

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 15.03.2017

Date of Reporting : 16.03.2017



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
35953	552	36505	49.96	27222	417	27639	49.97	795.25	10.76

* 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	25.75	8.78	0.26	34.79	57.10	57.68	0.57	92.47	0.00
Haryana	9.25	0.30	0.00	9.55	96.62	97.72	1.10	107.27	0.00
Rajasthan	100.04	3.85	17.95	121.83	56.22	58.07	1.85	179.91	0.00
Delhi	7.16	0.00	0.00	7.16	50.10	50.61	0.51	57.77	0.00
UP	148.10	3.60	0.00	151.70	100.99	102.19	1.20	253.89	0.00
Uttarakhand		6.39	0.00	13.66	18.30	18.19	-0.11	31.85	0.00
HP		5.05	2.19	5.05	19.54	20.71	1.18	25.76	0.00
J & K		7.26	0.00	7.26	34.82	35.77	0.95	43.03	10.76
Chandigarh				0.00	3.35	3.31	-0.04	3.31	0.00
Total	290.29	35.23	20.40	351.00	437.05	444.26	7.20	795.25	10.76

* 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	4575	0	-64	-57	2770	0	34	-259	4836	20:00	0
Haryana	5399	0	-124	123	2772	0	79	-213	5772	20:00	0
Rajasthan	7195	0	-3	451	6664	0	149	426	8472	8:00	0
Delhi	2751	0	-167	-167	1373	0	91	-844	3309	11:00	0
UP	11086	75	-157	-74	10077	0	178	107	12022	20:00	0
Uttarakhand	1680	0	108	173	1058	0	19	100	1749	8:00	0
HP	1188	0	89	-61	759	0	65	345	1456	8:00	0
J&K	1907	477	-16	332	1669	417	86	374	1952	20:00	488
Chandigarh	173	0	-20	-30	80	0	-1	-20	192	8:00	0
Total	35953	552	-354	689	27222	417	701	15	38789	20:00	488

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

Diversity is 1.03

III. Regional Entities :

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

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	1486	2019	105	35.68	1487	34.97	0.70
Rihand I STPS (2*500)	1000	957	999	756	20.90	871	21.01	-0.11
Rihand II STPS (2*500)	1000	960	1000	816	22.14	922	21.48	0.66
Rihand III STPS (2*500)	1000	968	964	822	21.87	911	21.69	0.18
Dadri I STPS (4*210)	840	815	159	155	3.83	160	4.04	-0.21
Dadri II STPS (2*490)	980	980	451	344	9.09	379	9.64	-0.55
Unchahar I TPS (2*210)	420	407	378	282	7.31	305	7.76	-0.45
Unchahar II TPS (2*210)	420	405	356	278	6.90	288	7.26	-0.36
Unchahar III TPS (1*210)	210	203	188	151	3.64	152	3.79	-0.15
ISTPP (Jhajjar) (3*500)	1500	1440	974	602	17.23	718	17.54	-0.31
Dadri GPS (4*130.19+2*154.51)	830	157	0	0	1.08	45	1.07	0.01
Anta GPS (3*88.71+1*153.2)	419	410	180	260	4.30	179	4.28	0.02
Auraiya GPS (4*111.19+2*109.30)	663	644	157	150	3.47	144	3.51	-0.04
Dadri Solar(5)	5	1	0	0	0.00	0	0.03	-0.03
Unchahar Solar(10)	10	2	0	0	0.00	0	0.05	-0.05
Singrauli Solar(15)	15	0	0	0	0.00	0	0.00	0.00
KHEP(4*200)	800	872	867	0	2.65	110	2.62	0.04
Sub Total (A)	12112	10705	8692	4721	160	6670	161	-0.66
B. NPC								
NAPS (2*220)	440	418	445	458	9.93	414	10.03	-0.11
RAPS- B (2*220)	440	384	424	428	9.20	383	9.22	-0.02
RAPS- C (2*220)	440	410	441	445	9.53	397	9.84	-0.31
Sub Total (B)	1320	1212	1310	1331	28.65	1194	29.09	-0.43
C. NHPC								
Chamera I HPS (3*180)	540	540	554	0	2.83	118	2.60	0.23
Chamera II HPS (3*100)	300	301	310	0	1.26	52	1.15	0.11
Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00
Bairasuli HPS(3*60)	180	179	184	11	1.60	67	1.50	0.10
Salal-HPS (6*115)	690	167	324	165	4.88	203	4.01	0.87
Tanakpur-HPS (3*31.4)	94	20	15	21	0.48	20	0.47	0.01
Uri-I HPS (4*120)	480	422	440	439	10.51	438	10.12	0.39
Uri-II HPS (4*60)	240	206	184	233	5.04	210	4.93	0.11
Dhauliganga-HPS (4*70)	280	140	140	0	0.79	33	0.74	0.05
Dulhasti-HPS (3*130)	390	387	403	0	2.71	113	2.50	0.21
Sewa-II HPS (3*40)	120	119	127	0	1.98	83	1.90	0.08
Parbati 3 (4*130)	520	130	130	0	0.39	16	0.39	0.00
Sub Total (C)	4065	2610	2810	869	32	1353	30	2.16
D.SJVNL								
NJPC (6*250)	1500	1605	1597	0	6.33	264	6.20	0.13
Rampur HEP (6*88.67)	412	375	374	0	1.64	68	1.61	0.03
Sub Total (D)	1912	1980	1971	0	7.96	332	7.81	0.15
E. THDC								
Tehri HPS (4*250)	1000	756	556	0	7.43	309	7.30	0.13
Koteshwar HPS (4*100)	400	133	300	91	3.26	136	3.20	0.06
Sub Total (E)	1400	889	856	91	10.69	445	10.50	0.19
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	466	1063	360	11.73	489	11.19	0.54
Dehar HPS (6*165)	990	128	495	0	3.17	132	3.07	0.10
Pong HPS (6*66)	396	150	224	0	3.51	146	3.60	-0.09
Sub Total (F)	2765	744	1782	360	18.41	767	17.86	0.55
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.33	14	0.31	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	607	0	3.36	140	3.56	-0.20
Malana Stg-II HPS (2*50)	100	0	0	0	0.16	7	0.15	0.01
Shree Cement TPS (2*150)	300	0	85	129	3.50	146	3.49	0.01
Budhil HPS(IPP) (2*35)	70	0	0	0	0.18	7	0.19	-0.01
Sub Total (G)	1662	0	692	129	7.53	314	7.71	-0.18
H. Total Regional Entities (A-G)	25237	18141	18113	7501	265.79	11075	264.01	1.78

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	-0.03	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.09	-4
	Goinawal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	1270	660	26.15	1089
	Talwandi Saboo (3*660)	1980	0	0	-0.15	-6
	Thermal (Total)	6560	1270	660	25.75	1073
	Total Hydro	1000	294	216	8.78	366
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.19	8
	Solar	560	0	0	0.07	3
	Renewable(Total)	848	0	0	0.26	11
	Total Punjab	8408	1564	876	34.79	1450
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	255	18	4.88	203
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	197	155	4.37	182
	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	0	0	0.00	0
	Thermal (Total)	4497	452	173	9.25	385
	Total Hydro	62	6	14	0.30	13
	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	458	187	9.55	398
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	307	297	7.68	320
	suratgarh TPS (6*250)	1500	180	181	4.49	187
	Chabra TPS (4*250)	1000	739	757	18.65	777
	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	172	178	4.46	186
	RAPS A (NPC) (1*100+1*200)	300	194	194	4.34	181
	Barsingar (NLC) (2*125)	250	212	213	4.95	206
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	383	382	10.82	451
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	826	826	20.68	862
	Kawai(Adani) (2*660)	1320	872	865	23.99	1000
	Thermal (Total)	8876	3885	3893	100.04	4168
	Total Hydro	550	143	144	3.85	160
	Wind power	4017	658	346	14.75	614
	Biomass	99	15	15	0.37	15
	Solar	1295	0	0	2.84	118
	Renewable/Others (Total)	5411	673	361	17.95	748
Total Rajasthan	14837	4701	4398	121.83	5076	
UP	Anpara TPS (3*210+2*500)	1630	1071	1062	29.70	1238
	Obra TPS (2*50+2*94+5*200)	1194	553	545	13.60	567
	Paricha TPS (2*110+2*220+2*250)	1160	0	156	1.20	50
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	166	158	3.80	158
	Tanda TPS (NTPC) (4*110)	440	270	280	6.60	275
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	837	862	23.30	971
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	722	688	18.10	754
	Lalitpur TPS(3*660)	1980	719	382	15.30	638
	Bara(2*660)	1320	728	723	16.10	671
	Thermal (Total)	12449	5066	4856	127.70	5321
	Vishnuparyag HPS (IPP)(4*110)	440	58	58	1.50	63
	Alaknada(4*82.5)	330	85	0	1.00	42
	Other Hydro	527	138	11	1.10	46
	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	6197	5775	151.70	6321
	Uttarakhand	Other Hydro	1250	592	245	6.39
Total Gas		225	293	304	7.08	295
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.00	0
Small Hydro (< 25 MW)		180	0	0	0.19	8
Renewable(Total)		327	0	0	0.19	8
Total Uttarakhand		1802	885	549	13.66	569
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	35	0.88	37
	Pragati Gas Turbine (2x104+ 1x122)	330	0	0	-0.01	-1
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	250	6.30	262
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	286	285	7.16	298
	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	286	285	7.16	298
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.78	33
	Malana HPS (IPP) (2*43)	86	0	0	0.19	8
	Other Hydro	372	45	17	1.89	79
	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	122	55	2.19	91
	Renewable(Total)	486	122	55	2.19	91
	Total HP	1244	168	72	5.05	211
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	294	146	4.39	183
	Other Hydro/IPP(including 98 MW Small Hydro)	308	136	120	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	430	266	7	302	

Total State Control Area Generation	50078	14689	12408	351.00	14625
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7767	7518	198.52	8272
Total Regional Availability(Gross)	75315	40569	27428	815.31	33971

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8893	1320	76.03	3168
State Control Area Hydro	7163	2207	1330	35.23	1771
Total Regional Hydro	19397	11100	2651	111.25	4938

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.00	0
State Control Area Renewable	7356	795	416	20.59	858
Total Regional Renewable	7386	795	416	20.59	858

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)	-100	500	100	500	0.23	7.95	-7.72
765 KV Gwalior-Agra (D/C)	2532	1458	2770	0	55.74	0.00	55.74
400 KV Zerda-Kankroli	-151	-182	0	207	0.00	3.75	-3.75
400 KV Zerda-Bhimnal	-53	-111	22	218	0.00	1.98	-1.98
220 KV Auraiya-Malanpur	-102	-73	0	105	0.00	1.81	-1.81
220 KV Badod-Kota/Morak	-1	69	99	28	0.80	0.00	0.80
Mundra-Mohinderghar(HVDC Bipole)	2003	1599	2506	0.00	48.10	0.00	48.10
400 KV RAPPCC-Sujalpur	366	120	367	0	5.01	0.00	5.01
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1141	987	1400	0	27.98	0.00	27.98
+/- 800 kV HVDC Champa-Kurushetra	0	1000	1500	0	17.44	0.00	17.44
Sub Total WR	5635	5367			155.29	15.49	139.80
400 kV Sasaram - Varanasi	316	282	316	0	10.77	0.00	10.77
400 kV Sasaram - Allahabad	107	107	127	0	2.48	0.00	2.48
400 KV MZP- GKP (D/C)	37	125	309	93	2.66	0.00	2.66
400 KV Patna-Balia(D/C) X 2	551	614	797	0	15.79	0.00	15.79
400 KV B'Sharif-Balia (D/C)	40	68	191	0	2.30	0.00	2.30
765 KV Gaya-Balia	285	196	309	0	6.31	0.00	6.31
765 KV Gaya-Varanasi (D/C)	347	263	585	0	8.90	0.00	8.90
220 KV Pusauli-Sahupuri	97	156	190	0	3.60	0.00	3.60
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-20	-21	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	-234	-216	0	234	0.00	3.67	-3.67
400 KV Barh -GKP (D/C)	554	496	548	0	11.63	0.00	11.63
400 kV B'Sharif - Varanasi (D/C)	52	81	161	32	0.00	1.45	-1.45
Sub Total ER	2132	2151			64.43	5.71	58.72
+/- 800 KV HVDC BiswanathChariali-Agra	0	0	0	0.00	0.00	0.00	0.00
Sub Total NER	0	0			0.00	0.00	0.00
Total IR Exch	7767	7518			219.72	21.20	198.52

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
45.72	0.71	46.43	-2.90	-0.39	10.64	4.33	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
54.17	139.05	193.22	58.72	139.80	198.52	4.55	0.76	5.31

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	-36	-31	0	37	0	1	-0.84

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	0.47	7.73	64.04	80.60	10.02	2.09	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.18	17.04	49.74	9.09	49.98	0.039	0.059	50.07	49.85	19.40

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	408	3:55	401	6:27	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	3:28	406	19:08	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	3:54	402	9:07	0.0	0.0	0.6	0.0	0.6
Kanpur	400	420	3:57	404	9:08	0.0	0.0	0.0	0.0	0.0
Dadri	400	430	2:33	408	9:11	0.0	0.0	26.9	0.0	26.9
Ballabgarh	400	427	3:56	406	9:07	0.0	0.0	20.4	0.0	20.4
Bawana	400	429	3:28	410	6:26	0.0	0.0	26.8	0.0	26.8
Bassi	400	425	4:00	400	9:07	0.0	0.0	13.4	0.0	13.4
Hissar	400	422	0:28	402	7:13	0.0	0.0	5.8	0.0	5.8
Moga	400	425	3:55	404	7:15	0.0	0.0	19.2	0.0	19.2
Abdullapur	400	431	2:33	408	6:25	0.0	0.0	34.9	0.0	34.9
Nalagarh	400	432	2:41	414	7:17	0.0	0.0	59.7	4.5	59.7
Kishenpur	400	420	3:01	398	7:17	0.0	0.0	0.0	0.0	0.0
Wagoora	400	393	13:01	370	7:08	33.5	95.6	0.0	0.0	33.5
Amritsar	400	430	3:55	408	7:14	0.0	0.0	38.4	0.0	38.4
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	426	3:56	404	9:07	0.0	0.0	20.4	0.0	20.4

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	782	0:00	750	6:22	0.0	0.0	0.0	0.0	0.0
Balia	765	790	3:54	765	9:09	0.0	0.0	0.0	0.0	0.0

Moga	765	803	21:59	778	12:13	0.0	0.0	0.6	0.0	0.6
Agra	765	793	0:17	759	9:10	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	814	3:55	775	9:09	0.0	0.0	22.3	0.0	22.3
Unnao	765	780	1:43	742	9:08	0.0	0.0	0.0	0.0	0.0
Lucknow	765	796	3:58	765	9:09	0.0	0.0	0.0	0.0	0.0
Meerut	765	809	21:57	766	6:28	0.0	0.0	23.7	0.0	23.7
Jhatikara	765	813	3:56	775	9:07	0.0	0.0	21.0	0.0	21.0
Bareilly 765 kV	765	802	3:57	767	9:07	0.0	0.0	0.6	0.0	0.6
Anta	765	798	3:24	772	9:05	0.0	0.0	0.0	0.0	0.0
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	468.97	252.64	482.67	527.87	172.42	393.69
Pong	426.72	384.05	397.69	174.24	397.35	168.56	55.33	258.90
Tehri	829.79	740.04	771.80	218.97	763.15	145.79	39.03	214.00
Koteshwar	612.50	598.50	609.66	4.44	611.39	5.20	214.00	214.74
Chamera-I	760.00	748.75	757.47	0.00	0.00	0.00	75.53	76.41
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	505.00	2.50	498.07	0.00	89.81	93.31

* 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	-57	-202	0	-57	0	0	-3.09	-1.74	-4.83
Delhi	-387	-457	0	-279	112	0	-6.74	0.24	-6.49
Haryana	-515	302	0	-221	344	0	-7.61	7.47	-0.14
HP	272	73	0	150	-211	0	8.99	-1.01	7.98
J&K	274	99	0	258	74	0	6.50	2.00	8.50
CHD	0	-20	0	0	-30	0	0.00	-0.34	-0.34
Rajasthan	32	394	0	24	427	0	0.62	6.74	7.36
UP	107	0	0	26	-100	0	-1.34	-1.71	-3.05
Uttarakhand	73	27	0	0	173	0	1.54	4.86	6.40
Total	-200	216	0	-100	789	0	-1.13	16.52	15.39

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-57	-282	0	-202	0	0
Delhi	-171	-395	424	-457	0	0
Haryana	-90	-515	356	-2	0	0
HP	627	150	79	-401	0	0
J&K	274	258	248	-278	0	0
CHD	0	0	10	-66	0	0
Rajasthan	44	16	427	-322	0	0
UP	164	-252	0	-100	0	0
Uttarakhand	104	0	373	27	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%
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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	1	21
Haryana	3	25
Rajasthan	0	10
Delhi	4	27
UP	1	23
Uttarakhand	1	14
HP	4	28
J & K	3	30
Chandigarh	3	35

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 15.03.2017 :

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 : 15.03.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER