पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
उत्तर क्षेत्रीय भार प्रेषण केंद्र
CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 01.12.2017
Date of Reporting : 02.12.2017

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
40847	631	41478	50.04	29841	289	30130	50.02	856.13	22.79

* 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	57.20	8.72	0.00	0.07	0.00	0.21	66.20	35.22	35.59	0.37	101.79	0.00
Haryana	48.72	0.40	6.97	0.00	0.00	0.00	56.09	57.45	60.60	3.15	116.68	12.40
Rajasthan	105.31	3.72	4.30	2.67	6.23	4.72	126.95	69.89	72.13	2.24	199.07	0.00
Delhi	0.00	0.00	13.26	0.00	0.00	0.00	13.26	49.23	48.84	-0.39	62.10	0.01
UP	153.07	6.34	0.00	0.00	0.00	19.20	178.61	90.43	90.95	0.52	269.56	0.00
Uttarakhand	0.00	8.32	7.21	0.40	0.00	0.00	15.93	18.77	17.83	-0.94	33.76	0.14
HP	0.00	4.01	0.00	0.00	0.00	1.65	5.66	20.95	20.82	-0.13	26.47	0.00
J & K	0.00	4.66	0.00	0.00	0.00	0.00	4.66	37.46	38.79	1.33	43.44	10.25
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.43	3.25	-0.17	3.25	0.00
Total	**364.29**	**36.15**	**31.74**	**3.15**	**6.23**	**25.78**	**467.34**	**382.82**	**388.79**	**5.97**	**856.13**	22.79

* 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	5207	0	-12	-764	3099	0	74	-764	5207	19	0
Haryana	6092	0	116	-830	3790	0	183	-771	6092	19	0
Rajasthan	8780	0	175	-290	7669	0	150	202	10890	8	0
Delhi	3260	0	75	-661	1474	0	-27	-954	3508	11	0
UP	12347	0	75	-162	10112	0	60	19	12434	20	0
Uttarakhand	1599	120	-11	309	1144	0	-14	294	1859	8	0
HP	1347	0	23	352	830	0	-17	456	1503	8	0
J&K	2045	511	112	780	1640	289	62	750	2045	19	511
Chandigarh	170	0	37	0	82	0	-15	0	191	9	0
Total	**40847**	**631**	**590**	**-1266**	**29841**	**289**	**456**	**-768**	**41698**	**8**	**1051**

* 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	1187	1483	954	28.25	1177	27.28	0.97
	Rihand I STPS (2*500)	1000	880	938	904	20.64	860	20.78	-0.15
	Rihand II STPS (2*500)	1000	943	982	879	21.88	912	21.88	0.00
	Rihand III STPS (2*500)	1000	943	973	859	21.58	899	21.62	-0.03
	Dadri I STPS (4*210)	840	769	264	227	6.42	267	6.47	-0.05
	Dadri II STPS (2*490)	980	929	674	520	16.30	679	16.97	-0.68
	Unchahar I TPS (2*210)	420	350	255	248	6.19	258	6.18	0.00
	Unchahar II TPS (2*210)	420	192	118	118	3.04	127	3.19	-0.15
	Unchahar III TPS (1*210)	210	192	123	116	3.25	136	3.33	-0.07
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	1386	1262	620	23.99	1000	25.00	-1.01
	Dadri GPS (4*130.19+2*154.51)	830	807	173	184	3.43	143	3.64	-0.21
	Anta GPS (3*88.71+1*153.2)	419	415	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	638	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	3	0	0	0.06	3	0.06	0.00
	KHEP(4*200)	800	792	788	0	3.26	136	3.00	0.26
	Sub Total (A)	**12612**	**10426**	**8033**	**5629**	**158**	**6598**	**159**	**-1.12**
B. NPC	NAPS (2*220)	440	447	445	450	9.80	408	10.64	-0.84
	RAPS- B (2*220)	440	401	442	444	9.60	400	9.50	0.11
	RAPS- C (2*220)	440	410	450	452	10.04	418	9.84	0.20
	Sub Total (B)	**1320**	**1258**	**1337**	**1346**	**29.45**	**1227**	**29.98**	**-0.53**
C. NHPC	Chamera I HPS (3*180)	540	534	537	0	1.86	78	1.60	0.26
	Chamera II HPS (3*100)	300	200	201	0	0.00	0	1.40	-1.40
	Chamera III HPS (3*77)	231	231	231	0	0.90	38	0.80	0.10
	Bairasuil HPS(3*60)	180	51	125	0	0.40	17	0.39	0.01
	Salal-HPS (6*115)	690	109	339	35	2.94	122	2.62	0.32
	Tanakpur-HPS (3*31.4)	94	32	30	30	0.79	33	0.76	0.03
	Uri-I HPS (4*120)	480	76	230	42	1.97	82	1.82	0.15
	Uri-II HPS (4*60)	240	52	164	37	1.36	57	1.26	0.10
	Dhauliganga-HPS (4*70)	280	50	208	0	1.24	52	1.23	0.01
	Dulhasti-HPS (3*130)	390	387	393	0	3.44	143	3.20	0.24
	Sewa-II HPS (3*40)	120	79	63	0	0.20	8	0.24	-0.04
	Parbati 3 (4*130)	520	16	131	0	0.41	17	0.39	0.02
	Sub Total (C)	**4065**	**1816**	**2650**	**144**	**16**	**646**	**16**	**-0.17**
D.SJVNL	NJPC (6*250)	1500	1497	1202	0	9.09	379	8.99	0.10
	Rampur HEP (6*68.67)	412	412	334	0	2.50	104	2.51	-0.01
	Sub Total (D)	**1912**	**1910**	**1536**	**0**	**11.59**	**483**	**11.50**	**0.09**
E. THDC	Tehri HPS (4*250)	1000	915	0	0	4.97	207	4.90	0.07
	Koteshwar HPS (4*100)	400	88	0	91	1.94	81	2.10	-0.16
	Sub Total (E)	**1400**	**1002**	**0**	**91**	**6.91**	**288**	**7.00**	**-0.09**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	643	1096	391	15.57	649	15.44	0.13
	Dehar HPS (6*165)	990	145	495	0	3.63	151	3.48	0.15
	Pong HPS (6*66)	396	242	330	66	5.78	241	5.80	-0.02
	Sub Total (F)	**2765**	**1030**	**1921**	**457**	**24.98**	**1041**	**24.72**	**0.26**
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	112	0	0.55	23	0.53	0.02
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	825	0	4.57	190	4.57	0.00
	Malana Stg-II HPS (2*50)	100	0	0	0	0.26	11	0.26	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	69	0	0.22	9	0.21	0.01
	Sainj HPS (IPP) (2*50)	100	0					0.39	
	Sub Total (G)	**1762**	**0**	**1006**	**0**	**5.60**	**233**	**5.57**	**0.02**
H. Total Regional Entities (A-G)		**25837**	**17441**	**16483**	**7667**	**252.39**	**10516**	**253.92**	**-1.53**

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	-0.10	-4
	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	-0.11	-5
	Goindwal(GVK) (2*270)	540	290	290	7.97	332
	Rajpura (2*700)	1400	1120	660	24.27	1011
	Talwandi Saboo (3*660)	1980	924	924	25.19	1050
	Thermal (Total)	**6560**	**2334**	**1874**	57.20	**2383**
	Total Hydro	1000	397	403	8.72	363
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	0.21	9
	Solar	859	0	0	0.07	3
	Renewable(Total)	**1162**	**0**	**0**	**0.28**	**12**
	Total Punjab	**8722**	**2731**	**2277**	**66.20**	**2758**
Haryana	Panipat TPS (2*210+2*250)	920	450	413	10.50	438
	DCRTPP (Yamuna nagar) (2*300)	600	558	478	12.48	520
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	276	283	6.97	290
	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	1205	738	25.74	1072
	Thermal (Total)	**4497**	**2489**	**1912**	**55.68**	**2320**
	Total Hydro	62	11	12	0.40	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**	**2500**	**1924**	**56.09**	**2337**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	823	780	20.39	850
	suratgarh TPS (6*250)	1500	1077	1080	28.12	1172
	Chabra TPS (4*250)	1000	925	769	20.77	865
	Chabra TPS (1*660)	660	0	0	0.00	0
	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	179	178	4.30	179
	RAPS A (NPC) (1*100+1*200)	300	164	238	4.25	177
	Barsingsar (NLC) (2*125)	250	224	224	5.27	220
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	839	457	17.79	741
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	614	431	12.97	540
	Thermal (Total)	**9536**	**4845**	**4157**	**113.86**	**4744**
	Total Hydro	550	189	127	3.72	155
	Wind power	4292	105	642	6.23	260
	Biomass	102	20	20	0.47	20
	Solar	1995	0	0	2.67	111
	Renewable/Others (Total)	6389	125	662	9.37	390
	Total Rajasthan	**16475**	**5159**	**4946**	**126.95**	**5289**
UP	Anpara TPS (3*210+2*500)	1630	1367	1128	33.14	1381
	Obra TPS (2*50+2*94+5*200)	1194	648	523	14.35	598
	Paricha TPS (2*110+2*220+2*250)	1160	430	431	11.52	480
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	261	314	8.74	364
	Tanda TPS (NTPC) (4*110)	440	275	273	7.72	322
	Roza TPS (IPP) (4*300)	1200	774	728	18.84	785
	Anpara-C (IPP) (2*600)	1200	1101	652	23.83	993
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	453	381	10.74	447
	Lalitpur TPS(3*660)	1980	609	376	12.06	503
	Bara(2*660)	1320	841	374	12.13	506
	Thermal (Total)	**12449**	**6759**	**5180**	**153.07**	**6378**
	Vishnuparyag HPS (IPP)(4*110)	440	107	102	2.47	103
	Alaknanada(4*82.5)	330	81	74	1.50	63
	Other Hydro	527	174	28	2.36	99
	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**	**7921**	**6184**	**178.61**	**7442**
Uttarakhand	Other Hydro	1250	617	214	8.32	347
	Total Gas	450	297	304	7.21	300
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.40	17
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.40	17
	Total Uttarakhand	**2107**	**914**	**518**	**15.93**	**664**
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	76	1.29	54
	Pragati Gas Turbine (2x104+ 1x122)	330	272	274	6.62	276
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	248	251	5.35	223
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**556**	**601**	**13.26**	**553**
	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**	**556**	**601**	**13.26**	**553**

HP	Baspa HPS (IPP) (3*100)	300	80	0	1.37	57
	Malana HPS (IPP) (2*43)	86	47	0	0.32	13
	Other Hydro (>25MW)	372	122	76	2.32	97
	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	92	32	1.65	69
	Renewable(Total)	**486**	**92**	**32**	**1.65**	**69**
	Total HP	**1244**	**341**	**107**	**5.66**	**236**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	147	147	3.52	147
	Other Hydro/IPP(including 98 MW Small Hydro)	308	90	32	1.14	47
	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**	**237**	**179**	**5**	**194**
Total State Control Area Generation		**52451**	**20359**	**16736**	**467.34**	**19473**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**6464**	**7708**	**155.12**	**6463**
Total Regional Availability(Gross)		**78288**	**43307**	**32112**	**874.84**	**36452**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**7832**	**692**	**67.86**	**2818**
State Control Area Hydro	**7468**	**2451**	**1550**	**36.15**	**1892**
Total Regional Hydro	**19702**	**10284**	**2243**	**104.01**	**4711**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.11**	**5**
State Control Area Renewable	**8844**	**217**	**694**	**11.70**	**488**
Total Regional Renewable	**8874**	**217**	**694**	**11.82**	**492**

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	-250	0	250	0.00	6.07	-6.07
765 KV Gwalior-Agra (D/C)	1863	2117	2433	0	43.49	0.00	43.49
400 KV Zerda-Kankroli	-127	-115	0	201	0.00	2.99	-2.99
400 KV Zerda-Bhinmal	-53	-58	136	132	0.00	0.71	-0.71
220 KV Auraiya-Malanpur	-69	-16	0	98	0.00	1.40	-1.40
220 KV Badod-Kota/Morak	-97	-87	0	191	0.00	2.25	-2.25
Mundra-Mohindergarh(HVDC Bipole)	800	1002	1006	0	22.17	0.00	22.17
400 KV RAPPC-Sujalpur	172	100	297	0	3.47	0.00	3.47
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	21.73	-21.73
765 kV Phagi-Gwalior (D/C)	1223	1361	1588	0	32.64	0.00	32.64
+/- 800 kV HVDC Champa-Kurushetra	1000	1000	1000	0	23.32	0	23.32
Sub Total WR	**4462**	**5054**			**125.09**	**35.15**	**89.93**
400 kV Sasaram - Varanasi	175	157	183	0	3.90	0.00	3.90
400 kV Sasaram - Allahabad	67	86	106	0	1.97	0.00	1.97
400 KV MZP- GKP (D/C)	173	302	514	0	7.53	0.00	7.53
400 KV Patna-Balia(D/C) X 2	681	801	1062	0	19.82	0.00	19.82
400 KV B'Sharif-Balia (D/C)	36	149	234	0	3.54	0.00	3.54
765 KV Gaya-Balia	143	241	267	0	5.11	0.00	5.11
765 KV Gaya-Varanasi (D/C)	158	332	532	0	7.90	0.00	7.90
220 KV Pusauli-Sahupuri	98	66	105	0	2.02	0.00	2.02
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-26	-17	0	37	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-66	-43	144	107	0.10	0.00	0.10
400 KV Motihari -GKP (D/C)	-232	-96	0	234	0.00	3.94	-3.94
400 kV B'Sharif - Varanasi (D/C)	95	-24	166	102	0.52	0.00	0.52
+/- 800 KV HVDC Alipurduar-Agra	0	0	150	0	1.63	0.00	1.63
Sub Total ER	**1302**	**1954**			**54.52**	**4.48**	**50.04**
+/- 800 KV HVDC BiswanathCharialli-Agra	700	700	700	0.00	15.14	0.00	15.14
Sub Total NER	**700**	**700**			**15.14**	**0.00**	**15.14**
Total IR Exch	**6464**	**7708**			**194.75**	**39.63**	**155.12**

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
46.42	0.65	47.07	-2.92	-35.56	1.94	-2.83	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
46.08	111.26	157.34	65.18	89.93	155.12	19.10	-21.32	-2.23

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	-25	0	0	28	0	0	-0.25

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	0.09	9.03	49.02	72.15	15.49	3.88	0.12	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)	
50.21	22.01	49.79	6.15	49.99	0.045	0.067	50.11	49.81	27.85

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	11:59	399	6:31	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	3:57	403	17:06	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	422	3:49	406	10:51	0.0	0.0	4.7	0.0	4.7
Kanpur	400	421	23:57	413	17:48	0.0	0.0	0.5	0.0	0.5
Dadri	400	426	4:00	413	6:25	0.0	0.0	46.9	0.0	46.9
Ballabhgarh	400	425	4:03	409	6:29	0.0	0.0	23.9	0.0	23.9
Bawana	400	426	3:48	411	10:50	0.0	0.0	33.5	0.0	33.5
Bassi	400	424	20:01	399	6:29	0.0	0.0	11.0	0.0	11.0
Hissar	400	420	3:53	403	6:53	0.0	0.0	0.0	0.0	0.0
Moga	400	421	4:01	404	17:50	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	426	3:48	411	6:49	0.0	0.0	36.0	0.0	36.0
Nalagarh	400	429	4:01	414	17:49	0.0	0.0	45.6	0.0	45.6
Kishenpur	400	421	4:01	399	17:49	0.0	0.0	0.1	0.0	0.1
Wagoora	400	408	11:15	374	17:50	21.2	74.8	0.0	0.0	21.2
Amritsar	400	427	3:53	411	9:35	0.0	0.0	37.5	0.0	37.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	0:00	419	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	421	3:48	402	10:07	0.0	0.0	1.1	0.0	1.1

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	787	13:02	760	6:42	0.0	0.0	0.0	0.0	0.0
Balia	765	796	3:48	773	17:49	0.0	0.0	0.0	0.0	0.0
Moga	765	798	13:02	763	6:49	0.0	0.0	0.0	0.0	0.0
Agra	765	797	17:01	765	6:29	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	13:05	776	6:27	0.0	0.0	6.1	0.0	6.1
Unnao	765	786	3:40	761	10:10	0.0	0.0	0.0	0.0	0.0
Lucknow	765	802	3:48	773	17:50	0.0	0.0	2.8	0.0	2.8
Meerut	765	808	4:01	776	6:42	0.0	0.0	14.5	0.0	14.5
Jhatikara	765	808	4:01	778	6:28	0.0	0.0	19.3	0.0	19.3
Bareilly 765 kV	765	805	4:00	767	10:50	0.0	0.0	13.2	0.0	13.2
Anta	765	797	13:02	767	6:23	0.0	0.0	0.0	0.0	0.0
Phagi	765	802	21:57	766	6:26	0.0	0.0	0.5	0.0	0.5

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	504.20	1272.20	494.83	891.94	203.65	446.56
Pong	426.72	384.05	414.23	644.91	411.56	544.90	51.45	357.75
Tehri	829.79	740.04	818.35	969.26	817.05	942.25	40.68	111.00
Koteshwar	612.50	598.50	610.77	4.95	611.28	5.20	111.00	128.10
Chamera-I	760.00	748.75	756.90	0.00	0.00	0.00	50.29	50.29
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	508.88	2.28	509.21	4.04	50.13	131.56

*** 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	-765	1	0	-765	0	0	-19.37	-0.19	-19.56
Delhi	-804	-150	0	-653	-8	0	-17.65	-1.64	-19.28
Haryana	-896	125	0	-927	97	0	-28.26	0.93	-27.34
HP	355	101	0	357	-5	0	11.50	-2.35	9.15
J&K	771	-20	0	771	10	0	18.50	-3.00	15.49
CHD	0	0	0	0	0	0	0.00	-0.07	-0.07
Rajasthan	83	118	0	-102	-189	0	0.89	7.40	8.29
UP	19	0	0	-94	-68	0	-10.94	-1.23	-12.17
Uttarakhand	218	76	0	218	92	0	5.40	1.93	7.33
Total	**-1019**	**251**	**0**	**-1195**	**-70**	**0**	**-39.93**	**1.76**	**-38.17**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-765	-866	1	-204	0	0
Delhi	-648	-804	295	-598	0	0
Haryana	-886	-1559	135	-402	0	0
HP	653	355	101	-933	0	0
J&K	771	771	108	-505	0	0
CHD	0	0	24	-92	0	0
Rajasthan	83	-102	1957	-189	0	0
UP	19	-1098	0	-74	0	0
Uttarakhand	276	218	328	-291	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	22
Haryana	4	26
Rajasthan	3	20
Delhi	2	14
UP	0	9
Uttarakhand	2	20
HP	0	12
J & K	0	12
Chandigarh	5	32

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 01.12.2017 :

XVI. Synchronisation of new generating units :

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

1. 400 kV Greater Noida- Greater Noida (765 kV s/s) ckt-1 first time charged at 15.19 Hrs.

2. 400kV Sikar (PG) – Bikaneer ckt-2 first time charged and synchronised at 17.48 Hrs along with 50 MVAR line Reactor at Sikar (PG).

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 : 01.12.2017 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**