

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिक की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.07.2016
Date of Reporting : 29.07.2016



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
44865	711	45576	50.05	43936	207	44143	50.03	1055.7	8.78

* 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	74.41	14.04		88.45	128.65	128.74	0.09	217.19	0.00
Haryana	33.11	0.60		33.71	142.10	138.58	-3.52	172.29	0.00
Rajasthan	98.21	0.00	5.03	103.24	64.08	65.26	1.17	168.50	0.00
Delhi	21.44			21.44	78.47	78.20	-0.26	99.65	0.08
UP	124.04	20.36		144.40	154.09	153.85	-0.25	298.25	0.40
Uttarakhand		18.01		18.01	19.04	18.93	-0.11	36.94	0.26
HP		23.98		23.98	1.03	1.37	0.35	25.36	0.08
J & K		22.40	0.00	22.40	12.52	9.41	-3.11	31.81	7.95
Chandigarh				0.00	6.49	5.71	-0.77	5.71	0.00
Total	351.22	99.40	5.03	455.65	606.46	600.04	-6.42	1055.69	8.78

* 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	9158	0	-10	1618	8214	0	41	1820	9539	21:00	0
Haryana	7199	0	-61	1987	7739	0	-104	1956	8048	1:00	0
Rajasthan	7105	0	41	-65	6802	0	-295	54	7587	21:00	0
Delhi	4367	0	-74	464	3924	0	159	305	4822	16:00	0
UP	12115	210	170	1499	13685	0	93	1679	13685	3:00	0
Uttarakhand	1734	75	30	-46	1419	0	34	-206	1740	21:00	75
HP	1030	0	111	-1550	900	0	-21	-1613	1211	10:00	0
J&K	1902	426	45	-668	1037	207	-302	-1046	1946	21:00	436
Chandigarh	256	0	-23	0	217	0	-44	0	263	15:00	0
Total	44865	711	229	3239	43936	207	-439	2949	46748	21:00	511

* 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	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1866	2014	2053	43.60	1817	42.80		0.79
Rihand I STPS (2*500)	1000	0	0	0	0.00	0	0.00		0.00
Rihand II STPS (2*500)	1000	943	901	848	19.99	833	19.71		0.28
Rihand III STPS (2*500)	1000	943	874	844	20.03	835	20.15		-0.12
Dadri I STPS (4*210)	840	805	422	399	8.21	342	8.49		-0.28
Dadri II STPS (2*490)	980	960	1003	713	17.06	711	17.63		-0.57
Unchahar I TPS (2*210)	420	350	358	331	6.80	283	7.14		-0.34
Unchahar II TPS (2*210)	420	400	389	321	7.15	298	7.57		-0.42
Unchahar III TPS (1*210)	210	200	210	164	3.56	149	3.80		-0.24
ISTPP (Jhajjar) (3*500)	1500	1425	830	621	14.46	603	14.84		-0.38
Dadri GPS (4*130.19+2*154.51)	830	787	183	150	3.60	150	3.56		0.04
Anta GPS (3*88.71+1*153.2)	419	400	0	0	0.00	0	0.00		0.00
Auraiya GPS (4*111.19+2*109.30)	663	633	145	137	3.17	132	3.16		0.01
Dadri Solar(5)	5	1	0	0	0.01	0	0.02		-0.01
Unchahar Solar(10)	10	2	0	0	0.03	1	0.04		-0.01
Singrauli Solar(15)	15	3	0	0	0.06	3	0.07		-0.01
KHEP(4*200)	800	855	852	854	20.58	858	20.52		0.06
Sub Total (A)	12112	10572	8181	7435	168	7013	169		-1.19
B. NPC									
NAPS (2*220)	440	390	423	429	9.27	386	9.36		-0.09
RAPS- B (2*220)	440	181	202	203	4.25	177	4.34		-0.10
RAPS- C (2*220)	440	410	440	439	9.41	392	9.84		-0.43
Sub Total (B)	1320	981	1065	1071	22.93	955	23.54		-0.62
C. NHPC									
Chamera I HPS (3*180)	540	540	540	547	12.95	540	12.75		0.20
Chamera II HPS (3*100)	300	301	309	302	7.28	303	7.22		0.06
Chamera III HPS (3*77)	231	229	233	231	5.53	230	5.50		0.03
Bairasuli HPS(3*60)	180	158	185	0	3.76	156	3.71		0.05
Salal-HPS (6*115)	690	548	675	221	14.03	585	13.24		0.79
Tanakpur-HPS (3*31.4)	94	88	95	96	2.28	95	2.09		0.19
Uri-I HPS (4*120)	480	360	407	341	8.97	374	8.63		0.33
Uri-II HPS (4*60)	240	212	237	180	5.22	218	5.07		0.15
Dhauliganga-HPS (4*70)	280	270	270	270	6.44	269	6.48		-0.03
Dulhasti-HPS (3*130)	390	381	396	393	9.22	384	9.14		0.08
Sewa-II HPS (3*40)	120	119	129	128	3.03	126	2.82		0.20
Parbati 3 (4*130)	520	479	520	0	3.93	164	3.87		0.07
Sub Total (C)	4065	3686	3997	2710	83	3443	81		2.12
D. SJVNL									
NJPC (6*250)	1500	1605	1601	1616	38.49	1604	38.52		-0.03
Rampur HEP (6*68.67)	412	442	447	448	10.65	444	10.61		0.04
Sub Total (D)	1912	2047	2048	2064	49.14	2047	49.13		0.01
E. THDC									
Tehri HPS (4*250)	1000	856	845	859	20.53	855	20.54		-0.02
Koteshwar HPS (4*100)	400	338	397	273	8.11	338	8.10		0.01
Sub Total (E)	1400	1194	1242	1132	28.63	1193	28.64		-0.01
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1014	1320	893	24.53	1022	24.33		0.20
Dehar HPS (6*165)	990	604	825	590	14.62	609	14.51		0.11
Pong HPS (6*66)	396	69	180	0	1.64	68	1.65		-0.01
Sub Total (F)	2765	1687	2325	1483	40.78	1699	40.48		0.30
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	229	231	4.94	206	4.42		0.52
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.22	1093	26.08		0.14
Malana Stg-II HPS (2*50)	100	0	112	113	2.64	110	2.45		0.19
Shree Cement TPS (2*150)	300	0	271	258	6.11	254	6.24		-0.14
Budhil HPS(IPP) (2*35)	70	0	73	73	1.44	60	1.54		-0.10
Sub Total (G)	1662	0	1786	1774	41.35	1723	40.73		0.62
H. Total Regional Entities (A-G)	25237	20166	20643	17668	433.78	18074	432.55		1.23

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	690	690	15.37	641	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	1.96	82	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	384	386	8.40	350	
	Goindwal(GVK) (2*270)	540	246	180	5.15	215	
	Rajpura (2*700)	1400	1220	720	26.66	1111	
	Talwandi Saboo (3*660)	1980	616	616	16.87	703	
	Thermal (Total)	6560	3246	2682	74.41	3101	
	Total Hydro	1000	602	516	14.04	585	
	Total Punjab	7560	3848	3198	88.45	3685	
	Haryana	Panipat TPS (2*210+2*250)	920	0	410	5.69	237
DCRTPP (Yamuna nagar) (2*300)		600	462	463	10.94	456	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	306	322	7.47	311	
RGTPP (khedar) (IPP) (2*600)		1200	379	398	9.02	376	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1147	1593	33.11	1380	
Total Hydro		62	37	0	0.60	25	
Total Haryana		4559	1184	1593	33.71	1405	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	676	647	15.50	646
	suratgarh TPS (6*250)	1500	613	765	16.13	672	
	Chabra TPS (4*250)	1000	588	373	11.45	477	
	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	155	158	4.00	167	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	0	0	0.00	0	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	698	568	14.05	586	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	415	440	10.19	425	
	Kawai(Adani) (2*660)	1320	1134	1069	26.89	1120	
	Thermal (Total)	8876	4279	4020	98	4092	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	54	674	4.54	189	
	Biomass	99	21	21	0.50	21	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	75	695	5.03	210	
	Total Rajasthan	13469	4354	4715	103.24	4302	
	UP	Anpara TPS (3*210+2*500)	1630	1437	1331	30.37	1265
		Obra TPS (2*50+2*94+5*200)	1194	295	341	7.40	308
		Paricha TPS (2*110+2*220+2*250)	1160	573	564	13.82	576
Panki TPS (2*105)		210	0	0	0.13	6	
Harduaganj TPS (1*60+1*105+2*250)		665	402	491	10.62	443	
Tanda TPS (NTPC) (4*110)		440	275	292	6.54	272	
Roza TPS (IPP) (4*300)		1200	815	819	19.44	810	
Anpara-C (IPP) (2*600)		1200	1080	1080	25.80	1075	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	171	242	5.01	209	
Anpara-D(2*500)		1000	0	182	3.70	154	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	0	0	0.00	0	
Thermal (Total)		12449	5048	5342	123	5118	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.17	424	
Alaknanda(4*82.5)		330	339	341	8.10	338	
Other Hydro		527	89	228	2.09	87	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5961	6396	144	6017	
Uttarakhand		Total Hydro	1398	942	479	18.01	751
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	942	479	18	751	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.17	-7	
	Delhi Gas Turbine (6x30 + 3x34)	282	74	109	2.33	97	
	Pragati Gas Turbine (2x104+ 1x122)	330	263	262	6.38	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	255	251	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	320	320	6.85	285	
	Thermal (Total)	2917	912	942	21.44	894	
	Total Delhi	2917	912	942	21.44	894	
HP	Baspa HPS (IPP) (3*100)	300	323	323	7.63	318	
	Malana HPS (IPP) (2*43)	86	107	107	2.51	105	
	Other Hydro	878	458	678	13.85	577	
	Total HP	1264	888	1108	23.98	999	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	726	17.52	730	
	Other Hydro/IPP	560	200	210	4.89	204	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	933	936	22.40	934	
Total State Control Area Generation		47619	19022	19367	455.65	18985	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8200.3	8631.02	191.59	7983	
Total Regional Availability(Gross)		72856	47866	45666	1081.01	45042	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11905	9685	255.58	10649
State Control Area Hydro		7106	4265	4043	99.40	4142
Total Regional Hydro		19340	16170	13728	354.97	14791

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	
Vindhyachal(HVDC B/B)	50	250	250	-250	1.67	1.98	-0.31
765 KV Gwalior-Agra (D/C)	2382	2231	2671	0	48.53	0.00	48.53
400 KV Zerda-Kankroli	103	111	120	50	1.06	0.00	1.06
400 KV Zerda-Bhinmal	143	135	200	0	2.47	0.00	2.47
220 KV Auraiya-Malanpur	-39	-20	0	43	0.00	0.58	-0.58
220 KV Badod-Kota/Morak	58	82	74	0	2.27	0.00	2.27
Mundra-Mohindergarh(HVDC Bipole)	2502	2203	2505	0.00	57.23	0.00	57.23
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	663	778	556	0	17.27	0.00	17.27
Sub Total WR	5862	5770			130.50	2.55	127.95
Pusauli Bypass/HVDC	-160	-119	0	161	0.00	2.70	-2.70
400 KV MZP- GKP (D/C)	102	376	488	0	8.40	0.00	8.40
400 KV Patna-Balia(D/C) X 2	567	565	652	0	12.87	0.00	12.87
400 KV B'Sharif-Balia (D/C)	94	181	347	0	4.72	0.00	4.72
765 KV Gaya-Balia	260	259	334	0	2.90	0.00	2.90
765 KV Gaya-Varanasi (D/C)	354	387	520	0	9.33	0.00	9.33
220 KV Pusauli-Sahupuri	230	183	241	0	4.86	0.00	4.86
132 KV K'nasa-Sahupuri	-40	-32	0	40	0.00	0.72	-0.72
132 KV Son Ngr-Rihand	-30	-30	0	34	0.00	0.61	-0.61
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-47	23	91	47	0.79	0.00	0.79
400 KV Barh -GKP (D/C)	446	450	484	0	9.63	0.00	9.63
400 kV B'Sharif - Varanasi (D/C)	78	138	196	0	2.42	0.00	2.42
Sub Total ER	1854	2381			55.92	4.02	51.90
+/- 800 KV BiswanathChariali-Agra	484	480	488	0.00	11.74	0.00	11.74
Sub Total NER	484	480			11.74	0.00	11.74
Total IR Exch	8200	8631			198.16	6.57	191.59

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
32.72	3.32	36.04	11.41	17.52	13.18	4.09	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
60.62	137.48	198.11	63.64	127.95	191.59	3.02	-9.53	-6.52

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	-27	-25	0	28	0	1	-0.59

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	0.00	2.34	46.36	78.37	16.96	2.09	0.31	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)		
50.25	13.04	49.84	6.12	50.00	0.027	50.25	50.02	21.63	

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	412	7:42	405	0:05	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	13:03	400	0:34	0.0	0.0	4.0	0.0	4.0
Bareilly(PG)400kV	400	417	18:01	402	0:06	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	13:03	403	0:03	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	5:32	402	14:44	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	425	5:59	408	14:51	0.0	0.0	21.4	0.0	21.4
Bawana	400	418	5:36	405	14:52	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	3:30	406	19:48	0.0	0.0	14.3	0.0	14.3
Hissar	400	414	5:34	402	19:45	0.0	0.0	0.0	0.0	0.0
Moga	400	411	3:48	401	19:48	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	414	5:34	404	11:36	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	413	5:02	402	20:09	0.0	0.0	0.0	0.0	0.0
Wagoora	400	409	1:50	391	20:13	0.0	0.0	0.0	0.0	0.0
Amritsar	400	417	2:38	163	12:15	0.0	0.0	0.0	0.0	0.0
Kashipur	400	419	7:01	412	0:05	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	413	2:46	403	14:49	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	411	7:01	398	0:21	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	790	13:03	748	0:13	0.0	0.0	0.0	0.0	0.0
Balia	765	799	13:03	764	0:13	0.0	0.0	0.0	0.0	0.0
Moga	765	797	5:32	778	19:48	0.0	0.0	0.0	0.0	0.0
Agra	765	791	6:02	761	22:21	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	5:32	777	0:00	0.0	0.0	0.0	0.0	0.0
Unnao	765	773	13:03	741	0:22	0.0	1.2	0.0	0.0	0.0
Lucknow	765	802	13:04	766	0:21	0.0	0.0	0.4	0.0	0.4
Meerut	765	804	13:03	777	0:06	0.0	0.0	8.2	0.0	8.2
Jhatikara	765	798	5:34	772	22:23	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	789	17:07	759	0:22	0.0	0.0	0.0	0.0	0.0
Anta	765	807	3:24	768	20:52	0.0	0.0	2.7	0.0	2.7
Phagi	765	800	3:24	766	22:19	0.0	0.0	0.0	0.0	0.0

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	485.32	593.99	501.96	1179.55	955.69	867.34
Pong	426.72	384.05	401.13	244.95	415.05	680.86	991.91	115.33
Tehri	829.79	740.04	787.85	425.00	791.70	478.00	666.88	538.00
Koteshwar	612.50	598.50	609.41	4.20	610.00	4.69	538.00	535.10
Chamera-I	760.00	748.75	755.72	0.00	0.00	0.00	425.80	354.55
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	506.99	6.31	522.88	10.51	436.35	289.22

* 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	1355	465	0	1226	392	0	30.15	12.94	43.09
Delhi	340	-35	0	759	-295	0	16.46	-3.39	13.07
Haryana	1589	367	0	1657	330	0	40.01	6.39	46.40
HP	-1493	-121	0	-1219	-332	0	-31.42	-4.78	-36.20
J&K	-844	-201	0	-653	-15	0	-18.11	-1.20	-19.32
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-499	553	0	-539	474	0	-7.56	12.75	5.20
UP	1288	391	0	912	587	0	18.35	4.69	23.05
Uttarakhand	-353	147	0	-352	306	0	-8.47	5.09	-3.38
Total	1383	1567	0	1792	1447	0	39.76	32.48	72.25

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1398	1174	777	382	0	0
Delhi	851	340	114	-376	0	0
Haryana	1933	1398	389	-160	0	0
HP	-1217	-1493	-48	-364	0	0
J&K	-628	-980	0	-201	0	0
CHD	44	0	0	0	0	0
Rajasthan	-194	-539	555	-92	0	0
UP	1303	498	587	0	0	0
Uttarakhand	-352	-354	314	147	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	9.03%
ER	0.00%
Simultaneous	0.35%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
----------------	-------

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

0.00

XIV. Weather Conditions For 28.07.2016 :

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.