

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 18.07.2016

Date of Reporting : 19.07.2016



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
41945	875	42820	50.05	35569	181	35750	50.03	930.3	6.64

*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:

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	50.13	11.62		61.74	112.02	112.74	0.72	174.48	0.00
Haryana	18.69	0.87		19.56	132.22	128.57	-3.65	148.13	0.00
Rajasthan	59.90	0.79	37.84	98.53	64.52	68.26	3.74	166.79	0.00
Delhi	12.51			12.51	79.23	79.70	0.48	92.21	0.02
UP	107.09	12.19		119.28	132.43	134.07	1.65	253.35	0.00
Uttarakhand		17.34		17.34	16.71	16.13	-0.58	33.47	0.00
HP		16.75		16.75	5.16	8.38	3.22	25.13	0.03
J & K		22.48	0.00	22.48	12.02	8.75	-3.27	31.23	6.59
Chandigarh				0.00	5.95	5.50	-0.45	5.50	0.00
Total	248.31	82.04	37.84	368.19	560.26	562.10	1.84	930.29	6.64

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

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

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	7849	0	-224	1561	6217	0	26	1835	8153	22:00	0
Haryana	7243	0	40	2096	5467	0	-518	2128	7840	21:00	0
Rajasthan	6892	0	-4	196	6348	0	333	329	7919	24:00	0
Delhi	4227	0	63	328	3744	0	12	51	4813	16:00	0
UP	11402	520	-40	584	10841	0	-257	639	12515	24:00	0
Uttarakhand	1619	0	-99	174	1207	0	69	94	1643	21:00	0
HP	1048	0	136	-1525	826	0	101	-1742	1230	10:00	0
J&K	1420	355	10	-660	724	181	-289	-1023	1492	21:00	373
Chandigarh	245	0	-19	0	195	0	-24	0	265	15:00	0
Total	41945	875	-136	2754	35569	181	-547	2311	44240	23:00	282

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

Diversity is: 1.04

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 [DG:(+ve), UG:(-ve)]	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1890	2020	1597	42.40	1767	42.44	-0.04	
Rihand I STPS (2*500)	1000	940	957	664	19.38	808	19.91	-0.53	
Rihand II STPS (2*500)	1000	948	1001	652	18.12	755	18.86	-0.73	
Rihand III STPS (2*500)	1000	948	963	625	18.80	783	19.55	-0.75	
Dadri I STPS (4*210)	840	805	263	251	6.56	273	6.70	-0.14	
Dadri II STPS (2*490)	980	960	649	600	15.23	634	15.87	-0.65	
Unchahar I TPS (2*210)	420	350	264	253	5.72	238	5.96	-0.25	
Unchahar II TPS (2*210)	420	400	270	251	5.74	239	6.66	-0.92	
Unchahar III TPS (1*210)	210	200	147	140	3.06	127	3.30	-0.24	
ISTPP (Jhajjar) (3*500)	1500	1029	475	615	8.54	356	8.98	-0.44	
Dadri GPS (4*130.19+2*154.51)	830	791	244	291	6.25	260	6.48	-0.23	
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	632	132	143	3.02	126	3.12	-0.10	
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	
Unchahar Solar(10)	10	2	0	0	0.03	1	0.04	-0.02	
Singrauli Solar(15)	15	2	0	0	0.04	1	0.05	-0.01	
KHEP(4*200)	800	855	854	854	20.73	864	20.52	0.21	
Sub Total (A)	12112	11151	8239	6936	174	7234	178	-4.83	
B. NPC									
NAPS (2*220)	440	385	425	431	9.23	385	9.24	-0.01	
RAPS- B (2*220)	440	176	201	204	4.24	177	4.22	0.02	
RAPS- C (2*220)	440	410	435	441	9.38	391	9.84	-0.46	
Sub Total (B)	1320	971	1061	1076	22.85	952	23.30	-0.45	
C. NHPC									
Chamera I HPS (3*180)	540	540	544	537	12.65	527	12.67	-0.03	
Chamera II HPS (3*100)	300	301	308	305	7.25	302	7.22	0.03	
Chamera III HPS (3*77)	231	231	235	236	5.58	232	5.55	0.03	
Bairasuli HPS(3*60)	180	180	122	0	1.00	42	1.04	-0.04	
Salal-HPS (6*115)	690	662	675	671	16.14	673	15.88	0.26	
Tanakpur-HPS (3*31.4)	94	86	95	91	2.17	90	2.03	0.14	
Uri-I HPS (4*120)	480	371	356	359	9.15	381	8.94	0.21	
Uri-II HPS (4*60)	240	213	205	211	5.19	216	5.13	0.05	
Dhauliganga-HPS (4*70)	280	0	0	0	0.00	0	0.00	0.00	
Dulhasti-HPS (3*130)	390	381	395	388	9.18	383	9.13	0.05	
Sewa-II HPS (3*40)	120	119	127	0	1.71	71	1.70	0.01	
Parbati 3 (4*130)	520	356	259	129	4.15	173	4.14	0.00	
Sub Total (C)	4065	3441	3320	2927	74	3090	73	0.71	
D. SJVNL									
NJPC (6*250)	1500	1269	1614	1607	29.91	1246	30.16	-0.25	
Rampur HEP (6*68.67)	412	94	446	441	8.39	350	8.25	0.14	
Sub Total (D)	1912	1363	2060	2048	38.30	1596	38.41	-0.11	
E. THDC									
Tehri HPS (4*250)	1000	791	762	167	13.83	576	13.88	-0.04	
Koteshwar HPS (4*100)	400	279	398	89	5.18	216	5.18	0.00	
Sub Total (E)	1400	1070	1160	256	19.01	792	19.05	-0.04	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1036	1316	905	24.93	1039	24.87	0.06	
Dehar HPS (6*165)	990	600	825	560	14.65	610	14.40	0.25	
Pong HPS (6*66)	396	52	55	0	1.22	51	1.25	-0.03	
Sub Total (F)	2765	1688	2196	1465	40.80	1700	40.52	0.28	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	205	189	4.50	187	4.61	-0.11	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.09	1087	26.08	0.01	
Malana Stg-II HPS (2*50)	100	0	112	112	2.64	110	2.50	0.14	
Shree Cement TPS (2*150)	300	0	223	215	5.61	234	5.74	-0.13	
Budhil HPS(IPP) (2*35)	70	0	71	70	1.69	71	1.67	0.03	
Sub Total (G)	1662	0	1711	1687	40.53	1689	40.60	-0.06	
H. Total Regional Entities (A-G)	25237	19684	19747	16394	409.28	17053	413.78	-4.50	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	210	160	3.90	163	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	2.03	84	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	200	205	4.57	191	
	Goindwal(GVK) (2*270)	540	180	180	4.44	185	
	Rajpura (2*700)	1400	1320	660	20.30	846	
	Talwandi Saboo (3*660)	1980	616	616	14.89	620	
	Thermal (Total)	6560	2616	1911	50.13	2089	
	Total Hydro	1000	380	485	11.62	484	
	Total Punjab	7560	2996	2396	61.74	2573	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	469	456	11.05	461	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	341	310	7.64	318	
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	810	766	18.69	779	
Total Hydro		62	35	36	0.87	36	
Total Haryana		4559	845	802	19.56	815	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	105	160	3.25	135
	suratgarh TPS (6*250)	1500	183	179	4.42	184	
	Chabra TPS (4*250)	1000	258	180	5.13	214	
	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	169	161	3.96	165	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	113	113	2.62	109	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	659	454	14.05	585	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0	
	Kawai(Adani) (2*660)	1320	1173	868	26.48	1103	
	Thermal (Total)	8876	2660	2115	60	2496	
	Total Hydro	550	63	0	0.79	33	
	Wind power	3214	1605	1328	35.04	1460	
	Biomass	99	19	19	0.45	19	
	Solar	730	0	0	2.35	98	
	Renewable/Others (Total)	4043	1624	1347	37.84	1577	
	Total Rajasthan	13469	4347	3462	98.53	4105	
	UP	Anpara TPS (3*210+2*500)	1630	1267	1319	31.30	1304
Obra TPS (2*50+2*94+5*200)		1194	351	388	8.70	363	
Paricha TPS (2*110+2*220+2*250)		1160	746	638	15.20	633	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaganj TPS (1*60+1*105+2*250)		665	406	326	8.30	346	
Tanda TPS (NTPC) (4*110)		440	200	193	5.19	216	
Roza TPS (IPP) (4*300)		1200	194	194	4.70	196	
Anpara-C (IPP) (2*600)		1200	1017	666	18.40	767	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	181	204	4.70	196	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	466	364	9.40	392	
Thermal (Total)		12449	4828	4292	106	4412	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	6.50	271	
Alaknanda(4*82.5)		330	233	331	4.40	183	
Other Hydro		527	69	58	1.29	54	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5615	5166	119	4970	
Uttarakhand		Total Hydro	1398	906	506	17.34	723
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	906	506	17	723	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.68	70	
	Pragati Gas Turbine (2x104+ 1x122)	330	155	150	3.61	150	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	0	0	0.00	0	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.22	301	
	Thermal (Total)	2917	559	554	12.51	521	
	Total Delhi	2917	559	554	12.51	521	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.00	0	
	Malana HPS (IPP) (2*43)	86	101	103	2.45	102	
	Other Hydro	878	590	577	14.31	596	
	Total HP	1264	691	680	16.75	698	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	200	210	4.89	204	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	933	943	22.48	937	
Total State Control Area Generation		47619	16892	14509	368.19	15341	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8132	5661	166.52	6938	
Total Regional Availability(Gross)		72856	44771	36564	943.99	39333	
IV. Total Hydro Generation:							
Regional Entities Hydro		12234	11007	8952	226.23	9426	
State Control Area Hydro		7106	3745	3474	82.04	3418	
Total Regional Hydro		19340	14752	12426	308.27	12844	

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-250	0	250	0.00	6.14	-6.14
765 KV Gwalior-Agra (D/C)	2701	1290	2722	0	42.96	0.00	42.96
400 KV Zerda-Kankroli	143	-12	143	110	0.01	0.00	0.01
400 KV Zerda-Bhinmal	106	7	114	108	0.16	0.00	0.16
220 KV Auraiya-Malanpur	-13	-77	0	117	0.00	1.26	-1.26
220 KV Badod-Kota/Morak	140	160	296	120	4.09	0.00	4.09
Mundra-Mohindergarh(HVDC Bipole)	1498	1198	1805	0.00	34.57	0.00	34.57
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1084	732	1354	658	25.30	0.00	25.30
Sub Total WR	5409	3048			107.08	7.40	99.68
Pusauli Bypass/HVDC	400	200	400	0	7.98	0.00	7.98
400 KV MZP- GKP (D/C)	398	584	764	0	14.36	0.00	14.36
400 KV Patna-Balia(D/C) X 2	772	853	973	0	21.22	0.00	21.22
400 KV B'Sharif-Balia (D/C)	24	15	137	13	1.22	0.00	1.22
765 KV Gaya-Balia	272	163	328	0	2.54	0.00	2.54
765 KV Gaya-Varanasi (D/C)	433	314	512	0	8.32	0.00	8.32
220 KV Pusauli-Sahupuri	192	192	207	0	4.35	0.00	4.35
132 KV K'nasa-Sahupuri	-20	-26	0	28	0.00	0.56	-0.56
132 KV Son Ngr-Rihand	-34	-11	0	34	0.00	0.35	-0.35
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-212	-175	0	231	0.00	3.21	-3.21
400 KV Barh -GKP (D/C)	498	504	574	424	10.98	0.00	10.98
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2723	2613			70.96	4.12	66.84
+/- 800 KV BiswanathCharialli-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	8132	5661			178.04	11.52	166.52

V(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
36.91	3.83	40.74	10.79	22.97	3.99	1.78	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
55.52	113.90	169.41	66.84	99.68	166.52	11.32	-14.22	-2.90

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29	-9	0	29	0	0	-0.48

VI. 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	0.21	2.19	32.68	63.16	25.21	9.39	0.17	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)		
50.21	8.04	49.74	6.18	50.03	0.044	0.061	50.28	50.00	36.84

VII. 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	410	2:52	400	22:48	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	7:03	395	22:09	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	4:07	393	16:17	0.0	0.0	0.0	0.0	0.0
Kanpur	400	412	18:03	394	22:09	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	1:48	401	23:10	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	425	4:03	398	14:51	0.0	0.0	16.2	0.0	16.2
Bawana	400	421	3:56	397	19:48	0.0	0.0	0.4	0.0	0.4
Bassi	400	426	3:56	394	22:09	0.0	0.0	16.3	0.0	16.3
Hissar	400	417	3:41	392	19:39	0.0	0.0	0.0	0.0	0.0
Moga	400	416	5:04	396	19:48	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	418	4:56	396	19:39	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	424	5:03	403	22:09	0.0	0.0	12.3	0.0	12.3
Kishenpur	400	412	5:03	399	20:12	0.0	0.0	0.0	0.0	0.0
Wagoora	400	410	3:03	392	20:11	0.0	0.0	0.0	0.0	0.0
Amritsar	400	421	5:03	403	20:52	0.0	0.0	0.7	0.0	0.7
Kashipur	400	420	3:36	408	22:06	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	417	4:25	401	14:35	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	3:46	391	22:07	0.0	0.0	0.0	0.0	0.0

VIII. 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	778	18:03	739	22:10	0.0	0.5	0.0	0.0	0.0
Balia	765	783	7:03	744	22:09	0.0	0.0	0.0	0.0	0.0
Moga	765	796	4:01	756	22:09	0.0	0.0	0.0	0.0	0.0
Agra	765	777	16:00	754	10:55	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	802	3:46	757	19:48	0.0	0.0	2.4	0.0	2.4
Unnao	765	764	2:50	725	22:09	2.3	18.3	0.0	0.0	2.3
Lucknow	765	794	7:03	748	22:09	0.0	0.0	0.0	0.0	0.0
Meerut	765	797	3:56	749	22:09	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	790	4:01	742	22:09	0.0	0.0	0.0	0.0	0.0
Anta	765	781	19:07	753	22:11	0.0	0.0	0.0	0.0	0.0
Phagi	765	801	3:44	752	20:02	0.0	0.0	2.4	0.0	2.4

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	483.30	544.27	497.70	1006.54	1558.33	897.47
Pong	426.72	384.05	397.99	179.94	411.20	534.70	736.27	88.91
Tehri	829.79	740.04	779.60	315.00	772.60	235.00	857.85	414.00
Koteswar	612.50	598.50	610.58	4.75	610.18	4.44	414.00	341.43
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	348.87	346.23
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	506.37	4.20	523.59	10.78	523.69	172.14

* 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	1433	402	0	1282	280	0	31.70	9.56	41.26
Delhi	557	-505	0	853	-526	0	19.36	-10.79	8.57
Haryana	1867	261	0	1756	340	0	41.14	7.12	48.26
HP	-1502	-240	0	-1220	-305	0	-31.55	-6.37	-37.92
J&K	-721	-302	0	-645	-15	0	-17.18	-2.16	-19.34
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-194	523	0	-194	390	0	-4.66	12.02	7.37
UP	639	0	0	584	0	0	13.57	0.00	13.57
Uttarakhand	-341	434	0	-347	520	0	-8.26	11.34	3.08
Total	1738	573	0	2069	685	0	44.47	20.72	65.20

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1433	1282	445	274	0	0
Delhi	977	556	-81	-810	0	0
Haryana	2022	1579	370	68	0	0
HP	-1219	-1502	-169	-348	0	0
J&K	-620	-872	0	-302	0	0
CHD	44	0	0	0	0	0
Rajasthan	-194	-194	527	85	0	0
UP	679	471	0	0	0	0
Uttarakhand	-340	-348	542	413	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. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

0.00

XIV. Weather Conditions For 18.07.2016 :

XV. Synchronisation of new generating units :

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

XVII. Tripping of lines in pooling stations :

XVIII. 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.