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

Power Supply Position in Northern Region for 28.01.2018
Date of Reporting : 29.01.2018

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
41205	529	41734	49.99	30571	302	30873	49.99	875.54	10.96

* 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	59.98	8.08	0.00	2.61	0.00	2.34	73.00	21.74	20.35	-1.38	93.36	0.00
Haryana	52.66	0.08	0.00	0.11	0.00	1.42	54.28	52.44	54.97	2.54	109.25	0.20
Rajasthan	113.44	3.57	4.38	2.97	3.22	5.16	132.73	76.61	80.01	3.40	212.74	0.00
Delhi	0.00	0.00	12.20	0.00	0.00	0.00	12.20	50.50	51.04	0.54	63.24	0.00
UP	152.53	5.97	0.00	2.67	0.00	21.60	182.77	104.26	105.09	0.83	287.86	0.04
Uttarakhand	0.00	7.25	0.00	0.36	0.00	0.00	7.61	28.24	28.13	-0.11	35.74	0.00
HP	0.00	2.81	0.00	0.00	0.00	1.19	4.00	21.29	21.89	0.60	25.90	0.35
J & K	0.00	3.82	0.00	0.00	0.00	0.00	3.82	42.19	40.22	-1.97	44.04	10.37
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23	3.42	0.18	3.42	0.00
Total	**378.61**	**31.58**	**16.58**	**8.72**	**3.22**	**31.71**	**470.42**	**400.50**	**405.11**	**4.61**	**875.54**	10.96

* 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	4640	0	193	-1485	2892	0	-83	-1383	4955	10	0
Haryana	5877	0	-114	-557	3668	0	125	-502	5877	19	0
Rajasthan	9051	0	-149	15	7949	0	241	91	10851	8	251
Delhi	2935	0	-196	-889	1546	0	17	-1308	3985	12	0
UP	13321	0	6	-31	10627	0	227	-43	13321	19	0
Uttarakhand	1883	0	75	958	1226	0	-36	659	2009	9	0
HP	1216	0	17	399	868	0	4	519	1446	11	31
J&K	2114	529	30	1030	1712	302	-46	942	2114	19	529
Chandigarh	169	0	-46	-31	85	0	5	-31	210	9	0
Total	**41205**	**529**	**-185**	**-590**	**30571**	**302**	**453**	**-1055**	**41330**	**10**	**694**

* 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	1641	1754	1848	39.08	1628	39.04	0.04
	Rihand I STPS (2*500)	1000	871	928	915	20.67	861	20.63	0.03
	Rihand II STPS (2*500)	1000	943	1005	978	22.47	936	22.12	0.36
	Rihand III STPS (2*500)	1000	943	953	924	21.95	915	21.72	0.23
	Dadri I STPS (4*210)	840	769	439	422	12.03	501	12.16	-0.14
	Dadri II STPS (2*490)	980	929	741	507	16.94	706	16.38	0.56
	Unchahar I TPS (2*210)	420	383	300	238	6.40	267	6.35	0.05
	Unchahar II TPS (2*210)	420	383	396	233	7.00	292	6.92	0.08
	Unchahar III TPS (1*210)	210	192	182	116	3.39	141	3.49	-0.10
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	948	950	583	16.57	691	17.06	-0.48
	Dadri GPS (4*130.19+2*154.51)	830	831	0	0	0.77	32	1.32	-0.56
	Anta GPS (3*88.71+1*153.2)	419	421	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	647	0	92	0.52	22	0.55	-0.02
	Dadri Solar(5)	5	1	0	0	0.02	1	0.01	0.00
	Unchahar Solar(10)	10	2	0	0	0.05	2	0.04	0.01
	Singrauli Solar(15)	15	3	0	0	0.08	3	0.07	0.01
	KHEP(4*200)	800	792	597	0	2.41	100	2.38	0.03
	Sub Total (A)	**12612**	**10696**	**8245**	**6856**	**170**	**7098**	**170**	**0.11**
B. NPC	NAPS (2*220)	440	417	449	457	9.98	416	9.97	0.01
	RAPS- B (2*220)	440	194	217	218	4.67	194	4.66	0.01
	RAPS- C (2*220)	440	418	466	465	10.07	420	10.03	0.04
	Sub Total (B)	**1320**	**1029**	**1132**	**1140**	**24.72**	**1030**	**24.65**	**0.06**
C. NHPC	Chamera I HPS (3*180)	540	534	366	0	1.76	73	1.60	0.16
	Chamera II HPS (3*100)	300	296	297	0	1.07	45	1.00	0.07
	Chamera III HPS (3*77)	231	153	156	0	0.60	25	0.50	0.10
	Bairasuil HPS(3*60)	180	52	123	0	0.37	16	0.36	0.02
	Salal-HPS (6*115)	690	70	317	35	2.08	86	1.68	0.40
	Tanakpur-HPS (3*31.4)	94	20	32	21	0.53	22	0.49	0.04
	Uri-I HPS (4*120)	480	66	230	20	1.84	77	1.59	0.25
	Uri-II HPS (4*60)	240	46	38	37	1.13	47	1.11	0.02
	Dhauliganga-HPS (4*70)	280	52	282	0	0.83	35	0.84	-0.01
	Dulhasti-HPS (3*130)	390	257	264	0	2.61	109	2.50	0.10
	Sewa-II HPS (3*40)	120	119	119	0	0.25	10	0.36	-0.11
	Parbati 3 (4*130)	520	16	0	0	0.00	0	0.39	-0.39
	Sub Total (C)	**4065**	**1682**	**2222**	**112**	**13**	**545**	**12**	**0.66**
D.SJVNL	NJPC (6*250)	1500	1387	1254	0	6.35	265	6.34	0.01
	Rampur HEP (6*68.67)	412	382	347	0	1.78	74	1.76	0.02
	Sub Total (D)	**1912**	**1769**	**1601**	**0**	**8.13**	**339**	**8.10**	**0.03**
E. THDC	Tehri HPS (4*250)	1000	916	908	0	7.69	321	7.60	0.09
	Koteshwar HPS (4*100)	400	120	296	90	2.90	121	2.88	0.02
	Sub Total (E)	**1400**	**1036**	**1204**	**90**	**10.59**	**441**	**10.48**	**0.11**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	615	1138	433	14.92	622	14.76	0.16
	Dehar HPS (6*165)	990	108	495	0	2.75	114	2.60	0.15
	Pong HPS (6*66)	396	204	264	0	4.88	203	4.90	-0.02
	Sub Total (F)	**2765**	**928**	**1897**	**433**	**22.55**	**940**	**22.27**	**0.28**
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	0	0	0.32	13	0.31	0.01
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	775	0	3.35	140	3.32	0.03
	Malana Stg-II HPS (2*50)	100	0	0	0	0.18	7	0.17	0.01
	Shree Cement TPS (2*150)	300	0	146	103	2.97	124	3.06	-0.09
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.14	6	0.14	0.00
	Sainj HPS (IPP) (2*50)	100	0					0.27	
	Sub Total (G)	**1762**	**0**	**921**	**103**	**6.96**	**290**	**6.99**	**-0.04**
H. Total Regional Entities (A-G)		**25837**	**17140**	**17222**	**8735**	**256.36**	**10682**	**255.14**	**1.22**

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	3.39	141
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.01	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	372	372	8.29	345
	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	1320	660	23.42	976
	Talwandi Saboo (3*660)	1980	1024	924	24.90	1037
	Thermal (Total)	**6560**	**2876**	**2116**	59.98	**2499**
	Total Hydro	1000	415	163	8.08	337
	Wind Power	0	0	0	0.00	0
	Biomass	303	98	98	2.34	98
	Solar	859	0	0	2.61	109
	Renewable(Total)	**1162**	**98**	**98**	**4.95**	**206**
	Total Punjab	**8722**	**3389**	**2377**	**73.00**	**3042**
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	457	460	10.99	458
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	771	770	18.80	783
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1226	738	22.87	953
	Thermal (Total)	**4497**	**2454**	**1968**	**52.66**	**2194**
	Total Hydro	62	2	3	0.08	3
	Wind Power	0	0	0	0.00	0
	Biomass	106	0	0	1.42	59
	Solar	50	0	0	0.11	5
	Renewable(Total)	**156**	**0**	**0**	**1.53**	**64**
	Total Haryana	**4715**	**2456**	**1971**	**54.28**	**2262**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	947	756	21.40	892
	suratgarh TPS (6*250)	1500	1107	898	25.06	1044
	Chabra TPS (4*250)	1000	680	698	16.29	679
	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	181	183	4.38	183
	RAPS A (NPC) (1*100+1*200)	300	195	192	4.49	187
	Barsingsar (NLC) (2*125)	250	214	218	5.07	211
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	824	820	19.85	827
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1110	926	25.77	1074
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**9536**	**5258**	**4691**	**122.31**	**5096**
	Total Hydro	550	149	97	3.57	149
	Wind power	4292	74	218	3.22	134
	Biomass	102	28	28	0.67	28
	Solar	1995	0	0	2.97	124
	Renewable/Others (Total)	6389	102	246	6.85	286
	Total Rajasthan	**16475**	**5509**	**5034**	**132.73**	**5530**
UP	Anpara TPS (3*210+2*500)	1630	1356	1172	34.25	1427
	Obra TPS (2*50+2*94+5*200)	1194	452	394	10.71	446
	Paricha TPS (2*110+2*220+2*250)	1160	814	585	17.46	727
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	444	315	9.52	397
	Tanda TPS (NTPC) (4*110)	440	386	274	8.70	362
	Roza TPS (IPP) (4*300)	1200	1056	769	21.32	888
	Anpara-C (IPP) (2*600)	1200	1068	1110	26.47	1103
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	452	453	10.85	452
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	599	376	13.26	553
	Thermal (Total)	**12449**	**6627**	**5448**	**152.53**	**6355**
	Vishnuparyag HPS (IPP)(4*110)	440	73	68	1.72	72
	Alaknanada(4*82.5)	330	73	0	1.16	48
	Other Hydro	527	257	16	3.09	129
	Cogeneration	981	900	900	21.60	900
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	2.67	111
	Renewable(Total)	**128**	**0**	**0**	**2.67**	**111**
	Total UP	**14855**	**7930**	**6432**	**182.77**	**7616**
Uttarakhand	Other Hydro	1250	429	166	7.25	302
	Total Gas	450	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.36	15
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.36	15
	Total Uttarakhand	**2107**	**429**	**166**	**7.61**	**317**
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	41	40	0.91	38
	Pragati Gas Turbine (2x104+ 1x122)	330	260	274	6.49	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	248	250	4.80	200
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**549**	**564**	**12.20**	**508**
	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**	**549**	**564**	**12.20**	**508**

HP	Baspa HPS (IPP) (3*100)	300	39	0	0.93	39
	Malana HPS (IPP) (2*43)	86	0	0	0.18	7
	Other Hydro (>25MW)	372	98	40	1.71	71
	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	96	24	1.19	50
	Renewable(Total)	**486**	**96**	**24**	**1.19**	**50**
	Total HP	**1244**	**233**	**64**	**4.00**	**167**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	117	117	2.81	117
	Other Hydro/IPP(including 98 MW Small Hydro)	308	82	20	1.02	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**	**199**	**137**	**4**	**159**
Total State Control Area Generation		**52451**	**20693**	**16744**	**470.42**	**19601**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**8217**	**9363**	**172.05**	**7169**
Total Regional Availability(Gross)		**78288**	**46132**	**34842**	**898.84**	**37452**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8295**	**635**	**60.74**	**2525**
State Control Area Hydro	**7468**	**1830**	**714**	**31.58**	**1381**
Total Regional Hydro	**19702**	**10125**	**1349**	**92.32**	**3906**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.14**	**6**
State Control Area Renewable	**8844**	**295**	**368**	**17.56**	**732**
Total Regional Renewable	**8874**	**295**	**368**	**17.71**	**738**

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	250	250	2.10	1.89	0.21
765 KV Gwalior-Agra (D/C)	1738	2046	2643	0	50.71	0.00	50.71
400 KV Zerda-Kankroli	-149	-138	0	167	0.00	2.29	-2.29
400 KV Zerda-Bhinmal	-118	-35	146	129	0.00	0.19	-0.19
220 KV Auraiya-Malanpur	-105	-95	0	133	0.00	2.48	-2.48
220 KV Badod-Kota/Morak	-51	-18	58	47	0.00	0.16	-0.16
Mundra-Mohindergarh(HVDC Bipole)	698	501	703	0	12.88	0.00	12.88
400 KV RAPPC-Sujalpur	252	240	400	0	6.29	0.00	6.29
400 KV Vindhyachal-Rihand	952	879	0	969	0.00	22.20	-22.20
765 kV Phagi-Gwalior (D/C)	988	1176	753	0	30.74	0.00	30.74
+/- 800 kV HVDC Champa-Kurushetra	2000	2000	2500	0	46.39	0	46.39
Sub Total WR	**5955**	**6806**			**149.12**	**29.22**	**119.90**
400 kV Sasaram - Varanasi	162	160	164	0	3.66	0.00	3.66
400 kV Sasaram - Allahabad	80	83	129	0	2.39	0.00	2.39
400 KV MZP- GKP (D/C)	235	314	535	0	8.82	0.00	8.82
400 KV Patna-Balia(D/C) X 2	703	703	979	0	19.10	0.00	19.10
400 KV B'Sharif-Balia (D/C)	119	137	315	0	4.99	0.00	4.99
765 KV Gaya-Balia	136	146	288	0	4.95	0.00	4.95
765 KV Gaya-Varanasi (D/C)	123	246	665	0	9.88	0.00	9.88
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.52	-0.52
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-60	-24	234	60	1.74	0.00	1.74
400 KV Motihari -GKP (D/C)	238	266	376	0	6.69	0.00	6.69
400 kV B'Sharif - Varanasi (D/C)	26	26	258	1	2.54	0.00	2.54
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	**1762**	**2057**			**64.76**	**0.52**	**64.24**
+/- 800 KV HVDC BiswanathCharialli-Agra	500	500	0	500.00	0.00	12.09	-12.09
Sub Total NER	**500**	**500**			**0.00**	**12.09**	**-12.09**
Total IR Exch	**8217**	**9363**			**213.89**	**41.83**	**172.05**

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
47.16	0.31	47.47	-3.50	-28.79	11.28	0.45	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
55.25	124.99	180.25	52.15	119.90	172.05	-3.10	-5.09	-8.19

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	-39	-25	0	-40	0	-1	0.81

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	0.42	10.63	60.28	77.92	10.22	1.44	0.19	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)	
50.24	18.02	49.77	10.08	49.98	0.044	0.063	50.09	49.85	22.08

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	1:56	399	10:53	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	1:13	400	10:55	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	2:03	401	9:23	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	1:40	405	10:37	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	1:01	409	9:48	0.0	0.0	34.2	0.0	34.2
Ballabhgarh	400	425	4:01	407	9:50	0.0	0.0	25.4	0.0	25.4
Bawana	400	428	1:07	390	6:02	0.0	0.0	35.9	0.0	35.9
Bassi	400	427	4:02	402	9:43	0.0	0.0	8.5	0.0	8.5
Hissar	400	420	3:59	404	18:29	0.0	0.0	0.0	0.0	0.0
Moga	400	421	4:01	405	18:28	0.0	0.0	0.7	0.0	0.7
Abdullapur	400	428	1:19	409	18:27	0.0	0.0	34.0	0.0	34.0
Nalagarh	400	432	13:27	411	18:24	0.0	0.0	59.7	0.5	59.7
Kishenpur	400	420	1:21	404	18:22	0.0	0.0	0.0	0.0	0.0
Wagoora	400	398	2:45	384	18:26	0.0	34.5	0.0	0.0	0.0
Amritsar	400	426	1:05	412	18:21	0.0	0.0	33.9	0.0	33.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	422	13:24	404	18:22	0.0	0.0	0.9	0.0	0.9
Rishikesh	400	416	1:14	395	9:23	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	784	1:46	734	6:01	0.0	0.0	0.0	0.0	0.0
Balia	765	786	1:44	760	10:54	0.0	0.0	0.0	0.0	0.0
Moga	765	803	13:31	765	18:27	0.0	0.0	1.6	0.0	1.6
Agra	765	796	2:03	764	10:38	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	807	3:59	783	18:26	0.0	0.0	19.5	0.0	19.5
Unnao	765	769	1:43	744	10:38	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	1:14	762	10:38	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	14:06	776	18:28	0.0	0.0	16.6	0.0	16.6
Jhatikara	765	808	4:01	780	11:19	0.0	0.0	26.1	0.0	26.1
Bareilly 765 kV	765	795	2:03	764	11:17	0.0	0.0	0.0	0.0	0.0
Anta	765	802	4:01	771	8:26	0.0	0.0	0.8	0.0	0.8
Phagi	765	806	4:00	771	8:28	0.0	0.0	2.8	0.0	2.8

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	492.48	817.99	482.80	527.87	150.93	417.14
Pong	426.72	384.05	406.38	379.44	405.21	344.07	46.98	336.57
Tehri	829.79	740.04	796.60	555.13	796.55	553.34	39.29	193.00
Koteshwar	612.50	598.50	610.57	4.85	609.70	4.40	193.00	191.80
Chamera-I	760.00	748.75	756.86	0.00	0.00	0.00	43.87	47.39
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	497.23	2.08	503.26	1.70	43.27	99.13

*** 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	-1383	0	0	-1383	-102	0	-34.17	-1.26	-35.43
Delhi	-891	-416	0	-725	-163	0	-19.05	-2.80	-21.85
Haryana	-474	-28	0	-619	62	0	-19.94	-1.92	-21.86
HP	410	109	0	391	8	0	12.70	-1.09	11.61
J&K	796	146	0	796	234	0	18.75	3.67	22.42
CHD	-31	0	0	-31	0	0	-0.37	-0.07	-0.44
Rajasthan	-96	187	0	-96	112	0	-0.74	10.30	9.55
UP	29	-71	0	35	-66	0	0.26	-1.62	-1.37
Uttarakhand	410	249	0	410	549	0	9.95	6.93	16.88
Total	**-1230**	**176**	**0**	**-1223**	**633**	**0**	**-32.61**	**12.13**	**-20.48**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-1372	-1485	0	-461	0	0
Delhi	-598	-893	455	-603	0	0
Haryana	-474	-1303	135	-1113	0	0
HP	804	260	109	-622	0	0
J&K	796	767	478	-379	0	0
CHD	0	-31	0	-61	0	0
Rajasthan	61	-96	1805	-95	0	0
UP	35	-80	-66	-71	0	0
Uttarakhand	467	410	595	80	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	4	18
Haryana	4	26
Rajasthan	5	54
Delhi	2	23
UP	0	11
Uttarakhand	4	30
HP	4	17
J & K	6	40
Chandigarh	3	22

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.01.2018 :

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 : 28.01.2018 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**