

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOH188682

Power Supply Position in Northern Region for 20.06.2017

Date of Reporting : 21.06.2017



I. Regional Availability/Demand:

Evening Peak (20:00 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
49313	602	49915	50.03	43031	259	43291	50.08	1061.21	9.59

* 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 MU's:

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	45.53	16.35	0.35	62.24	105.92	101.98	-3.94	164.22	0.00
Haryana	32.72	0.69	0.00	33.41	104.93	105.60	0.67	139.01	0.00
Rajasthan	89.68	0.00	46.38	136.06	70.76	74.18	3.42	210.23	0.00
Delhi	17.13		0.00	17.13	79.41	78.80	-0.61	95.92	0.05
UP	167.14	20.40	0.00	187.54	150.24	151.77	1.54	339.31	0.00
Uttarakhand		18.62	7.09	25.71	14.78	14.80	0.02	40.51	0.00
HP		17.47	5.98	23.45	0.68	3.19	2.51	26.63	0.00
J & K		25.98	0.00	25.98	14.86	14.30	-0.56	40.29	9.54
Chandigarh			0.00	0.00	6.03	5.08	-0.95	5.08	0.00
Total	352.20	99.52	59.79	511.51	547.60	549.69	2.09	1061.21	9.59

* Shortage furnished by the respective constituent \$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MW's:

State	Evening Peak (20:00 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	8694	0	-79	1383	5965	0	-274	1771	8694	20	0
Haryana	6999	0	196	927	5355	0	-49	977	7606	22	0
Rajasthan	8100	0	65	-18	8915	0	328	222	9278	1	0
Delhi	4159	0	38	608	4038	0	205	492	4644	24	0
UP	16272	90	112	1645	14469	0	-200	1836	17565	23	90
Uttarakhand	1784	0	80	-125	1681	0	-7	-230	1832	21	0
HP	1031	0	-37	-1457	944	0	57	-1348	1249	10	0
J&K	2048	512	115	-895	1470	259	-184	-824	2141	21	535
Chandigarh	227	0	-31	0	196	0	-47	0	239	16	0
Total	49313	602	459	2069	43031	259	-171	2894	51954	21	635

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

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III. Regional Entities :

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 [OG(+ve), UG: (-ve)]	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1780	1929	1500	34.85	1452	34.53		0.32
Rihand I STPS (2*500)	1000	923	997	747	18.51	771	18.36		0.14
Rihand II STPS (2*500)	1000	943	978	768	19.06	794	19.22		-0.17
Rihand III STPS (2*500)	1000	943	996	694	17.87	745	17.96		-0.09
Dadri I STPS (4*210)	840	769	186	355	5.84	243	5.79		0.05
Dadri II STPS (2*490)	980	929	627	550	12.96	540	13.18		-0.22
Unchahar I TPS (2*210)	420	350	225	225	5.26	219	5.30		-0.04
Unchahar II TPS (2*210)	420	383	226	239	5.12	214	5.24		-0.11
Unchahar III TPS (1*210)	210	192	116	115	2.56	107	2.60		-0.03
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00		0.00
ISTPP (Jhajhar) (3*500)	1500	1330	1296	829	20.26	844	20.41		-0.15
Dadri GPS (4*130.19+2*154.51)	830	760	372	225	5.65	235	5.71		-0.07
Anta GPS (3*88.71+1*153.2)	419	386	0	0	0.00	0	0.00		0.00
Auraiya GPS (4*111.19+2*109.30)	663	605	0	0	0.00	0	0.00		0.00
Dadri Solar(5)	5	1	0	0	0.00	0	0.02		-0.02
Unchahar Solar(10)	10	2	0	0	0.05	2	0.05		0.00
Singrauli Solar(15)	15	3	0	0	0.05	2	0.07		-0.01
KHEP(4*200)	800	792	727	801	18.98	791	18.64		0.34
Sub Total (A)	12612	11088	8675	7048	167	6959	167		-0.07
B. NPC									
NAPS (2*220)	440	386	426	433	9.29	387	9.26		0.03
RAPS- B (2*220)	440	369	395	406	8.58	358	8.80		-0.21
RAPS- C (2*220)	440	430	444	447	9.56	398	10.32		-0.76
Sub Total (B)	1320	1185	1265	1286	27.43	1143	28.38		-0.95
C. NHPC									
Chamera I HPS (3*180)	540	534	552	517	12.37	516	12.29		0.08
Chamera II HPS (3*100)	300	301	309	301	7.23	301	7.22		0.01
Chamera III HPS (3*77)	231	232	237	234	5.58	232	5.56		0.02
Bairasuli HPS(3*60)	180	179	182	64	2.76	64	2.68		0.08
Salal-HPS (6*115)	690	676	684	680	16.16	673	16.23		-0.07
Tanakpur-HPS (3*31.4)	94	62	63	49	1.48	62	1.48		0.00
Uri-I HPS (4*120)	480	474	480	480	11.64	485	11.38		0.26
Uri-II HPS (4*60)	240	239	244	244	5.82	243	5.72		0.10
Dhauliganga-HPS (4*70)	280	281	284	281	6.00	250	5.95		0.05
Dulhasti-HPS (3*130)	390	386	397	395	9.31	388	9.26		0.05
Sewa-II HPS (3*40)	120	119	127	75	1.15	48	1.10		0.05
Parbati 3 (4*130)	520	514	513	0	2.60	108	2.52		0.07
Sub Total (C)	4065	3996	4072	3320	82	3421	81		0.70
D.SJVNL									
NJPC (6*250)	1500	1482	1617	1513	36.89	1537	35.57		1.32
Rampur HEP (6*68.67)	412	408	429	422	10.21	426	9.79		0.42
Sub Total (D)	1912	1890	2046	1935	47.10	1962	45.36		1.74
E. THDC									
Tehri HPS (4*250)	1000	492	505	0	4.25	177	4.10		0.15
Koteshwar HPS (4*100)	400	91	102	91	2.16	90	2.17		0.00
Sub Total (E)	1400	583	607	91	6.42	267	6.27		0.15
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	938	1268	818	22.40	933	22.51		-0.11
Dehar HPS (6*165)	990	590	660	560	14.33	597	14.16		0.17
Pong HPS (6*66)	396	77	294	0	1.94	81	1.85		0.09
Sub Total (F)	2765	1605	2222	1378	38.66	1611	38.51		0.15
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	172	157	3.36	140	3.55		-0.20
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.09	1087	26.08		0.00
Malana Stg-II HPS (2*50)	100	0	111	80	1.81	75	1.70		0.11
Shree Cement TPS (2*150)	300	0	98	102	2.24	94	2.66		-0.42
Budhi HPS(IPP) (2*35)	70	0	73	73	0.17	7	1.67		-1.50
Sub Total (G)	1662	0	1555	1512	33.67	1403	35.67		-2.00
H. Total Regional Entities (A-G)	25737	20346	20441	16570	402.38	16766	402.67		-0.29

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	320	320	7.18	299
Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	190	2.72	113
Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	460	741	10.75	448
Goindwal(GVK) (2*270)	540	246	180	4.76	198
Rajpura (2*700)	1400	1320	660	20.82	868
Talwandi Saboo (3*660)	1980	0	0	-0.69	-29

	Thermal (Total)	6560	2436	2091	45.53	1897	
	Total Hydro	1000	751	609	16.35	681	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	0	0	0.29	12	
	Solar	560	0	0	0.07	3	
	Renewable(Total)	848	0	0	0.35	15	
	Total Punjab	8408	3187	2700	62.24	2593	
Haryana	Panipat TPS (2*210+2*250)	920	200	197	4.89	204	
	DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP) (2*600)	1200	740	767	18.30	763	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP) (2*660)	1320	376	374	9.53	397	
	Thermal (Total)	4497	1316	1338	32.72	1363	
	Total Hydro	62	33	23	0.69	29	
	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	1349	1361	33.41	1392	
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	305	477	9.22	384	
	suratgarh TPS (6*250)	1500	181	180	4.40	183	
	Chabra TPS (4*250)	1000	740	740	18.42	768	
	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	164	68	3.31	138	
	RAPS A (NPC) (1*100+1*200)	300	159	162	3.97	165	
	Barsingar (NLC) (2*125)	250	194	219	5.01	209	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwst LTPS (IPP) (8*135)	1080	490	498	13.65	569	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	822	833	19.78	824	
	Kawai(Adani) (2*660)	1320	445	447	11.92	497	
	Thermal (Total)	9536	3500	3624	89.68	3737	
	Total Hydro	550	0	0	0.00	0	
	Wind power	4017	1942	1763	44.17	1840	
	Biomass	99	21	21	0.49	21	
	Solar	1295	0	0	1.71	71	
	Renewable/Others (Total)	5411	1963	1784	46.38	1932	
	Total Rajasthan	15497	5463	5408	136.06	5669	
UP	Anpara TPS (3*210+2*500)	1630	923	747	21.50	896	
	Obra TPS (2*50+2*94+5*200)	1194	308	415	11.00	458	
	Paricha TPS (2*110+2*220+2*250)	1160	694	470	12.50	521	
	Panki TPS (2*105)	210	131	122	3.10	129	
	Harduaganj TPS (1*60+1*105+2*250)	665	534	388	10.00	417	
	Tanda TPS (NTPC) (4*110)	440	376	272	7.04	293	
	Roza TPS (IPP) (4*300)	1200	1054	933	19.50	813	
	Anpara-C (IPP) (2*600)	1200	1107	743	21.00	875	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	310	247	5.80	242	
	Anpara-D(2*500)	1000	886	881	19.90	829	
	Lalitpur TPS(3*660)	1980	1232	754	22.00	917	
	Bara(2*660)	1320	609	385	11.40	475	
	Thermal (Total)	12449	8164	6357	164.74	6864	
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.50	438	
	Alaknanda(4*82.5)	330	234	242	6.00	250	
	Other Hydro	527	48	250	3.90	163	
	Cogeneration	981	100	100	2.40	100	
	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	8981	7384	187.54	7814		
Uttarakhand	Other Hydro	1250	784	742	18.62	776	
	Total Gas	225	282	290	6.76	282	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	20	0	0	0.33	14	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	327	0	0	0.33	14	
	Total Uttarakhand	1802	1066	1032	25.71	1071	
	Delhi	Raighat TPS (2*67.5)	135	0	0	-0.01	0
		Delhi Gas Turbine (6x30 + 3x34)	282	36	75	1.53	64
Pragati Gas Turbine (2x104+ 1x122)		330	-3	151	1.68	70	
Rithala GPS (3*36)		95	0	0	0.00	0	
Bawana GPS (4*216+2*253)		1370	250	250	6.03	251	
Badarpur TPS (NTPC) (3*95+2*210)		705	332	329	7.90	329	
Thermal (Total)		2917	615	805	17.13	714	
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	615	805	17.13	714		
HP	Baspa HPS (IPP) (3*100)	300	327	327	7.84	327	
	Malana HPS (IPP) (2*43)	86	87	70	1.39	58	
	Other Hydro (>25MW)	372	335	352	8.24	343	
	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	275	271	5.98	249	
	Renewable(Total)	486	275	271	5.98	249	
	Total HP	1244	1023	1020	23.45	977	
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	882	882	21.17	882
Other Hydro/IPP(including 98 MW Small Hydro)		308	200	200	4.81	201	
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	1082	1082	26	1083	
Total State Control Area Generation		50738	22766	20792	511.51	21313	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			9111	6238	158.03	6585	
Total Regional Availability(Gross)		76475	52318	43600	1071.92	44663	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	11057	8862	224.50	9354
State Control Area Hydro	7163	4672	4693	105.50	4691
Total Regional Hydro	19397	15729	13554	329.99	14045

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.10	4
State Control Area Renewable	7356	2238	2055	53.03	2210
Total Regional Renewable	7386	2238	2055	53.13	2214

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

Element	Peak(20:00 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	-200	0	500	0.00	8.50	-8.50
765 KV Gwalior-Agra (D/C)	2909	1717	2909	0	54.09	0.00	54.09
400 KV Zerda-Kankroli	-124	-277	0	452	0.00	7.38	-7.38
400 KV Zerda-Bhinmal	-104	-308	0	465	0.00	7.17	-7.17
220 KV Auraiya-Malanpur	90	16	0	54	0.71	0.00	0.71
220 KV Badod-Kota/Morak	118	92	151	0	2.35	0.00	2.35
Mundra-Mohindergarh(HVDC Bipole)	1002	701	1804	0	20.38	0.00	20.38
400 KV RAPPCC-Sujalpur	299	184	389	0	4.71	0.00	4.71
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kv Phagi-Gwalior (D/C)	1254	1001	1480	0	23.30	0.00	23.30
+/- 800 kV HVDC Champa-Kurushetra	1500	500	1500	0	22.33	0	22.33
Sub Total WR	6544	3426			127.86	23.05	104.81
400 kV Sasaram - Varanasi	-72	144	156	96	0.00	0.35	-0.35
400 kV Sasaram - Allahabad	-126	45	62	204	0.00	1.49	-1.49
400 KV MZP- GKP (D/C)	482	593	857	0	15.53	0.00	15.53
400 KV Patna-Balia(D/C) X 2	528	454	629	0	11.00	0.00	11.00
400 KV B'Sharif-Balia (D/C)	222	257	324	0	5.71	0.00	5.71
765 KV Gaya-Balia	405	379	460	0	7.15	0.00	7.15
765 KV Gaya-Varanasi (D/C)	304	283	357	0	5.79	0.00	5.79
220 KV Pusaali-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	-33	0	36	0.00	0.51	-0.51
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-12	-84	208	107	0.26	0.00	0.26
400 KV Barh -GKP (D/C)	414	352	414	0	7.67	0.00	7.67
400 kV B'Sharif - Varanasi (D/C)	-78	-78	0	207	0.00	2.45	-2.45
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2067	2312			53.10	4.79	48.31
+/- 800 KV HVDC BiswanathCharialli-Agra	500	500	500	0.00	4.91	0.00	4.91
Sub Total NER	500	500			4.91	0.00	4.91
Total IR Exch	9111	6238			185.87	27.84	158.03

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
28.63	1.36	30.00	14.05	14.96	-3.85	-3.17	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
40.20	128.69	168.89	53.22	104.81	158.03	13.02	-23.88	-10.86

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-27	-25	0	-30	0	-1	0.61

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	1.26	30.91	63.33	25.97	10.38	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)		
50.19	8.06	49.86	19.07	50.03	0.041	0.058	50.18	49.92	36.67

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviate
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	403	5:02	397	16:44	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	6:46	389	23:03	0.0	0.3	0.0	0.0	0.0
Bareilly(PG)400kV	400	414	6:02	391	21:17	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	6:33	398	23:02	0.0	0.0	0.0	0.0	0.0
Dadri	400	410	6:00	392	14:22	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	415	5:59	391	14:38	0.0	0.0	0.0	0.0	0.0
Bawana	400	412	6:00	394	14:35	0.0	0.0	0.0	0.0	0.0
Bassi	400	415	4:00	393	23:07	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	6:00	394	19:35	0.0	0.0	0.0	0.0	0.0
Moga	400	412	5:31	396	19:31	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	411	5:59	392	19:36	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	418	5:36	402	19:13	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	411	5:50	397	19:25	0.0	0.0	0.0	0.0	0.0
Wagoora	400	403	6:00	376	19:45	9.1	48.1	0.0	0.0	9.1
Amritsar	400	416	5:06	401	19:35	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	407	0:00	407	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	5:32	393	19:13	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 Deviate
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	778	5:10	741	23:04	0.0	0.2	0.0	0.0	0.0
Balia	765	786	6:30	744	21:17	0.0	0.0	0.0	0.0	0.0
Moga	765	789	6:00	758	19:37	0.0	0.0	0.0	0.0	0.0
Agra	765	786	6:32	750	23:05	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	791	5:23	763	23:03	0.0	0.0	0.0	0.0	0.0
Unnao	765	773	6:31	736	23:02	0.0	5.1	0.0	0.0	0.0

Lucknow	765	791	6:47	743	23:03	0.0	0.0	0.0	0.0
Meerut	765	794	6:01	758	23:17	0.0	0.0	0.0	0.0
Jhatikara	765	794	6:01	756	23:06	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	790	6:29	746	23:06	0.0	0.0	0.0	0.0
Anta	765	780	3:57	756	23:04	0.0	0.0	0.0	0.0
Phagi	765	785	4:02	756	23:03	0.0	0.0	0.0	0.0

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	476.74	387.82	479.30	441.00	726.38	852.73
Pong	426.72	384.05	392.25	84.61	390.32	59.64	182.73	163.33
Tehri	829.79	740.04	742.60	12.25	745.85	29.00	176.46	155.00
Koteshwar	612.50	598.50	610.36	4.69	608.88	3.99	155.00	143.02
Chamera-I	760.00	748.75	754.40	0.00	0.00	0.00	326.95	335.75
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	513.57	7.25	505.01	7.19	229.94	373.79

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	1771	0	0	1337	46	0	40.67	0.18	40.85
Delhi	970	-478	0	950	-342	0	23.27	-8.35	14.92
Haryana	736	241	0	736	191	0	17.66	5.23	22.90
HP	-1302	-47	0	-1179	-278	0	-29.39	-2.67	-32.06
J&K	-824	0	0	-824	-71	0	-19.78	-4.99	-24.77
CHD	0	0	0	0	0	0	0.00	0.08	0.08
Rajasthan	-157	378	0	-157	138	0	-3.76	7.81	4.05
UP	575	1261	0	1065	580	0	9.51	7.11	16.63
Uttarakhand	24	-254	0	-287	162	0	-1.08	-1.72	-2.81
Total	1793	1101	0	1641	428	0	37.12	2.68	39.80

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1969	1253	46	0	0	0
Delhi	1302	779	44	-810	0	0
Haryana	736	736	280	62	0	0
HP	-1144	-1344	-11	-380	0	0
J&K	-824	-824	0	-474	0	0
CHD	0	0	39	-40	0	0
Rajasthan	-157	-157	385	-138	0	0
UP	1082	-45	1261	-100	0	0
Uttarakhand	26	-338	164	-276	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	1.39%

(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	4	34
Haryana	4	31
Rajasthan	4	27
Delhi	3	20
UP	0	12
Uttarakhand	2	22
HP	2	16
J & K	2	32
Chandigarh	5	27

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 20.06.2017 :

XVI. Synchronisation of new generating units :

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

First time charging at Hapur (UP) : 1) 220kV Bus -I charged through 207 Bay(ICT-I) at 15:34 hrs on 20.06.2017 II) 220kV Bus -II charged through 208Bay (ICT-II) at 15:54 hrs on 20.06.2017

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 : 20.06.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER