

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 26.07.2016
Date of Reporting : 27.07.2016



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
46968	1667	48635	50.05	48370	2016	50385	50.03	1140.5	15.53

*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	88.56	14.72		103.28	130.16	130.01	-0.16	233.29	0.00
Haryana	30.89	0.58		31.47	157.59	156.05	-1.54	187.52	0.00
Rajasthan	113.29	0.49	18.93	132.71	67.31	68.25	0.93	200.96	0.40
Delhi	25.08			25.08	88.82	89.91	1.09	115.00	0.06
UP	121.95	21.47		143.41	156.54	158.34	1.80	301.75	6.51
Uttarakhand		20.90		20.92	15.24	15.07	-0.16	35.99	0.15
HP		23.12		23.12	1.59	3.13	1.54	26.24	0.09
J & K		22.48	0.00	22.48	15.15	10.86	-4.29	33.34	8.33
Chandigarh				0.00	6.43	6.36	-0.07	6.36	0.00
Total	379.78	103.75	18.93	502.47	638.83	637.98	-0.85	1140.45	15.53

* 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	9489	0	-64	1508	9075	0	117	1721	10230	17:00	0
Haryana	8227	0	-86	1617	8443	0	259	1790	8745	21:00	0
Rajasthan	7425	0	-486	86	8873	33	200	128	8949	2:00	56
Delhi	4641	0	208	626	4604	0	-59	279	5551	24:00	0
UP	12284	1215	196	679	13459	1725	197	1653	13552	5:00	1260
Uttarakhand	1699	40	86	-150	1458	0	15	-235	1699	20:00	40
HP	1078	0	60	-1558	983	0	82	-1627	1228	10:00	0
J&K	1846	412	-99	-668	1240	258	-249	-980	1846	20:00	412
Chandigarh	279	0	-1	0	236	0	7	0	334	15:00	0
Total	46968	1667	-186	2140	48370	2016	568	2729	49231	1:00	2080

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

Diversity is: 1.06

III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1870	1993	2035	45.17	1882	44.75	0.43
Rihand I STPS (2*500)	1000	353	0	515	8.13	339	8.35	-0.21
Rihand II STPS (2*500)	1000	943	994	1005	22.19	924	21.99	0.20
Rihand III STPS (2*500)	1000	943	991	1004	21.98	916	21.96	0.02
Dadri I STPS (4*210)	840	805	585	380	11.49	479	11.48	0.01
Dadri II STPS (2*490)	980	960	971	773	20.09	837	20.76	-0.67
Unchahar I TPS (2*210)	420	350	351	325	7.43	310	7.84	-0.40
Unchahar II TPS (2*210)	420	400	415	342	8.34	347	8.68	-0.35
Unchahar III TPS (1*210)	210	200	208	182	4.17	174	4.31	-0.14
ISTPP (Jhajjar) (3*500)	1500	1425	1259	1139	24.44	1018	24.87	-0.43
Dadri GPS (4*130.19+2*154.51)	830	777	154	155	3.91	163	4.11	-0.20
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	632	137	153	3.41	142	3.58	-0.17
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	-0.01
Singrauli Solar(15)	15	2	0	0	0.04	2	0.04	0.00
KHEP(4*200)	800	846	851	852	20.45	852	20.30	0.15
Sub Total (A)	12112	10908	8909	8861	201	8387	203	-1.77
B. NPC								
NAPS (2*220)	440	385	430	427	9.37	390	9.24	0.13
RAPS- B (2*220)	440	182	202	202	4.25	177	4.37	-0.12
RAPS- C (2*220)	440	410	440	436	9.37	390	9.84	-0.47
Sub Total (B)	1320	977	1072	1065	22.99	958	23.45	-0.46
C. NHPC								
Chamera I HPS (3*180)	540	540	542	181	7.07	295	6.91	0.16
Chamera II HPS (3*100)	300	301	309	308	7.29	304	7.22	0.07
Chamera III HPS (3*77)	231	229	229	231	4.98	208	5.01	-0.03
Bairasuli HPS(3*60)	180	180	184	61	1.80	75	1.74	0.06
Salal-HPS (6*115)	690	662	677	678	16.31	680	15.88	0.43
Tanakpur-HPS (3*31.4)	94	86	95	95	2.29	95	2.04	0.25
Uri-I HPS (4*120)	480	322	360	340	8.05	336	7.75	0.30
Uri-II HPS (4*60)	240	187	201	183	4.56	190	4.51	0.06
Dhauliganga-HPS (4*70)	280	270	275	265	6.44	268	6.48	-0.04
Dulhasti-HPS (3*130)	390	381	396	395	9.27	386	9.14	0.13
Sewa-II HPS (3*40)	120	119	126	0	0.62	26	0.60	0.02
Parbati 3 (4*130)	520	423	263	0	3.07	128	2.99	0.07
Sub Total (C)	4065	3700	3656	2737	72	2990	70	1.49
D. SJVNL								
NJPC (6*250)	1500	1605	1606	1627	38.51	1604	38.52	-0.01
Rampur HEP (6*68.67)	412	442	445	448	10.66	444	10.61	0.05
Sub Total (D)	1912	2047	2051	2075	49.17	2049	49.13	0.04
E. THDC								
Tehri HPS (4*250)	1000	832	813	833	19.88	828	19.97	-0.09
Koteshwar HPS (4*100)	400	346	395	276	8.34	347	8.30	0.04
Sub Total (E)	1400	1178	1208	1109	28.22	1176	28.27	-0.05
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	1081	1297	894	26.12	1089	25.94	0.19
Dehar HPS (6*165)	990	606	825	580	14.68	612	14.55	0.13
Pong HPS (6*66)	396	91	232	0	1.87	78	2.17	-0.30
Sub Total (F)	2765	1778	2354	1474	42.67	1778	42.66	0.01
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	141	140	3.10	129	3.22	-0.12
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.28	1095	26.08	0.20
Malana Stg-II HPS (2*50)	100	0	112	113	2.54	106	2.37	0.16
Shree Cement TPS (2*150)	300	0	144	146	3.49	145	4.66	-1.18
Budhil HPS(IPP) (2*35)	70	0	69	72	1.63	68	1.54	0.09
Sub Total (G)	1662	0	1566	1571	37.03	1543	37.87	-0.84
H. Total Regional Entities (A-G)	25237	20587	20816	18891	453.11	18880	454.70	-1.59

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	850	850	19.13	797	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	290	290	6.37	265	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	591	594	13.18	549	
	Goindwal(GVK) (2*270)	540	180	180	4.39	183	
	Rajpura (2*700)	1400	1120	820	26.98	1124	
	Talwandi Saboo (3*660)	1980	714	616	18.52	772	
	Thermal (Total)	6560	3745	3350	88.56	3690	
	Total Hydro	1000	606	638	14.72	614	
	Total Punjab	7560	4351	3988	103.28	4304	
	Haryana	Panipat TPS (2*210+2*250)	920	461	204	8.51	354
DCRTPP (Yamuna nagar) (2*300)		600	267	269	5.99	250	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	312	322	7.65	319	
RGTPP (khedar) (IPP) (2*600)		1200	323	378	8.75	364	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1363	1173	30.89	1287	
Total Hydro		62	23	40	0.58	24	
Total Haryana		4559	1386	1213	31.47	1311	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	783	857	20.32	847
	suratgarh TPS (6*250)	1500	742	887	19.79	825	
	Chabra TPS (4*250)	1000	384	354	9.80	408	
	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	157	3.98	166	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	0	113	1.85	77	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	661	827	17.57	732	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	439	542	12.07	503	
	Kawai(Adani) (2*660)	1320	1191	1207	27.91	1163	
	Thermal (Total)	8876	4355	4944	113	4721	
	Total Hydro	550	65	0	0.49	20	
	Wind power	3214	974	680	15.91	663	
	Biomass	99	12	12	0.29	12	
	Solar	730	0	0	2.73	114	
	Renewable/Others (Total)	4043	986	692	18.93	789	
	Total Rajasthan	13469	5406	5636	132.71	5530	
	UP	Anpara TPS (3*210+2*500)	1630	1107	1153	26.98	1124
Obra TPS (2*50+2*94+5*200)		1194	327	355	8.05	335	
Paricha TPS (2*110+2*220+2*250)		1160	578	788	17.17	716	
Panki TPS (2*105)		210	0	77	1.25	52	
Harduaganj TPS (1*60+1*105+2*250)		665	386	400	9.89	412	
Tanda TPS (NTPC) (4*110)		440	272	246	6.33	264	
Roza TPS (IPP) (4*300)		1200	819	833	19.04	794	
Anpara-C (IPP) (2*600)		1200	1083	1089	25.91	1080	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	161	0	2.65	110	
Anpara-D(2*500)		1000	179	176	3.48	145	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	0	0	0.00	0	
Thermal (Total)		12449	4912	5117	121	5031	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.18	424	
Alaknanda(4*82.5)		330	342	341	8.19	341	
Other Hydro		527	119	145	3.09	129	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5858	6088	143	5976	
Uttarakhand		Total Hydro	1398	902	859	20.90	871
		Total Gas	225	0	0	0.02	1
	Total Uttarakhand	1623	902	859	21	872	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	104	102	2.57	107	
	Pragati Gas Turbine (2x104+ 1x122)	330	266	262	6.39	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	252	250	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	317	319	10.10	421	
	Thermal (Total)	2917	939	933	25.08	1045	
	Total Delhi	2917	939	933	25.08	1045	
HP	Baspa HPS (IPP) (3*100)	300	331	331	7.87	328	
	Malana HPS (IPP) (2*43)	86	99	103	2.30	96	
	Other Hydro	878	528	538	12.95	539	
	Total HP	1264	958	972	23.12	963	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	732	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	932	943	22.48	937	
Total State Control Area Generation		47619	20732	20632	502.47	20936	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8581	9850	214.53	8939	
Total Regional Availability(Gross)		72856	50128	49373	1170.11	48755	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11472	9600	244.18	10174
State Control Area Hydro		7106	4382	4373	103.77	4324
Total Regional Hydro		19340	15854	13973	347.95	14498

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	50	250	300	0.64	3.32	-2.68
765 KV Gwalior-Agra (D/C)	2503	2483	2875	0	56.10	0.00	56.10
400 KV Zerda-Kankroli	-45	137	164	110	1.08	0.00	1.08
400 KV Zerda-Bhinmal	58	125	212	62	1.85	0.00	1.85
220 KV Auraiya-Malanpur	11	-59	0	75	0.00	0.86	-0.86
220 KV Badod-Kota/Morak	14	126	126	14	1.72	0.00	1.72
Mundra-Mohinderghar(HVDC Bipole)	2000	2503	2505	0.00	56.71	0.00	56.71
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	865	1120	1251	682	23.08	0.00	23.08
Sub Total WR	5656	6485			141.17	4.18	136.99
Pusauli Bypass/HVDC	-130	-106	0	-130	0.00	2.47	-2.47
400 KV MZP- GKP (D/C)	150	386	462	0	8.41	0.00	8.41
400 KV Patna-Balia(D/C) X 2	608	807	865	0	15.45	0.00	15.45
400 KV B'Sharif-Balia (D/C)	80	173	271	0	4.34	0.00	4.34
765 KV Gaya-Balia	222	269	328	0	2.78	0.00	2.78
765 KV Gaya-Varanasi (D/C)	405	497	625	0	11.58	0.00	11.58
220 KV Pusauli-Sahupuri	215	163	229	0	4.58	0.00	4.58
132 KV K'nasa-Sahupuri	0	0	0	32	0.00	0.47	-0.47
132 KV Son Ngr-Rihand	-10	-20	0	40	0.00	0.47	-0.47
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	12	86	167	0	2.24	0.00	2.24
400 KV Barh -GKP (D/C)	496	576	584	0	11.40	0.00	11.40
400 kV B'Sharif - Varanasi (D/C)	108	51	225	0	3.22	0.00	3.22
Sub Total ER	2156	2882			64.00	3.40	60.59
+/- 800 KV BiswanathChariali-Agra	769	483	775	0.00	16.95	0.00	16.95
Sub Total NER	769	483			16.95	0.00	16.95
Total IR Exch	8581	9850			222.11	7.58	214.53

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
39.54	3.32	42.85	11.46	9.26	13.98	4.22	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
68.29	146.31	214.61	77.54	136.99	214.53	9.25	-9.32	-0.07

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	-21	0	32	0	0	-0.45

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	0.42	4.32	48.42	77.50	15.94	2.28	0.02	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	13.03	49.77	12.14	50.00	0.032	50.20	49.98	22.50	

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	411	7:32	403	11:26	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	7:46	402	3:38	0.0	0.0	5.8	0.0	5.8
Bareilly(PG)400kV	400	416	17:06	401	12:12	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	17:04	404	11:56	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	7:58	396	12:10	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	420	6:02	398	12:10	0.0	0.0	0.0	0.0	0.0
Bawana	400	415	6:03	398	12:12	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	17:06	401	12:15	0.0	0.0	0.0	0.0	0.0
Hissar	400	411	6:03	393	12:29	0.0	0.0	0.0	0.0	0.0
Moga	400	411	6:05	397	11:46	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	411	6:02	396	12:12	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	6:03	402	12:14	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	410	5:01	398	12:14	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	3:01	392	11:33	0.0	0.0	0.0	0.0	0.0
Amritsar	400	415	4:01	400	12:12	0.0	0.0	0.0	0.0	0.0
Kashipur	400	418	17:04	412	10:50	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	415	6:03	401	14:18	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	7:56	398	10:41	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	787	8:00	753	12:15	0.0	0.0	0.0	0.0	0.0
Balia	765	800	7:00	768	22:47	0.0	0.0	0.0	0.0	0.0
Moga	765	796	6:03	775	14:54	0.0	0.0	0.0	0.0	0.0
Agra	765	792	8:01	759	12:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	796	6:05	761	12:15	0.0	0.0	0.0	0.0	0.0
Unnao	765	771	8:00	745	3:38	0.0	0.0	0.0	0.0	0.0
Lucknow	765	802	7:58	770	3:38	0.0	0.0	0.9	0.0	0.9
Meerut	765	804	6:05	769	12:14	0.0	0.0	6.1	0.0	6.1
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	791	8:00	761	12:16	0.0	0.0	0.0	0.0	0.0
Anta	765	789	16:58	767	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	791	16:31	766	0:00	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	485.17	593.99	501.36	1153.36	158.51	945.44
Pong	426.72	384.05	399.52	209.93	414.18	644.91	293.16	131.56
Tehri	829.79	740.04	783.95	371.34	788.40	431.06	567.84	534.00
Koteswar	612.50	598.50	609.20	4.21	609.45	4.21	534.00	549.91
Chamera-I	760.00	748.75	751.15	0.00	0.00	0.00	237.03	194.81
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	505.73	6.92	523.10	10.76	209.02	294.62

* 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	1337	384	0	1207	301	0	29.95	10.49	40.44
Delhi	274	5	0	718	-91	0	16.05	-1.23	14.82
Haryana	1435	355	0	1271	346	0	32.48	7.53	40.01
HP	-1492	-136	0	-1217	-340	0	-31.40	-5.15	-36.55
J&K	-880	-101	0	-653	-15	0	-18.17	-0.72	-18.90
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-397	525	0	-296	381	0	-7.60	11.44	3.84
UP	1262	391	0	679	0	0	18.69	4.05	22.74
Uttarakhand	-354	118	0	-353	203	0	-8.49	4.15	-4.34
Total	1187	1542	0	1355	785	0	31.86	30.55	62.41

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1406	1174	647	229	0	0
Delhi	864	274	300	-340	0	0
Haryana	1481	1126	385	58	0	0
HP	-1216	-1492	-69	-410	0	0
J&K	-628	-980	0	-101	0	0
CHD	44	0	0	0	0	0
Rajasthan	-296	-397	528	-36	0	0
UP	1262	591	587	0	0	0
Uttarakhand	-353	-355	256	95	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	4.51%
ER	0.00%
Simultaneous	1.74%

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

WR	24.31%
ER	0.00%
Simultaneous	18.40%

(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 26.07.2016 :

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.