

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वाभिमूर्तता प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 22.06.2016
Date of Reporting : 23.06.2016



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
46087	910	46997	50.08	47859	277	48136	50.03	1077.7	8.72

*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 *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	81.41	14.88		96.29	111.12	105.51	-5.60	201.80	0.00
Haryana	56.56	0.83		57.39	119.67	116.89	-2.78	174.28	0.00
Rajasthan	117.00	0.02	26.95	143.96	53.32	55.07	1.76	199.04	0.00
Delhi	16.32			16.32	98.34	97.57	-0.77	113.89	0.06
UP	126.36	16.06		142.42	139.46	140.54	1.09	282.96	0.00
Uttarakhand	16.27			16.27	21.58	25.64	4.06	41.91	1.04
HP	20.15			20.15	4.94	5.56	0.63	25.72	0.02
J & K	21.46		0.00	21.46	15.50	10.86	-4.64	32.32	7.61
Chandigarh				0.00	6.08	5.83	0.27	5.83	0.00
Total	397.65	89.67	26.95	514.26	569.99	563.48	-5.99	1077.73	8.72

* 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	8258	0	-244	1416	9276	0	-62	1381	9661	10:00	0
Haryana	7472	0	25	1035	7767	0	-149	1440	8408	23:00	0
Rajasthan	8199	0	-146	-4	7443	0	188	8	9563	24:00	0
Delhi	4606	0	58	514	4721	0	209	706	5535	16:00	0
UP	12543	460	259	875	14201	0	123	1290	14240	1:00	0
Uttarakhand	1981	0	384	199	1703	0	172	57	1981	20:00	0
HP	979	0	-99	-1248	950	0	45	-1512	1269	12:00	0
J&K	1799	450	-2	-572	1570	277	-75	-623	1799	20:00	450
Chandigarh	250	0	-12	0	228	0	-16	10	289	12:00	0
Total	46087	910	222	2214	47859	277	435	2757	49244	23:00	529

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

Diversity is: 1.07

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	1900	1983	1884	42.76	1782	42.20		0.55
Rihand I STPS (2*500)	1000	465	475	430	9.72	405	9.57		0.15
Rihand II STPS (2*500)	1000	954	908	944	19.32	805	19.08		0.24
Rihand III STPS (2*500)	1000	943	988	914	18.99	791	19.33		-0.33
Dadri I STPS (4*210)	840	805	294	302	6.38	266	7.22		-0.85
Dadri II STPS (2*490)	980	960	664	695	16.16	674	16.77		-0.61
Unchahar I TPS (2*210)	420	350	270	305	6.11	255	6.50		-0.40
Unchahar II TPS (2*210)	420	400	319	264	6.18	258	7.46		-1.28
Unchahar III TPS (1*210)	210	200	147	139	3.03	126	3.50		-0.47
ISTPP (Jhajjar) (3*500)	1500	1425	947	997	21.07	878	21.70		-0.63
Dadri GPS (4*130.19+2*154.51)	830	716	153	175	3.73	156	3.84		-0.10
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	631	0	0	0.00	0	0.00		0.00
Dadri Solar(5)	5	1	0	0	0.02	1	0.02		0.00
Unchahar Solar(10)	10	0	0	0	0.01	1	0.00		0.01
Singrauli Solar(15)	15	2	0	0	0.04	2	0.04		0.00
KHEP(4*200)	800	855	851	850	19.89	829	19.76		0.14
Sub Total (A)	12112	11006	7999	7899	173	7226	177		-3.58
B. NPC									
NAPS (2*220)	440	385	417	434	9.19	383	9.24		-0.05
RAPS- B (2*220)	440	367	415	414	8.91	371	8.81		0.10
RAPS- C (2*220)	440	410	436	437	9.36	390	9.84		-0.48
Sub Total (B)	1320	1162	1268	1285	27.46	1144	27.89		-0.43
C. NHPC									
Chamera I HPS (3*180)	540	540	537	542	11.59	483	11.62		-0.02
Chamera II HPS (3*100)	300	301	309	305	7.32	305	7.22		0.10
Chamera III HPS (3*77)	231	227	229	229	5.47	228	5.45		0.02
Bairasuli HPS(3*60)	180	120	123	121	2.16	90	2.11		0.05
Salal-HPS (6*115)	690	662	669	669	16.12	672	15.88		0.23
Tanakpur-HPS (3*31.4)	94	65	90	82	1.81	75	1.54		0.27
Uri-I HPS (4*120)	480	475	477	480	11.58	482	11.40		0.18
Uri-II HPS (4*60)	240	235	239	240	5.70	237	5.65		0.05
Dhauliganga-HPS (4*70)	280	280	281	276	5.93	247	5.93		0.00
Dulhasti-HPS (3*130)	390	387	399	397	9.38	391	9.26		0.11
Sewa-II HPS (3*40)	120	119	129	84	0.97	40	0.95		0.02
Parbati 3 (4*130)	520	390	390	132	4.27	178	4.20		0.07
Sub Total (C)	4065	3802	3873	3557	82	3428	82		1.07
D. SJVNL									
NJPC (6*250)	1500	1605	1589	1618	38.48	1603	38.52		-0.04
Rampur HEP (6*68.67)	412	442	446	448	10.74	447	10.61		0.13
Sub Total (D)	1912	2047	2035	2066	49.22	2051	49.13		0.09
E. THDC									
Tehri HPS (4*250)	1000	544	536	283	5.22	218	5.12		0.10
Koteshwar HPS (4*100)	400	135	202	92	3.25	135	3.25		0.00
Sub Total (E)	1400	679	738	375	8.47	353	8.37		0.10
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1024	1264	869	24.55	1023	24.58		-0.03
Dehar HPS (6*165)	990	615	660	600	14.81	617	14.76		0.06
Pong HPS (6*66)	396	72	141	47	1.67	70	1.73		-0.06
Sub Total (F)	2765	1711	2065	1516	41.03	1710	41.06		-0.02
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	175	142	3.80	158	3.47		0.33
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.14	1089	26.13		0.01
Malana Stg-II HPS (2*50)	100	0	112	104	2.56	107	2.40		0.16
Shree Cement TPS (2*150)	300	0	288	275	6.45	269	6.55		-0.10
Budhil HPS(IPP) (2*35)	70	0	38	38	0.90	38	0.90		0.00
Sub Total (G)	1662	0	1714	1660	39.85	1660	39.46		0.39
H. Total Regional Entities (A-G)	25237	20407	19691	18357	421.74	17573	424.12		-2.37

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	320	1010	15.42	643	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	305	410	7.75	323	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	594	798	16.34	681	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	1220	1270	23.60	983	
	Talwandi Saboo (3*660)	1980	716	927	18.35	764	
	Thermal (Total)	6560	3155	4415	81.41	3392	
	Total Hydro	1000	672	678	14.88	620	
	Total Punjab	7560	3827	5093	96.29	4012	
	Haryana	Panipat TPS (2*210+2*250)	920	546	370	11.23	468
DCRTPP (Yamuna nagar) (2*300)		600	482	559	12.05	502	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	165	193	4.17	174	
RGTPP (khedar) (IPP) (2*600)		1200	771	762	19.56	815	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	381	382	9.54	398	
Thermal (Total)		4497	2345	2266	56.56	2357	
Total Hydro		62	37	26	0.83	35	
Total Haryana		4559	2382	2292	57.39	2391	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	996	833	23.72	988
	suratgarh TPS (6*250)	1500	956	952	22.95	956	
	Chabra TPS (4*250)	1000	365	329	9.04	377	
	Dholpur GPS (3*110)	330	89	88	2.12	89	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	142	150	3.18	132	
	RAPS A (NPC) (1*100+1*200)	300	141	136	3.41	142	
	Barsingar (NLC) (2*125)	250	144	80	2.43	101	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	645	532	16.16	673	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	440	407	10.12	422	
	Kawai(Adani) (2*660)	1320	1090	859	23.87	995	
	Thermal (Total)	8876	5008	4366	117	4875	
	Total Hydro	550	0	0	0.02	1	
	Wind power	3214	433	958	23.85	994	
	Biomass	99	17	17	0.40	17	
	Solar	730	0	0	2.69	112	
	Renewable/Others (Total)	4043	450	975	26.95	1123	
	Total Rajasthan	13469	5458	5341	143.96	5999	
	UP	Anpara TPS (3*210+2*500)	1630	1362	1358	31.31	1305
Obra TPS (2*50+2*94+5*200)		1194	539	537	12.70	529	
Paricha TPS (2*110+2*220+2*250)		1160	843	890	17.90	746	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaganj TPS (1*60+1*105+2*250)		665	439	443	9.00	375	
Tanda TPS (NTPC) (4*110)		440	372	397	7.68	320	
Roza TPS (IPP) (4*300)		1200	388	801	11.82	492	
Anpara-C (IPP) (2*600)		1200	1031	1090	20.30	846	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	0	210	2.91	121	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	534	529	10.35	431	
Thermal (Total)		12449	5508	6255	124	5165	
Vishnuparyag HPS (IPP)(4*110)		440	0	435	7.80	325	
Alaknanda(4*82.5)		330	312	271	6.46	269	
Other Hydro		527	48	121	1.80	75	
Cogeneration		981	100	100	2.40	100	
Total UP		14727	5968	7182	142	5934	
Uttarakhand		Total Hydro	1398	721	746	16.27	678
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	721	746	16	678	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	69	71	1.80	75	
	Pragati Gas Turbine (2x104+ 1x122)	330	264	265	6.45	269	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-2	-2	-0.11	-5	
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	329	8.19	341	
	Thermal (Total)	2917	655	663	16.32	680	
	Total Delhi	2917	655	663	16.32	680	
HP	Baspa HPS (IPP) (3*100)	300	301	332	7.52	313	
	Malana HPS (IPP) (2*43)	86	95	90	2.18	91	
	Other Hydro	878	449	427	10.45	435	
	Total HP	1264	845	849	20.15	840	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	728	728	17.18	716	
	Other Hydro/IPP	560	184	176	4.28	178	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	912	904	21.46	894	
Total State Control Area Generation		47619	20768	23070	514.26	21427	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8989.3	7314.45	174.81	7284	
Total Regional Availability(Gross)		72856	49448	48742	1110.81	46284	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	10949	9710	233.39	9725
State Control Area Hydro		7106	3547	4030	90	3736
Total Regional Hydro		19340	14496	13740	323.06	13461

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)	50	50	250	200	0.55	3.21	-2.66
765 KV Gwalior-Agra (D/C)	2730	2507	3005	0	52.76	0.00	52.76
400 KV Zerda-Kankroli	-144	-300	0	516	0.00	7.38	-7.38
400 KV Zerda-Bhinmal	-100	-285	0	488	0.00	6.31	-6.31
220 KV Auraiya-Malanpur	40	29	0	28	0.60	0.00	0.60
220 KV Badod-Kota/Morak	-21	-65	0	170	0.00	1.98	-1.98
Mundra-Mohindergarh(HVDC Bipole)	2302	2203	2516	0.00	50.43	0.00	50.43
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1157	970	1169	0	22.57	0.00	22.57
Sub Total WR	6014	5109			126.90	18.88	108.02
Pusauli Bypass/HVDC	200	200	200	0	4.76	0.00	4.76
400 KV MZP- GKP (D/C)	363	456	522	0	9.88	0.00	9.88
400 KV Patna-Balia(D/C) X 2	654	568	858	0	20.21	0.00	20.21
400 KV B'Sharif-Balia (D/C)	216	244	283	0	7.86	0.00	7.86
765 KV Gaya-Balia	289	308	311	0	4.40	0.00	4.40
765 KV Gaya-Varanasi (D/C)	237	175	311	0	4.32	0.00	4.32
220 KV Pusauli-Sahupuri	139	186	195	0	3.08	0.00	3.08
132 KV K'nasa-Sahupuri	0	-32	0	34	0.00	0.44	-0.44
132 KV Son Ngr-Rihand	-28	-18	0	30	0.00	0.42	-0.42
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-83	-154	47	174	0.00	1.63	-1.63
400 KV Barh -GKP (D/C)	502	272	576	0	9.63	0.00	9.63
400 kV B'Sharif - Varanasi (D/C)	0	0	60	28	0.00	0.16	-0.16
Sub Total ER	2489	2205			64.14	2.65	61.49
+/- 800 KV BiswanathCharialli-Agra	486	0	500	0.00	5.29	0.00	5.29
Sub Total NER	486	0			5.29	0.00	5.29
Total IR Exch	8989	7314			196.34	21.53	174.81

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
33.36	3.01	36.36	6.62	12.56	16.90	0.00	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
59.88	108.56	168.45	66.78	108.02	174.81	6.90	-0.54	6.36

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	-23	-20	0	31	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	2.07	39.20	70.95	22.25	4.76	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)		
50.21	10.03	49.83	19.25	50.02	0.032	50.22	50.00	29.05	

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	409	13:18	403	22:28	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	426	7:29	394	23:15	0.0	0.0	13.5	0.0	13.5
Bareilly(PG)400kV	400	414	7:38	386	23:14	0.0	4.4	0.0	0.0	0.0
Kanpur	400	423	7:02	394	22:25	0.0	0.0	2.1	0.0	2.1
Dadri	400	418	6:01	396	22:24	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	424	5:57	397	22:24	0.0	0.0	13.2	0.0	13.2
Bawana	400	417	5:58	396	22:22	0.0	0.0	0.0	0.0	0.0
Bassi	400	421	6:01	391	22:25	0.0	0.0	0.1	0.0	0.1
Hissar	400	414	5:58	394	22:23	0.0	0.0	0.0	0.0	0.0
Moga	400	409	13:02	396	0:06	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	410	6:58	397	1:56	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	413	13:05	401	0:00	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	408	13:00	395	19:09	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	6:01	386	19:44	0.0	8.8	0.0	0.0	0.0
Amritsar	400	420	13:01	405	0:00	0.0	0.0	0.0	0.0	0.0
Kashipur	400	419	6:00	409	0:09	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	405	3:16	396	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	408	7:05	380	0:11	0.0	40.9	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	792	7:02	726	22:24	0.3	22.7	0.0	0.0	0.3
Balia	765	798	7:00	739	22:26	0.0	3.8	0.0	0.0	0.0
Moga	765	787	6:01	761	19:46	0.0	0.0	0.0	0.0	0.0
Agra	765	794	6:59	739	22:24	0.0	2.5	0.0	0.0	0.0
Bhiwani	765	783	0:00	758	22:11	0.0	0.0	0.0	0.0	0.0
Unnao	765	782	7:02	726	22:15	0.2	25.3	0.0	0.0	0.2
Lucknow	765	806	7:02	743	23:14	0.0	0.0	4.0	0.0	4.0
Meerut	765	802	6:01	757	22:25	0.0	0.0	0.9	0.0	0.9
Jhatikara	765	790	5:58	747	22:23	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	786	7:42	731	23:14	0.0	8.7	0.0	0.0	0.0
Anta	765	790	5:05	759	22:23	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	6:00	750	23:27	0.0	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	479.49	447.73	487.88	671.08	1033.82	948.61
Pong	426.72	384.05	390.60	59.64	405.83	361.16	251.00	147.62
Tehri	829.79	740.04	748.15	40.27	742.10	10.00	327.28	191.00
Koteshwar	612.50	598.50	608.67	3.98	610.35	4.69	191.00	214.17
Chamera-I	760.00	748.75	750.60	0.00	0.00	0.00	236.12	317.92
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	504.84	6.38	522.27	8.33	294.60	336.63

* 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	743	638	0	878	538	0	21.85	16.71	38.55
Delhi	440	266	0	487	27	0	12.87	4.92	17.79
Haryana	1080	361	0	685	350	0	20.03	8.75	28.78
HP	-1134	-378	0	-881	-367	0	-23.13	-8.82	-31.95
J&K	-623	0	0	-572	0	0	-16.97	-1.95	-18.91
CHD	0	10	0	0	0	0	0.35	0.19	0.54
Rajasthan	-414	422	0	-414	410	0	-9.93	9.49	-0.43
UP	1290	0	0	875	0	0	24.37	0.00	24.37
Uttarakhand	47	10	0	49	150	0	1.12	1.08	2.20
Total	1429	1328	0	1107	1108	0	30.57	30.37	60.94

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1288	680	1114	538	0	0
Delhi	626	440	441	-177	0	0
Haryana	1202	586	402	192	0	0
HP	-863	-1136	-325	-516	0	0
J&K	-572	-976	0	-202	0	0
CHD	44	0	30	0	0	0
Rajasthan	-414	-414	422	96	0	0
UP	1428	670	0	0	0	0
Uttarakhand	49	32	151	10	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	3.13%

(ii)%age of times ATC violated on the inter-regional corridors

WR	0.69%
ER	0.00%
Simultaneous	19.44%

(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:

XIV. Weather Conditions For 22.06.2016 :

XV. Synchronisation of new generating units :

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

1) 400 KV New Bay charged at Rajpura PSTCL by PGCIL at 1823 HRS for LILO of Dehar Bhiwani.

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.