

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.02.2017

Date of Reporting : 01.03.2017



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
41750	484	42234	49.95	32428	420	32847	50.02	907.27	10.85

* 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	45.97	9.72	0.32	56.01	56.37	56.58	0.21	112.59	0.00
Haryana	34.80	0.22	0.00	35.02	94.86	94.33	-0.53	129.35	0.00
Rajasthan	123.50	4.53	15.54	143.57	67.59	69.25	1.67	212.82	0.00
Delhi	11.73		0.00	11.73	48.34	48.12	-0.22	59.85	0.01
UP	182.36	6.18	0.00	188.54	93.37	95.90	2.53	284.44	0.03
Uttarakhand		8.35	0.00	15.65	18.61	18.70	0.09	34.35	0.09
HP		8.42	2.83	8.42	18.48	19.76	1.28	28.18	0.10
J & K		7.90	0.00	7.90	35.27	34.58	-0.68	42.48	10.62
Chandigarh				0.00	3.34	3.21	-0.13	3.21	0.00
Total	398.35	45.32	18.69	466.83	436.23	440.44	4.21	907.27	10.85

* Shortage furnished by the respective constituent's 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	5848	0	-379	-353	3468	0	46	-302	6132	20:00	0
Haryana	6359	0	-86	-21	3985	0	-256	-261	6359	19:00	0
Rajasthan	8472	0	300	161	8359	0	68	434	10014	8:00	0
Delhi	2902	0	-170	-253	1529	0	5	-795	3314	11:00	0
UP	13175	0	105	-72	11401	0	-3	113	13175	19:00	0
Uttarakhand	1790	0	25	142	1194	0	-27	181	1825	8:00	0
HP	1093	0	-60	96	758	6	94	427	1401	8:00	6
J&K	1938	484	-12	503	1654	414	-95	422	1947	20:00	487
Chandigarh	173	0	-9	-20	80	0	-6	-20	189	8:00	0
Total	41750	484	-286	182	32428	420	-174	197	42425	20:00	487

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

Diversity is 1.05

UI [OD:(+ve), UG: (-ve)]

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1190	1312	1296	29.08	1212	28.49	0.59
Rihand I STPS (2*500)	1000	484	477	400	10.77	449	10.92	-0.16
Rihand II STPS (2*500)	1000	960	960	781	21.60	900	21.98	-0.38
Rihand III STPS (2*500)	1000	983	983	868	22.09	921	22.61	-0.52
Dadri I STPS (4*210)	840	815	154	158	3.48	145	3.61	-0.13
Dadri II STPS (2*490)	980	980	459	354	9.00	375	9.55	-0.55
Unchahar I TPS (2*210)	420	407	423	295	8.16	340	8.38	-0.22
Unchahar II TPS (2*210)	420	405	426	284	7.69	320	7.82	-0.13
Unchahar III TPS (1*210)	210	203	218	143	3.74	156	3.85	-0.11
ISTPP (Jhajjhar) (3*500)	1500	960	500	304	9.82	409	10.08	-0.26
Dadri GPS (4*130.19+2*154.51)	830	405	0	0	0.00	0	0.00	0.00
Anta GPS (3*88.71+1*153.2)	419	411	199	205	5.18	216	5.27	-0.09
Auraiya GPS (4*111.19+2*109.30)	663	644	153	128	3.13	130	3.22	-0.09
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.06	2	0.05	0.00
Singrauli Solar(15)	15	3	0	0	0.07	3	0.06	0.01
KHEP(4*200)	800	655	633	0	1.96	82	1.97	-0.01
Sub Total (A)	12112	9508	6897	5216	136	5660	138	-2.03
B. NPC								
NAPS (2*220)	440	414	446	452	9.83	409	9.94	-0.11
RAPS- B (2*220)	440	381	424	425	9.09	379	9.14	-0.06
RAPS- C (2*220)	440	405	431	440	9.39	391	9.72	-0.33
Sub Total (B)	1320	1200	1301	1317	28.30	1179	28.80	-0.50
C. NHPC								
Chamera I HPS (3*180)	540	495	553	0	2.62	109	2.50	0.12
Chamera II HPS (3*100)	300	301	310	0	1.38	57	1.60	-0.22
Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00
Bairasuli HPS(3*60)	180	179	185	62	2.12	88	2.05	0.07
Salal-HPS (6*115)	690	224	345	275	6.35	265	5.38	0.97
Tanakpur-HPS (3*31.4)	94	18	31	20	0.44	18	0.43	0.01
Uri-I HPS (4*120)	480	469	475	473	11.45	477	11.27	0.18
Uri-II HPS (4*60)	240	224	241	240	5.37	224	5.37	0.01
Dhauliganga-HPS (4*70)	280	140	140	0	0.79	33	0.70	0.09
Dulhasti-HPS (3*130)	390	387	384	0	3.17	132	3.00	0.17
Sewa-II HPS (3*40)	120	119	123	120	2.03	84	2.00	0.03
Parbati 3 (4*130)	520	130	131	0	0.40	17	0.39	0.01
Sub Total (C)	4065	2686	2918	1191	36	1505	35	1.44
D.SJVNL								
NJPC (6*250)	1500	1605	1575	0	6.02	251	6.01	0.01
Rampur HEP (6*88.67)	412	375	371	0	1.62	68	1.57	0.05
Sub Total (D)	1912	1980	1946	0	7.64	319	7.58	0.06
E. THDC								
Tehri HPS (4*250)	1000	816	814	0	8.48	353	8.50	-0.02
Koteshwar HPS (4*100)	400	133	393	92	3.22	134	3.20	0.02
Sub Total (E)	1400	949	1207	92	11.70	487	11.70	0.00
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	526	952	358	13.04	543	12.61	0.43
Dehar HPS (6*165)	990	145	495	0	3.55	148	3.48	0.07
Pong HPS (6*66)	396	208	300	0	5.02	209	4.99	0.03
Sub Total (F)	2765	878	1747	358	21.61	901	21.08	0.54
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.44	18	0.42	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	580	0	3.13	130	3.32	-0.19
Malana Stg-II HPS (2*50)	100	0	0	0	0.21	9	0.20	0.01
Shree Cement TPS (2*150)	300	0	229	168	5.70	237	5.67	0.03
Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	809	168	9.48	395	9.61	-0.12
H. Total Regional Entities (A-G)	25237	17202	16825	8342	250.71	10446	251.32	-0.61

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
	Goinawal(GVK) (2*270)	540	0	0	0.00	0

	Rajpura (2*700)	1400	1320	660	27.19	1133
	Talwandi Saboo (3*660)	1980	1228	616	18.78	782
	Thermal (Total)	6560	2548	1276	45.97	1915
	Total Hydro	1000	502	228	9.72	405
	Wind Power	0	0	0	0.00	0
	Biomass	288	10	10	0.24	10
	Solar	560	0	0	0.08	3
	Renewable(Total)	848	10	10	0.32	13
	Total Punjab	8408	3060	1514	56.01	2334
Haryana	Panipat TPS (2*210+2*250)	920	461	411	10.66	444
	DCRTPP (Yamuna nagar) (2*300)	600	558	463	12.61	525
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	162	160	3.94	164
	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	394	0	7.60	317
	Thermal (Total)	4497	1575	1034	34.80	1450
	Total Hydro	62	4	6	0.22	9
	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	1579	1040	35.02	1459
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	972	974	23.87	995
	suratgarh TPS (6*250)	1500	182	179	4.54	189
	Chabra TPS (4*250)	1000	1028	784	19.21	800
	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	178	170	4.58	191
	RAPS A (NPC) (1*100+1*200)	300	193	193	4.36	182
	Barsingar (NLC) (2*125)	250	193	207	4.63	193
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	523	566	14.63	610
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	833	827	21.01	875
	Kawai(Adani) (2*660)	1320	940	1176	26.68	1112
	Thermal (Total)	8876	5042	5076	123.50	5146
	Total Hydro	550	147	208	4.53	189
	Wind power	4017	360	397	13.27	553
	Biomass	99	16	16	0.39	16
	Solar	1295	0	0	1.88	78
	Renewable/Others (Total)	5411	376	413	15.54	647
	Total Rajasthan	14837	5565	5697	143.57	5982
UP	Anpara TPS (3*210+2*500)	1630	1384	1408	33.57	1399
	Obra TPS (2*50+2*94+5*200)	1194	513	513	11.83	493
	Paricha TPS (2*110+2*220+2*250)	1160	0	0	0.00	0
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaqanj TPS (1*60+1*105+2*250)	665	161	154	4.19	175
	Tanda TPS (NTPC) (4*110)	440	378	376	8.96	373
	Roza TPS (IPP) (4*300)	1200	1080	752	25.00	1042
	Anpara-C (IPP) (2*600)	1200	534	486	12.47	519
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	843	861	19.93	830
	Lalitpur TPS(3*660)	1980	1328	1194	32.98	1374
	Bara(2*660)	1320	543	545	13.04	543
	Thermal (Total)	12449	6764	6289	161.96	6748
	Vishnuparyag HPS (IPP)(4*110)	440	63	63	1.54	64
	Alaknada(4*82.5)	330	76	0	0.86	36
	Other Hydro	527	24	227	3.78	157
	Cogeneration	981	850	850	20.40	850
	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	7777	7429	188.54	7856	
Uttarakhand	Other Hydro	1250	478	320	8.35	348
	Total Gas	225	288	306	7.14	297
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.16	7
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.16	7
	Total Uttarakhand	1802	766	626	15.65	652
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	72	73	1.89	79
	Pragati Gas Turbine (2x104+ 1x122)	330	151	157	3.75	156
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	249	250	6.27	261
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	-0.18	-7
	Thermal (Total)	2917	472	480	11.73	489
	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	472	480	11.73	489	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.93	39
	Malana HPS (IPP) (2*43)	86	30	0	0.24	10
	Other Hydro	372	195	104	4.42	184
	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	133	87	2.83	118
	Renewable(Total)	486	133	87	2.83	118
	Total HP	1244	358	191	8.42	351
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	149	296	5.04
Other Hydro/IPP(including 98 MW Small Hydro)		308	133	112	2.86	119
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	282	408	8	329

Total State Control Area Generation	50078	19858	17384	466.83	19451
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7578.24	8198.44	202.00	8417
Total Regional Availability(Gross)	75315	44261	33924	919.53	38314

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9031	1641	82.82	3451
State Control Area Hydro	7163	2222	1957	45.32	2192
Total Regional Hydro	19397	11252	3597	128.15	5643

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.15	6
State Control Area Renewable	7356	519	510	18.84	785
Total Regional Renewable	7386	519	510	18.99	791

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	0	300	-150	100	2.05	1.60	0.44
765 KV Gwalior-Agra (D/C)	2400	2416	2908	0	59.96	0.00	59.96
400 KV Zerda-Kankroli	14	-135	86	183	0.00	1.04	-1.04
400 KV Zerda-Bhimnal	98	38	169	168	0.75	0.00	0.75
220 KV Auraiya-Malanpur	-74	-89	0	105	0.00	1.51	-1.51
220 KV Badod-Kota/Morak	-52	-42	16	60	0.00	0.90	-0.90
Mundra-Mohinderghar(HVDC Bipole)	2502	2098	2505	0.00	57.28	0.00	57.28
400 KV RAPPCC-Sujalpur	33	221	230	0	2.38	0.00	2.38
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	934	1116	716	0	28.03	0.00	28.03
+/- 800 kV HVDC Champa-Kurushetra	150	151	0	0	5.85	0.00	5.85
Sub Total WR	5855	5923			150.44	5.06	145.38
400 kV Sasaram - Varanasi	264	263	269	0	6.36	0.00	6.36
400 kV Sasaram - Allahabad	125	122	153	0	3.09	0.00	3.09
400 KV MZP- GKP (D/C)	214	282	402	8	5.66	0.00	5.66
400 KV Patna-Balia(D/C) X 2	487	738	814	0	12.12	0.00	12.12
400 KV B'Sharif-Balia (D/C)	124	104	240	0	3.59	0.00	3.59
765 KV Gaya-Balia	274	242	374	0	7.14	0.00	7.14
765 KV Gaya-Varanasi (D/C)	445	512	797	0	13.82	0.00	13.82
220 KV Pusauli-Sahupuri	104	176	207	0	4.04	0.00	4.04
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-26	-23	0	30	0.00	0.59	-0.59
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-256	-116	37	256	0.00	2.54	-2.54
400 KV Barh -GKP (D/C)	458	496	588	0	11.03	0.00	11.03
400 kV B'Sharif - Varanasi (D/C)	10	-20	167	66	1.76	0.00	1.76
Sub Total ER	2223	2776			69.07	3.12	65.95
+/- 800 KV HVDC BiswanathChariali-Agra	-500	-500	0	500.00	0.00	9.33	-9.33
Sub Total NER	-500	-500			0.00	9.33	-9.33
Total IR Exch	7578	8198			219.51	17.51	202.00

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
52.56	0.23	52.79	-2.25	0.35	7.02	-0.10	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
57.56	146.48	204.04	56.62	145.38	202.00	-0.94	-1.10	-2.04

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-16	-16	0	17	0	1	-0.90

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	4.50	52.58	77.87	13.78	4.19	0.35	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
50.24	13.02	49.83	21.06	50.00	0.036	0.060	50.10	49.91	22.13

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Gorakhpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bareilly(PG)400kV	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kanpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Dadri	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Ballabgarh	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bawana	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bassi	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Hissar	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Moga	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Abdullapur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Nalagarh	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kishenpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Wagoora	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Amritsar	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kashipur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Hamirpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Rishikesh	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Balia	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

Moga	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Agra	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bhiwani	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Unnao	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Lucknow	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Meerut	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Jhatikara	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bareilly 765 kV	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Anta	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Phagi	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

Note : '0' in Max / Min Col -> Telemetry Outage

IX. Reservoir Parameters:

Name of Reservoir	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	474.01	334.98	488.01	671.08	162.31	447.07
Pong	426.72	384.05	400.42	230.85	398.89	197.21	44.26	357.67
Tehri	829.79	740.04	780.55	327.38	772.75	237.99	36.67	232.00
Koteshwar	612.50	598.50	610.12	4.60	611.28	5.20	232.00	212.00
Chamera-I	760.00	748.75	758.45	0.00	0.00	0.00	94.43	70.68
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	505.16	2.01	496.09	0.64	86.45	82.02

* 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	-101	-201	0	-101	-252	0	-6.39	-1.74	-8.13
Delhi	-185	-610	0	-304	51	0	-6.22	-2.77	-8.99
Haryana	-622	361	0	-314	293	0	-9.99	7.78	-2.21
HP	368	59	0	206	-111	0	9.76	-1.79	7.97
J&K	422	0	0	419	84	0	9.93	0.00	9.93
CHD	0	-20	0	0	-20	0	0.00	-0.42	-0.42
Rajasthan	26	408	0	23	138	0	8.13	5.64	13.78
UP	113	0	0	-25	-47	0	-6.06	-0.98	-7.04
Uttarakhand	73	108	0	0	142	0	0.96	4.35	5.31
Total	93	104	0	-96	278	0	0.11	10.07	10.18

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-101	-655	0	-317	0	0
Delhi	-185	-338	424	-701	0	0
Haryana	-314	-622	372	248	0	0
HP	627	201	59	-525	0	0
J&K	422	403	99	-303	0	0
CHD	0	0	15	-56	0	0
Rajasthan	914	18	408	-324	0	0
UP	159	-721	0	-47	0	0
Uttarakhand	73	0	481	13	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	2.08%
ER	0.00%
Simultaneous	0.00%

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

WR	23.96%
ER	0.00%
Simultaneous	29.86%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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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	0	12
Rajasthan	1	18
Delhi	4	30
UP	1	13
Uttarakhand	1	19
HP	5	43
J & K	3	26
Chandigarh	3	37

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 28.02.2017 :

XVI. Synchronisation of new generating units :
ICT-II(1500MVA) 765/400kV at Fatehabad(UPPCL) first time synchronized at 14.58hr on 27.02.2017

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 : 28.02.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER