

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 21.03.2017

Date of Reporting : 22.03.2017



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
37914	650	38565	49.92	31246	413	31659	49.99	850.68	12.58

* 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	41.97	9.39	0.31	51.67	58.75	59.47	0.72	111.14	0.00
Haryana	14.26	0.41	0.00	14.67	103.38	103.65	0.28	118.32	0.00
Rajasthan	104.74	1.89	15.33	121.96	53.05	52.56	-0.49	174.52	0.00
Delhi	11.10		0.00	11.10	51.16	51.13	-0.02	62.23	0.00
UP	169.86	5.38	0.00	175.24	106.59	107.72	1.13	282.95	0.00
Uttarakhand		6.86	0.00	9.67	21.12	21.72	0.60	31.39	2.10
HP		5.65	2.40	5.65	17.33	19.27	1.94	24.92	0.00
J & K		8.91	0.00	8.91	34.53	33.04	-1.49	41.95	10.48
Chandigarh				0.00	3.34	3.26	-0.08	3.26	0.00
Total	341.94	38.47	18.04	398.85	449.25	451.83	2.59	850.68	12.58

* 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	5592	0	98	-126	3701	0	-25	-126	5697	20:00	0
Haryana	5674	0	-8	194	3491	0	-32	-11	6028	7:00	0
Rajasthan	6851	0	26	1	6745	0	97	167	8327	8:00	0
Delhi	2971	0	-167	-265	1741	0	53	-702	3283	11:00	0
UP	11878	160	-90	18	11987	0	-75	62	13243	7:00	0
Uttarakhand	1735	0	173	127	1118	0	11	182	1744	20:00	0
HP	1076	0	29	-77	727	0	25	245	1376	8:00	0
J&K	1961	490	-75	333	1650	413	-27	454	1983	7:00	496
Chandigarh	177	0	-8	-20	85	0	9	-20	179	8:00	0
Total	37914	650	-21	185	31246	413	36	-252	39472	20:00	479

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

Diversity is 1.06

III. Regional Entities :

UI [OD:(+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	
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1860	2011	2017	44.69	1862	44.52	0.17
Rihand I STPS (2*500)	1000	923	984	987	21.74	906	22.02	-0.28
Rihand II STPS (2*500)	1000	956	1025	1034	23.09	962	22.92	0.17
Rihand III STPS (2*500)	1000	960	1002	1025	22.98	957	22.69	0.29
Dadri I STPS (4*210)	840	815	156	179	4.07	170	4.24	-0.17
Dadri II STPS (2*490)	980	980	497	391	10.33	430	10.81	-0.48
Unchahar I TPS (2*210)	420	407	378	435	8.44	352	8.78	-0.35
Unchahar II TPS (2*210)	420	405	353	306	7.88	328	8.03	-0.15
Unchahar III TPS (1*210)	210	203	205	150	3.93	164	3.99	-0.06
ISTPP (Jhajihar) (3*500)	1500	1440	832	642	18.63	776	18.97	-0.34
Dadri GPS (4*130.19+2*154.51)	830	407	354	248	6.98	291	7.21	-0.23
Anta GPS (3*88.71+1*153.2)	419	262	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	644	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.02	1	0.03	0.00
Unchahar Solar(10)	10	2	0	0	0.05	2	0.05	0.00
Singrauli Solar(15)	15	0	0	0	0.00	0	0.00	0.00
KHEP(4*200)	800	872	875	0	2.65	110	2.62	0.03
Sub Total (A)	12112	11137	8672	7414	175	7311	177	-1.40
B. NPC								
NAPS (2*220)	440	410	434	449	9.69	404	9.84	-0.15
RAPS- B (2*220)	440	380	419	423	9.06	377	9.12	-0.06
RAPS- C (2*220)	440	216	233	236	4.79	199	5.19	-0.40
Sub Total (B)	1320	1006	1086	1108	23.54	981	24.15	-0.61
C. NHPC								
Chamera I HPS (3*180)	540	548	563	0	3.23	135	3.00	0.23
Chamera II HPS (3*100)	300	301	313	0	1.64	68	1.45	0.19
Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00
Bairasuli HPS(3*60)	180	179	184	0	1.99	83	1.85	0.14
Salal-HPS (6*115)	690	254	367	335	6.96	290	6.11	0.85
Tanakpur-HPS (3*31.4)	94	18	30	18	0.48	20	0.44	0.04
Uri-I HPS (4*120)	480	374	469	360	9.68	403	8.98	0.71
Uri-II HPS (4*60)	240	220	249	210	5.44	227	5.28	0.16
Dhauliganga-HPS (4*70)	280	276	214	0	0.70	29	0.63	0.07
Dulhasti-HPS (3*130)	390	387	404	0	2.71	113	2.50	0.21
Sewa-II HPS (3*40)	120	119	128	0	2.31	96	2.20	0.11
Parbati 3 (4*130)	520	130	133	0	0.41	17	0.39	0.02
Sub Total (C)	4065	2808	3053	923	36	1481	33	2.72
D.SJVNL								
NJPC (6*250)	1500	1605	1607	0	6.23	260	6.00	0.23
Rampur HEP (6*88.67)	412	375	374	0	1.66	69	1.61	0.05
Sub Total (D)	1912	1980	1981	0	7.89	329	7.61	0.28
E. THDC								
Tehri HPS (4*250)	1000	728	710	0	6.66	278	6.70	-0.04
Koteshwar HPS (4*100)	400	125	299	91	3.05	127	3.00	0.05
Sub Total (E)	1400	853	1009	91	9.71	405	9.70	0.01
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	453	922	342	11.29	470	10.88	0.41
Dehar HPS (6*165)	990	163	495	0	4.00	167	3.92	0.08
Pong HPS (6*66)	396	150	275	0	3.57	149	3.61	-0.04
Sub Total (F)	2765	767	1692	342	18.86	786	18.41	0.45
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.37	15	0.33	0.04
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	585	0	3.31	138	3.32	0.00
Malana Stg-II HPS (2*50)	100	0	0	0	0.22	9	0.20	0.01
Shree Cement TPS (2*150)	300	0	148	149	3.45	144	3.65	-0.20
Budhil HPS(IPP) (2*35)	70	0	0	0	0.19	8	0.19	0.00
Sub Total (G)	1662	0	733	149	7.54	314	7.69	-0.15
H. Total Regional Entities (A-G)	25237	18551	18226	10027	278.56	11607	277.26	1.30

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

	Rajpura (2*700)	1400	1320	1120	30.33	1264
	Talwandi Saboo (3*660)	1980	600	308	11.87	495
	Thermal (Total)	6560	1920	1428	41.97	1749
	Total Hydro	1000	425	228	9.39	391
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.24	10
	Solar	560	0	0	0.08	3
	Renewable(Total)	848	0	0	0.31	13
	Total Punjab	8408	2345	1656	51.67	2153
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	411	198	10.10	421
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	196	168	4.16	173
	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	607	366	14.26	594
	Total Hydro	62	14	12	0.41	17
	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	621	378	14.67	611
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	151	151	3.75	156
	suratgarh TPS (6*250)	1500	179	176	4.55	189
	Chabra TPS (4*250)	1000	772	767	19.02	793
	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	171	162	4.19	174
	RAPS A (NPC) (1*100+1*200)	300	194	194	4.22	176
	Barsingar (NLC) (2*125)	250	210	214	4.97	207
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	654	475	15.39	641
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	867	827	21.20	883
	Kawai(Adani) (2*660)	1320	1128	1074	27.46	1144
	Thermal (Total)	8876	4326	4040	104.74	4364
	Total Hydro	550	88	69	1.89	79
	Wind power	4017	414	466	12.05	502
	Biomass	99	24	24	0.59	24
	Solar	1295	0	0	2.69	112
	Renewable/Others (Total)	5411	438	490	15.33	639
Total Rajasthan	14837	4852	4599	121.96	5082	
UP	Anpara TPS (3*210+2*500)	1630	1420	1396	33.52	1397
	Obra TPS (2*50+2*94+5*200)	1194	608	576	14.55	606
	Paricha TPS (2*110+2*220+2*250)	1160	496	628	13.72	572
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	160	220	4.74	198
	Tanda TPS (NTPC) (4*110)	440	396	392	9.09	379
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	540	540	12.92	539
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	83	861	19.75	823
	Lalitpur TPS(3*660)	1980	942	1195	27.29	1137
	Bara(2*660)	1320	586	576	13.89	579
	Thermal (Total)	12449	5231	6384	149.46	6228
	Vishnuparyag HPS (IPP)(4*110)	440	63	58	1.52	63
	Alakanada(4*82.5)	330	84	0	0.96	40
	Other Hydro	527	20	205	2.89	121
	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	6248	7497	175.24	7302	
Uttarakhand	Other Hydro	1250	435	232	6.86	286
	Total Gas	225	129	99	2.57	107
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.24	10
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.24	10
Total Uttarakhand	1802	564	331	9.67	403	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	76	37	1.49	62
	Pragati Gas Turbine (2x104+ 1x122)	330	151	154	3.73	156
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	250	6.08	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	-3	-3	-0.20	-8
	Thermal (Total)	2917	476	438	11.10	462
	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	476	438	11.10	462	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.82	34
	Malana HPS (IPP) (2*43)	86	0	3	0.25	10
	Other Hydro	372	102	59	2.18	91
	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	114	78	2.40	100
	Renewable(Total)	486	114	78	2.40	100
	Total HP	1244	216	140	5.65	235
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	295	296	6.05
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	431	416	9	371	

Total State Control Area Generation	50078	15753	15455	398.85	16619
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6904	6723	188.66	7861
Total Regional Availability(Gross)	75315	40882	32205	866.07	36086

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9195	1356	78.55	3273
State Control Area Hydro	7163	1905	1459	38.47	1720
Total Regional Hydro	19397	11100	2814	117.02	4993

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.07	3
State Control Area Renewable	7356	552	568	18.28	762
Total Regional Renewable	7386	552	568	18.35	765

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)	-400	-400	0	400	0.00	9.51	-9.51
765 KV Gwalior-Agra (D/C)	2131	1850	1838	0	54.29	0.00	54.29
400 KV Zerda-Kankroli	-158	-279	0	292	0.00	4.36	-4.36
400 KV Zerda-Bhimnal	-114	-258	0	281	0.00	3.41	-3.41
220 KV Auraiya-Malanpur	-17	-91	0	91	0.00	0.80	-0.80
220 KV Badod-Kota/Morak	7	-35	47	31	0.65	0.00	0.65
Mundra-Mohinderghar(HVDC Bipole)	1802	2199	2505	0.00	45.64	0.00	45.64
400 KV RAPP-Subalpur	350	210	420	0	7.98	0.00	7.98
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1096	1005	741	0	28.67	0.00	28.67
+/- 800 kV HVDC Champa-Kurushetra	0	600	740	0	8.52	0.00	8.52
Sub Total WR	4697	4801			145.76	18.08	127.68
400 kV Sasaram - Varanasi	277	282	291	0	6.71	0.00	6.71
400 kV Sasaram - Allahabad	110	104	128	0	2.55	0.00	2.55
400 KV MZP- GKP (D/C)	198	162	480	0	6.18	0.00	6.18
400 KV Patna-Balia(D/C) X 2	784	638	954	0	18.56	0.00	18.56
400 KV B'Sharif-Balia (D/C)	86	85	233	0	3.50	0.00	3.50
765 KV Gaya-Balia	264	212	326	0	6.54	0.00	6.54
765 KV Gaya-Varanasi (D/C)	472	361	719	0	12.72	0.00	12.72
220 KV Pusauli-Sahupuri	209	190	209	0	4.00	0.00	4.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-17	-24	0	28	0.00	0.53	-0.53
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-209	-137	59	209	0.00	1.69	-1.69
400 KV Barh -GKP (D/C)	506	498	588	0	12.13	0.00	12.13
400 kV B'Sharif - Varanasi (D/C)	27	51	135	68	0.73	0.00	0.73
Sub Total ER	2707	2422			73.61	2.22	71.39
+/- 800 KV HVDC BiswanathChariali-Agra	-500	-500	0	500.00	0.00	10.40	-10.40
Sub Total NER	-500	-500			0.00	10.40	-10.40
Total IR Exch	6904	6723			219.36	30.70	188.66

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
50.79	0.25	51.04	-2.34	-0.51	9.57	0.84	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
58.27	135.40	193.66	60.99	127.68	188.66	2.72	-7.72	-5.00

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	-37	-37	0	39	0	1	-0.88

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	1.35	16.05	70.88	72.21	9.68	1.99	0.08	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)		
50.23	18.01	49.75	22.13	49.97	0.060	0.069	50.04	49.85	27.79

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	405	0:00	401	15:08	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	0:00	402	10:58	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	416	20:00	392	14:14	0.0	0.0	0.0	0.0	0.0
Kanpur	400	414	2:14	400	10:37	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	2:58	403	10:41	0.1	0.1	11.0	0.0	11.0
Ballabgarh	400	423	2:59	401	10:36	0.0	0.0	7.8	0.0	7.8
Bawana	400	425	3:03	403	11:08	0.0	0.0	18.7	0.0	18.7
Bassi	400	423	4:01	401	10:38	0.0	0.0	3.2	0.0	3.2
Hissar	400	421	3:29	399	12:16	0.0	0.0	0.1	0.0	0.1
Moga	400	420	3:29	402	10:42	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	2:59	407	12:20	0.0	0.0	26.7	0.0	26.7
Nalagarh	400	428	2:59	411	12:19	0.0	0.0	29.8	0.0	29.8
Kishenpur	400	414	2:58	398	19:13	0.0	0.0	0.0	0.0	0.0
Wagoora	400	398	13:01	374	19:06	27.5	75.4	0.0	0.0	27.5
Amritsar	400	424	20:52	406	10:13	0.0	0.0	3.4	0.0	3.4
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	416	17:16	409	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	419	2:14	397	13:42	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)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	773	0:00	744	10:41	0.0	0.0	0.0	0.0	0.0
Balia	765	782	0:00	758	10:37	0.0	0.0	0.0	0.0	0.0

Moga	765	800	20:11	767	14:14	0.0	0.0	0.0	0.0	0.0
Agra	765	787	19:59	758	10:37	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	2:59	768	14:14	0.0	0.0	9.8	0.0	9.8
Unnao	765	769	2:17	745	14:13	0.0	0.0	0.0	0.0	0.0
Lucknow	765	784	19:56	754	14:12	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	20:13	764	6:21	0.0	0.0	6.5	0.0	6.5
Jhatikara	765	805	3:03	766	10:41	0.0	0.0	7.1	0.0	7.1
Bareilly 765 kV	765	791	20:00	749	14:14	0.0	0.0	0.0	0.0	0.0
Anta	765	793	2:59	769	11:23	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	466.56	217.22	481.98	503.43	143.59	418.66
Pong	426.72	384.05	396.80	157.28	396.86	157.28	43.81	271.81
Tehri	829.79	740.04	768.25	194.88	759.85	119.57	40.94	196.00
Koteshwar	612.50	598.50	610.60	4.69	610.85	4.95	196.00	200.62
Chamera-I	760.00	748.75	757.47	0.00	0.00	0.00	90.88	87.37
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	504.45	2.79	497.78	4.28	86.45	128.14

* 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	-126	0	0	-126	0	0	-1.89	-0.36	-2.25
Delhi	-482	-219	0	-260	-5	0	-7.49	-0.23	-7.72
Haryana	-189	178	0	-137	331	0	-3.41	7.27	3.86
HP	235	11	0	132	-209	0	4.58	-0.84	3.74
J&K	158	297	0	174	159	0	4.01	6.18	10.19
CHD	0	-20	0	0	-20	0	0.00	-0.34	-0.34
Rajasthan	24	143	0	6	-5	0	0.54	0.30	0.84
UP	110	-47	0	118	-100	0	1.63	-1.61	0.03
Uttarakhand	73	109	0	0	127	0	1.63	2.21	3.85
Total	-198	451	0	-93	278	0	-0.38	12.59	12.20

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	0	-202	0	-404	0	0
Delhi	-172	-489	301	-352	0	0
Haryana	77	-206	377	-39	0	0
HP	271	10	258	-400	0	0
J&K	174	158	406	35	0	0
CHD	0	0	20	-66	0	0
Rajasthan	31	-8	292	-1166	0	0
UP	162	-15	-47	-100	0	0
Uttarakhand	104	0	238	4	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	2.08%
Simultaneous	0.35%

(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	0	8
Haryana	1	13
Rajasthan	3	16
Delhi	3	19
UP	1	21
Uttarakhand	3	25
HP	6	41
J & K	4	31
Chandigarh	5	29

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 21.03.2017 :

XVI. Synchronisation of new generating units :

2.400/220 kV,500MVA ICT-3 , at Rajpura first time charged from on no load at 19.28 Hrs.

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

1.400/220 kV.315 MVA , ICT-1 at Sohawal (PG) first time charged from 220 KV side and taken on load at 16.56 Hrs.

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 : 21.03.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER