पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 20.03.2017

Date of Reporting : 21.03.2017

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
37193	658	37851	49.89	30300	405	30705	49.97	830.24	10.82

* 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	37.14	9.59	0.33	47.06	61.11	61.90	0.80	108.97	0.00
Haryana	10.10	0.37	0.00	10.46	102.75	103.38	0.63	113.85	0.00
Rajasthan	105.07	1.58	2.98	109.62	60.88	60.32	-0.56	169.94	0.00
Delhi	11.30		0.00	11.30	50.39	49.94	-0.45	61.24	0.09
UP	157.26	6.83	0.00	164.09	106.46	108.09	1.64	272.19	0.24
Uttarakhand		6.57	0.00	13.14	19.25	19.03	-0.22	32.16	0.00
HP		7.96	2.29	7.96	17.04	18.75	1.71	26.71	0.00
J & K		8.03	0.00	8.03	34.06	33.94	-0.12	41.97	10.49
Chandigarh				0.00	3.38	3.22	-0.16	3.22	0.00
Total	**320.87**	**40.93**	**5.60**	**371.67**	**455.31**	**458.57**	**3.26**	**830.24**	10.82

* 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	5677	0	47	-202	3634	0	62	-51	5677	20:00	0
Haryana	5582	0	-74	196	3104	0	187	-679	5813	20:00	0
Rajasthan	6683	0	103	411	6793	0	-18	447	8134	8:00	0
Delhi	2848	0	-226	-331	1676	0	-5	-733	3236	11:00	0
UP	11534	170	-57	58	11624	0	270	73	12738	7:00	0
Uttarakhand	1682	0	187	152	1085	0	-74	128	1728	8:00	0
HP	1064	0	23	-99	682	0	19	284	1361	8:00	0
J&K	1951	488	97	333	1622	405	1	471	1962	20:00	491
Chandigarh	172	0	-6	-25	80	0	1	-15	181	9:00	0
Total	**37193**	**658**	**94**	**493**	**30300**	**405**	**443**	**-77**	**39007**	**20:00**	**491**

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

Diversity is 1.05

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	1370	1495	1486	33.83	1410	32.89	0.94
	Rihand I STPS (2*500)	1000	923	924	996	21.73	905	21.95	-0.22
	Rihand II STPS (2*500)	1000	956	1005	1025	23.10	962	22.87	0.23
	Rihand III STPS (2*500)	1000	960	914	1038	22.92	955	22.71	0.21
	Dadri I STPS (4*210)	840	815	158	197	4.08	170	4.38	-0.30
	Dadri II STPS (2*490)	980	980	486	394	10.47	436	11.16	-0.69
	Unchahar I TPS (2*210)	420	407	327	352	7.66	319	7.94	-0.28
	Unchahar II TPS (2*210)	420	405	330	311	7.37	307	7.52	-0.16
	Unchahar III TPS (1*210)	210	203	160	155	3.67	153	3.80	-0.13
	ISTPP (Jhajjhar) (3*500)	1500	1440	998	652	19.42	809	19.84	-0.42
	Dadri GPS (4*130.19+2*154.51)	830	407	342	285	7.63	318	8.11	-0.48
	Anta GPS (3*88.71+1*153.2)	419	262	0	0	0.00	0	0.01	-0.01
	Auraiya GPS (4*111.19+2*109.30)	663	643	0	0	0.00	0	0.02	-0.02
	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	877	0	2.66	111	2.62	0.05
	Sub Total (A)	**12112**	**10647**	**8016**	**6891**	**165**	**6859**	**166**	**-1.28**
B. NPC	NAPS (2*220)	440	410	442	444	9.69	404	9.84	-0.15
	RAPS- B (2*220)	440	380	424	428	9.10	379	9.12	-0.02
	RAPS- C (2*220)	440	387	235	438	8.08	337	9.28	-1.20
	Sub Total (B)	**1320**	**1177**	**1101**	**1310**	**26.86**	**1119**	**28.24**	**-1.38**
C. NHPC	Chamera I HPS (3*180)	540	540	560	0	2.69	112	2.50	0.19
	Chamera II HPS (3*100)	300	301	310	0	1.47	61	1.35	0.12
	Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00
	Bairasuil HPS(3*60)	180	179	183	0	1.78	74	1.67	0.12
	Salal-HPS (6*115)	690	178	345	217	5.36	223	4.28	1.09
	Tanakpur-HPS (3*31.4)	94	20	30	20	0.49	21	0.47	0.02
	Uri-I HPS (4*120)	480	392	415	398	9.98	416	9.40	0.58
	Uri-II HPS (4*60)	240	224	245	241	5.54	231	5.36	0.17
	Dhauliganga-HPS (4*70)	280	195	209	0	0.78	32	0.70	0.08
	Dulhasti-HPS (3*130)	390	387	403	0	2.71	113	2.50	0.21
	Sewa-II HPS (3*40)	120	119	127	0	2.29	95	2.20	0.09
	Parbati 3 (4*130)	520	130	132	0	0.42	17	0.39	0.03
	Sub Total (C)	**4065**	**2664**	**2959**	**876**	**34**	**1396**	**31**	**2.69**
D.SJVNL	NJPC (6*250)	1500	1605	1618	0	6.01	250	6.00	0.01
	Rampur HEP (6*68.67)	412	375	378	0	1.61	67	1.61	0.00
	Sub Total (D)	**1912**	**1980**	**1996**	**0**	**7.62**	**317**	**7.61**	**0.01**
E. THDC	Tehri HPS (4*250)	1000	732	722	0	6.82	284	6.80	0.02
	Koteshwar HPS (4*100)	400	121	298	93	2.97	124	2.90	0.07
	Sub Total (E)	**1400**	**853**	**1020**	**93**	**9.79**	**408**	**9.70**	**0.09**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	494	1027	370	12.20	508	11.86	0.34
	Dehar HPS (6*165)	990	171	330	0	4.14	173	4.11	0.03
	Pong HPS (6*66)	396	139	275	0	3.32	138	3.34	-0.03
	Sub Total (F)	**2765**	**805**	**1632**	**370**	**19.66**	**819**	**19.32**	**0.34**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.34	14	0.32	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	585	0	3.37	140	3.32	0.05
	Malana Stg-II HPS (2*50)	100	0	0	0	0.19	8	0.18	0.01
	Shree Cement TPS (2*150)	300	0	144	84	3.14	131	3.18	-0.04
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.15	6	0.15	0.00
	Sub Total (G)	**1662**	**0**	**729**	**84**	**7.19**	**300**	**7.15**	**0.04**
H. Total Regional Entities (A-G)		**25237**	**18125**	**17453**	**9623**	**269.23**	**11218**	**268.72**	**0.51**

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	-0.12	-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	-0.06	-3
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	1320	1120	30.36	1265
	Talwandi Saboo (3*660)	1980	614	0	7.00	292
	Thermal (Total)	**6560**	**1934**	**1120**	37.14	**1548**
	Total Hydro	1000	312	222	9.59	400
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.25	10
	Solar	560	0	0	0.08	3
	Renewable(Total)	**848**	**0**	**0**	**0.33**	**14**
	Total Punjab	**8408**	**2246**	**1342**	**47.06**	**1961**
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	279	205	6.03	251
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	166	158	4.07	170
	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**	**445**	**363**	**10.10**	**421**
	Total Hydro	62	11	10	0.37	15
	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**	**456**	**373**	**10.46**	**436**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	151	155	3.80	158
	suratgarh TPS (6*250)	1500	180	182	4.57	191
	Chabra TPS (4*250)	1000	737	808	19.45	810
	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	159	174	4.36	182
	RAPS A (NPC) (1*100+1*200)	300	194	194	4.19	175
	Barsingsar (NLC) (2*125)	250	212	213	4.99	208
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	387	434	14.14	589
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	831	826	21.78	908
	Kawai(Adani) (2*660)	1320	1093	1201	27.77	1157
	Thermal (Total)	**8876**	**3944**	**4187**	**105.07**	**4378**
	Total Hydro	550	54	89	1.58	66
	Wind power	4017	71	138	1.85	77
	Biomass	99	23	23	0.56	23
	Solar	1295	10	0	0.57	24
	Renewable/Others (Total)	5411	104	161	2.98	124
	Total Rajasthan	**14837**	**4102**	**4437**	**109.62**	**4568**
UP	Anpara TPS (3*210+2*500)	1630	1356	1428	33.90	1413
	Obra TPS (2*50+2*94+5*200)	1194	442	308	9.90	413
	Paricha TPS (2*110+2*220+2*250)	1160	208	224	6.60	275
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	154	221	4.90	204
	Tanda TPS (NTPC) (4*110)	440	377	378	9.06	378
	Roza TPS (IPP) (4*300)	1200	0	0	0.00	0
	Anpara-C (IPP) (2*600)	1200	543	495	12.60	525
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	1000	692	865	18.10	754
	Lalitpur TPS(3*660)	1980	1189	1184	27.90	1163
	Bara(2*660)	1320	583	581	13.90	579
	Thermal (Total)	**12449**	**5544**	**5684**	**136.86**	**5703**
	Vishnuparyag HPS (IPP)(4*110)	440	63	58	1.50	63
	Alaknanada(4*82.5)	330	84	0	2.43	101
	Other Hydro	527	58	205	2.90	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**	**6599**	**6797**	**164.09**	**6837**
Uttarakhand	Other Hydro	1250	365	253	6.57	274
	Total Gas	225	221	300	6.35	264
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.22	9
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.22	9
	Total Uttarakhand	1802	586	553	13.14	547
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	38	1.53	64
	Pragati Gas Turbine (2x104+ 1x122)	330	153	158	3.76	157
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	249	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	**2917**	**440**	**445**	**11.30**	**471**
	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**	**440**	**445**	**11.30**	**471**
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.05	44
	Malana HPS (IPP) (2*43)	86	0	0	0.25	10
	Other Hydro	372	193	112	4.37	182
	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	66	2.29	95
	Renewable(Total)	**486**	**122**	**66**	**2.29**	**95**
	Total HP	**1244**	**315**	**177**	**7.96**	**332**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	296	147	5.16	215
	Other Hydro/IPP(including 98 MW Small Hydro)	308	432	267	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**	**728**	**414**	**8**	**334**

Total State Control Area Generation	**50078**	**15472**	**14538**	**371.67**	**15486**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		**6768**	**7385**	**206.84**	**8619**
Total Regional Availability(Gross)	**75315**	**39693**	**31547**	**847.74**	**35323**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**9069**	**1338**	**77.13**	**3214**
State Control Area Hydro	**7163**	**2211**	**1728**	**40.93**	**1979**
Total Regional Hydro	**19397**	**11280**	**3067**	**118.06**	**5193**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.07**	**3**
State Control Area Renewable	**7356**	**226**	**227**	**5.82**	**242**
Total Regional Renewable	**7386**	**226**	**227**	**5.89**	**245**

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)	-50	-250	0	250	0.00	2.86	-2.86
765 KV Gwalior-Agra (D/C)	1067	2218	2132	0	58.55	0.00	58.55
400 KV Zerda-Kankroli	-170	-216	0	272	0.00	4.91	-4.91
400 KV Zerda-Bhinmal	-101	-125	6	227	0.00	2.93	-2.93
220 KV Auraiya-Malanpur	-59	-59	0	96	0.00	1.05	-1.05
220 KV Badod-Kota/Morak	24	-11	76	11	0.83	0.00	0.83
Mundra-Mohindergarh(HVDC Bipole)	2503	2003	2512	0.00	54.86	0.00	54.86
400 KV RAPPC-Sujalpur	460	260	510	0	8.37	0.00	8.37
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1004	1091	1451	0	29.76	0.00	29.76
+/- 800 kV HVDC Champa-Kurushetra	0	630	900	0	8.98	0.00	8.98
Sub Total WR	**4678**	**5541**			**161.34**	**11.75**	**149.59**
400 kV Sasaram - Varanasi	279	294	298	0	6.78	0.00	6.78
400 kV Sasaram - Allahabad	110	90	135	0	2.64	0.00	2.64
400 KV MZP- GKP (D/C)	235	171	467	0	5.68	0.00	5.68
400 KV Patna-Balia(D/C) X 2	690	632	915	0	17.62	0.00	17.62
400 KV B'Sharif-Balia (D/C)	90	75	248	0	3.36	0.00	3.36
765 KV Gaya-Balia	241	226	443	0	6.89	0.00	6.89
765 KV Gaya-Varanasi (D/C)	491	302	725	0	12.60	0.00	12.60
220 KV Pusauli-Sahupuri	215	174	215	0	3.95	0.00	3.95
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-25	-23	0	26	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-187	-171	32	220	0.00	1.97	-1.97
400 KV Barh -GKP (D/C)	476	490	556	0	11.65	0.00	11.65
400 kV B'Sharif - Varanasi (D/C)	-22	80	159	113	0.58	0.00	0.58
Sub Total ER	**2593**	**2340**			**71.74**	**2.51**	**69.23**
+/- 800 KV HVDC BiswanathCharialli-Agra	-503	-496	0	504.00	0.00	11.97	-11.97
Sub Total NER	**-503**	**-496**			**0.00**	**11.97**	**-11.97**
Total IR Exch	**6768**	**7385**			**233.08**	**26.23**	**206.84**

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
56.26	0.25	56.51	-2.35	-0.53	16.86	2.45	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
71.02	137.28	208.30	57.26	149.59	206.84	-13.76	12.30	-1.46

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	-35	-35	0	39	0	1	-0.87

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	0.64	14.14	61.83	73.09	10.79	2.05	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	18.03	49.73	18.18	49.97	0.052	0.068	50.06	49.84	26.91

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	406	0:00	402	9:22	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	16:34	403	9:19	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	20:54	395	11:51	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	20:52	404	9:17	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	3:33	401	12:00	0.0	0.0	20.0	0.0	20.0
Ballabhgarh	400	424	1:59	401	12:15	0.0	0.0	18.4	0.0	18.4
Bawana	400	428	3:33	402	11:54	0.0	0.0	22.3	0.0	22.3
Bassi	400	424	3:28	403	5:55	0.0	0.0	11.9	0.0	11.9
Hissar	400	424	3:33	397	11:52	0.0	0.0	9.0	0.0	9.0
Moga	400	424	3:33	400	11:54	0.0	0.0	10.9	0.0	10.9
Abdullapur	400	430	3:34	406	11:50	0.0	0.0	25.8	0.0	25.8
Nalagarh	400	432	21:16	410	11:50	0.0	0.0	34.5	0.4	34.5
Kishenpur	400	422	4:00	399	18:58	0.0	0.0	0.8	0.0	0.8
Wagoora	400	399	13:01	370	6:58	33.0	82.6	0.0	0.0	33.0
Amritsar	400	428	2:16	405	11:53	0.0	0.0	20.5	0.0	20.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	0:00	409	18:51	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	422	2:01	394	11:51	0.0	0.0	3.4	0.0	3.4

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	777	21:59	751	5:57	0.0	0.0	0.0	0.0	0.0
Balia	765	790	16:34	761	9:19	0.0	0.0	0.0	0.0	0.0

Moga	765	805	21:15	763	11:53	0.0	0.0	3.4	0.0	3.4
Agra	765	791	18:16	760	5:57	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	807	1:54	767	11:53	0.0	0.0	21.1	0.0	21.1
Unnao	765	776	20:53	751	9:19	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	20:54	761	9:18	0.0	0.0	0.0	0.0	0.0
Meerut	765	810	21:00	765	11:57	0.0	0.0	8.1	0.0	8.1
Jhatikara	765	808	2:02	766	11:56	0.0	0.0	18.6	0.0	18.6
Bareilly 765 kV	765	797	20:54	755	11:51	0.0	0.0	0.0	0.0	0.0
Anta	765	793	18:17	773	9:15	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. 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	466.96	221.60	153.70	482.09	153.70	445.31
Pong	426.72	384.05	396.97	157.28	41.60	396.93	41.60	249.24
Tehri	829.79	740.04	768.80	197.23	760.45	120.54	39.83	200.00
Koteshwar	612.50	598.50	610.71	4.95	610.88	4.95	200.00	195.95
Chamera-I	760.00	748.75	757.43	0.00	0.00	0.00	79.83	72.79
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	504.56	2.78	497.78	1.13	84.37	137.13

*** 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	-51	0	0	-101	-101	0	-2.54	-0.35	-2.89
Delhi	-530	-204	0	-277	-54	0	-7.92	-0.37	-8.29
Haryana	-205	-475	0	-137	332	0	-3.60	5.02	1.42
HP	210	73	0	107	-207	0	5.46	-0.41	5.05
J&K	174	297	0	174	159	0	4.18	5.94	10.12
CHD	0	-15	0	0	-25	0	0.00	-0.28	-0.28
Rajasthan	21	426	0	24	387	0	0.52	8.22	8.74
UP	73	0	0	106	-47	0	1.17	-0.90	0.27
Uttarakhand	73	55	0	53	99	0	1.78	4.25	6.03
Total	**-234**	**158**	**0**	**-50**	**543**	**0**	**-0.96**	**21.14**	**20.18**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	0	-303	0	-204	0	0
Delhi	-172	-535	349	-401	0	0
Haryana	61	-206	364	-476	0	0
HP	333	10	215	-405	0	0
J&K	174	174	382	49	0	0
CHD	0	0	15	-61	0	0
Rajasthan	32	14	426	-245	0	0
UP	156	-31	0	-47	0	0
Uttarakhand	104	38	452	45	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	**2.78%**
Simultaneous	**0.69%**

(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	3	17
Haryana	1	13
Rajasthan	4	28
Delhi	2	28
UP	1	14
Uttarakhand	3	14
HP	7	74
J & K	2	25
Chandigarh	3	37

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 20.03.2017 :

XVI. Synchronisation of new generating units :

1. Following bays first time charged at Sohawal (PG): Bay No. 207(Bus coupler) charged at 16:54 Hrs and Bay No.207 (Bus coupler) charged at 16:54 on 20-03-2017

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 : 20.03.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER