**1612**	**44.80**	**1867**
	Total Hydro	62	4	9	0.29	12
	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**	**2170**	**1621**	**45.08**	**1879**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1149	1114	26.90	1121
	suratgarh TPS (6*250)	1500	906	908	21.40	892
	Chabra TPS (4*250)	1000	819	926	21.80	908
	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	166	167	3.80	158
	RAPS A (NPC) (1*100+1*200)	300	168	171	4.20	175
	Barsingsar (NLC) (2*125)	250	114	113	2.60	108
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	836	843	20.20	842
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1130	828	23.60	983
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**8876**	**5288**	**5070**	**124.50**	**5188**
	Total Hydro	550	169	175	4.40	183
	Wind power	4017	76	91	1.80	75
	Biomass	99	7	7	0.16	7
	Solar	1295	4	0	2.37	99
	Renewable/Others (Total)	5411	87	98	4.33	180
	Total Rajasthan	**14837**	**5544**	**5343**	**133.23**	**5551**
UP	Anpara TPS (3*210+2*500)	1630	1210	1210	27.80	1158
	Obra TPS (2*50+2*94+5*200)	1194	312	296	7.70	321
	Paricha TPS (2*110+2*220+2*250)	1160	449	956	16.20	675
	Panki TPS (2*105)	210	68	68	1.70	71
	Harduaganj TPS (1*60+1*105+2*250)	665	419	405	11.40	475
	Tanda TPS (NTPC) (4*110)	440	391	274	8.27	345
	Roza TPS (IPP) (4*300)	1200	782	752	22.80	950
	Anpara-C (IPP) (2*600)	1200	1071	627	22.70	946
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	58	58	1.60	67
	Anpara-D(2*500)	1000	875	864	20.90	871
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	872	723	20.20	842
	Thermal (Total)	**12449**	**6507**	**6233**	**161.27**	**6720**
	Vishnuparyag HPS (IPP)(4*110)	440	98	88	2.10	88
	Alaknanada(4*82.5)	330	77	0	1.20	50
	Other Hydro	527	139	139	3.40	142
	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**	**7621**	**7260**	**187.17**	**7799**
Uttarakhand	Other Hydro	1250	642	317	9.15	381
	Total Gas	225	269	247	6.25	260
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.04	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.04	2
	Total Uttarakhand	1802	911	564	15.44	643
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	72	72	1.97	82
	Pragati Gas Turbine (2x104+ 1x122)	330	159	156	3.82	159
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	279	280	6.32	263
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**510**	**508**	**12.12**	**505**
	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**	**510**	**508**	**12.12**	**505**
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.10	46
	Malana HPS (IPP) (2*43)	86	45	0	0.25	10
	Other Hydro	372	91	74	2.29	95
	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	61	48	1.29	54
	Renewable(Total)	**486**	**61**	**48**	**1.29**	**54**
	Total HP	**1244**	**197**	**121**	**4.92**	**205**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	101	88	2.15	90
	Other Hydro/IPP(including 98 MW Small Hydro)	308	80	22	1.01	42
	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**	**181**	**110**	**3**	**132**

Total State Control Area Generation	**50078**	**19911**	**17460**	**465.16**	**19382**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		**3473**	**2086**	**197.15**	**8214**
Total Regional Availability(Gross)	**75315**	**40624**	**27753**	**911.75**	**37990**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8865**	**677**	**60.33**	**2514**
State Control Area Hydro	**7163**	**2138**	**1520**	**36.74**	**1793**
Total Regional Hydro	**19397**	**11004**	**2198**	**97.07**	**4307**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.10**	**4**
State Control Area Renewable	**7356**	**148**	**146**	**5.98**	**249**
Total Regional Renewable	**7386**	**148**	**146**	**6.07**	**253**

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)	-250	-500	0	500	0.00	9.03	-9.03
765 KV Gwalior-Agra (D/C)	-1769	-1825	2572	0	51.99	0.00	51.99
400 KV Zerda-Kankroli	-95	-191	0	252	0.00	3.28	-3.28
400 KV Zerda-Bhinmal	-19	-103	80	182	0.00	0.57	-0.57
220 KV Auraiya-Malanpur	-102	-85	0	145	0.00	2.22	-2.22
220 KV Badod-Kota/Morak	-87	-129	0	120	0.00	2.22	-2.22
Mundra-Mohindergarh(HVDC Bipole)	2503	1904	2506	0.00	55.10	0.00	55.10
400 KV RAPPC-Sujalpur	358	220	461	0	7.84	0.00	7.84
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1204	1197	1719	0	34.02	0.00	34.02
Sub Total WR	**1743**	**488**			**148.96**	**17.32**	**131.64**
400 kV Sasaram - Varanasi	33	-187	215	33	2.16	0.00	2.16
400 kV Sasaram - Allahabad	118	-56	62	135	0.00	0.62	-0.62
400 KV MZP- GKP (D/C)	274	380	507	0	8.66	0.00	8.66
400 KV Patna-Balia(D/C) X 2	788	728	992	0	20.49	0.00	20.49
400 KV B'Sharif-Balia (D/C)	209	242	383	0	6.24	0.00	6.24
765 KV Gaya-Balia	0	283	343	0	3.76	0.00	3.76
765 KV Gaya-Varanasi (D/C)	-626	-509	1039	0	16.23	0.00	16.23
220 KV Pusauli-Sahupuri	-120	-119	127	0	2.75	0.00	2.75
132 KV K'nasa-Sahupuri	0	-28	0	30	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-36	-44	0	44	0.00	0.92	-0.92
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	206	16	353	0	4.05	0.00	4.05
400 KV Barh -GKP (D/C)	498	498	582	0	12.03	0.00	12.03
400 kV B'Sharif - Varanasi (D/C)	-117	-106	271	0	3.53	0.00	3.53
Sub Total ER	**1227**	**1098**			**79.89**	**2.05**	**77.84**
+/- 800 KV BiswanathCharialli-Agra	503	500	0	700.00	0.00	12.33	-12.33
Sub Total NER	**503**	**500**			**0.00**	**12.33**	**-12.33**
Total IR Exch	**3473**	**2086**			**228.85**	**31.70**	**197.15**

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
47.88	0.74	48.62	2.10	-8.41	15.73	16.58	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
66.45	133.88	200.33	65.51	131.64	197.15	-0.94	-2.24	-3.18

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	-27	-29	0	-31	0	1	-0.72

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	3.25	46.11	72.21	18.01	6.59	0.02	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	6.05	49.84	9.11	50.01	0.039	0.062	50.12	49.92	27.79

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	405	0:00	398	15:22	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	1:59	401	9:28	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	422	2:01	400	15:13	0.0	0.0	3.4	0.0	3.4
Kanpur	400	418	2:02	398	9:45	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	1:45	404	10:08	0.1	0.1	21.4	0.0	21.5
Ballabhgarh	400	431	1:43	407	10:08	0.0	0.0	36.4	2.8	36.4
Bawana	400	409	0:00	409	0:00	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	4:00	400	10:10	0.0	0.0	5.9	0.0	5.9
Hissar	400	421	1:46	399	10:09	0.0	0.0	1.3	0.0	1.3
Moga	400	424	1:44	404	9:28	0.0	0.0	16.6	0.0	16.6
Abdullapur	400	430	1:48	412	9:26	0.0	0.0	36.8	0.0	36.8
Nalagarh	400	435	1:44	414	9:49	0.0	0.0	58.2	16.5	58.2
Kishenpur	400	426	2:00	402	12:26	0.0	0.0	19.9	0.0	19.9
Wagoora	400	403	5:55	374	12:26	22.0	64.4	0.0	0.0	22.0
Amritsar	400	430	1:45	408	9:28	0.0	0.0	43.2	0.0	43.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	425	0:59	406	9:19	0.0	0.0	38.9	0.0	38.9
Rishikesh	400	422	1:47	396	14:44	0.0	0.0	5.2	0.0	5.2

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	2:02	742	10:05	0.0	0.0	0.0	0.0	0.0
Balia	765	788	2:02	753	9:29	0.0	0.0	0.0	0.0	0.0
Moga	765	803	1:45	767	10:10	0.0	0.0	4.0	0.0	4.0

Agra	765	794	2:03	755	10:08	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	810	1:59	772	9:30	0.0	0.0	20.6	0.0	20.6
Unnao	765	781	2:02	732	9:29	0.0	33.9	0.0	0.0	0.0
Lucknow	765	801	2:02	764	9:29	0.0	0.0	0.1	0.0	0.1
Meerut	765	807	20:55	769	10:08	0.0	0.0	3.8	0.0	3.8
Jhatikara	765	809	2:02	769	10:08	0.0	0.0	18.0	0.0	18.0
Bareilly 765 kV	765	796	2:02	758	9:29	0.0	0.0	0.0	0.0	0.0
Anta	765	799	4:00	773	8:08	0.0	0.0	0.0	0.0	0.0
Phagi	765	804	3:59	767	9:49	0.0	0.0	10.1	0.0	10.1

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	490.24	738.95	502.65	1205.87	163.22	461.65
Pong	426.72	384.05	409.22	474.29	412.50	577.87	43.61	283.65
Tehri	829.79	740.04	811.70	836.28	805.95	724.19	39.88	179.00
Koteshwar	612.50	598.50	610.97	5.07	610.76	4.95	179.00	194.20
Chamera-I	760.00	748.75	759.84	0.00	0.00	0.00	38.42	41.94
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	506.19	2.88	500.74	4.25	33.69	128.70

*** 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	-625	2	0	-708	0	0	-18.36	2.69	-15.67
Delhi	-200	-204	0	-290	101	0	-6.14	1.33	-4.81
Haryana	-957	358	0	-662	343	0	-18.23	8.47	-9.77
HP	492	100	0	401	-32	0	12.77	-0.95	11.82
J&K	608	193	0	603	290	0	14.98	4.47	19.45
CHD	0	0	0	0	0	0	0.00	0.10	0.10
Rajasthan	-7	417	0	-7	379	0	4.29	17.19	21.48
UP	104	0	0	-127	-100	0	-8.05	-1.40	-9.45
Uttarakhand	320	-53	0	320	-48	0	7.65	0.48	8.14
Total	**-265**	**812**	**0**	**-471**	**933**	**0**	**-11.08**	**32.38**	**21.30**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-605	-997	822	-126	0	0
Delhi	-156	-381	312	-239	0	0
Haryana	-636	-986	391	38	0	0
HP	659	377	100	-593	0	0
J&K	694	590	339	-67	0	0
CHD	0	0	29	-26	0	0
Rajasthan	440	-7	1245	379	0	0
UP	138	-910	0	-100	0	0
Uttarakhand	351	180	238	-163	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	**2.08%**
Simultaneous	**2.08%**

(ii)%age of times ATC violated on the inter-regional corridors

WR	**0.00%**
ER	**36.81%**
Simultaneous	**39.93%**

(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	19
Haryana	0	10
Rajasthan	3	36
Delhi	6	40
UP	3	16
Uttarakhand	2	25
HP	4	30
J & K	3	25
Chandigarh	5	38

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 22.12.2016 :

XVI. Synchronisation of new generating units :

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

125 MVAR Bus Reactor-2 at Sonipat first time charged at 16:02 hrs on 22-12-2016

0.00

0

0

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 : 22.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER