

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.10.2016

Date of Reporting : 25.10.2016



I. Regional Availability/Demand:

Evening Peak (19:00 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
42145	443	42588	50.10	33759	219	33978	0.00	892.2	8.89

* 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:

UI [OD:(+ve), UD: (-ve)]

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	48.32	12.03	0.17	60.51	56.91	55.96	-0.95	116.47	0.00
Haryana	34.45	0.69	0.00	35.14	92.86	91.11	-1.75	126.25	0.00
Rajasthan	106.30	4.16	24.62	135.08	56.52	58.24	1.72	193.32	0.28
Delhi	15.04		0.00	15.04	60.51	60.50	-0.01	75.54	0.01
UP	180.05	15.22	0.00	195.26	89.79	88.21	-1.59	283.47	0.00
Uttarakhand		12.15	0.00	14.42	21.17	20.99	-0.19	35.40	0.00
HP		5.85	2.66	8.51	15.31	15.30	-0.01	23.81	0.00
J & K		9.73	0.00	9.73	28.52	24.65	-3.87	34.38	8.59
Chandigarh				0.00	3.86	3.61	-0.25	3.61	0.00
Total	384.16	59.83	27.44	473.69	425.44	418.55	-6.89	892.24	8.89

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

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

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 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	5231	0	-703	-795	3948	0	-31	-92	5397	20:00	0
Haryana	7039	0	-262	836	3744	0	-44	-113	7039	19:00	0
Rajasthan	8473	0	-9	461	8082	0	-54	464	8848	7:00	0
Delhi	3867	0	48	-72	2528	0	18	-385	3867	19:00	0
UP	12587	0	-242	-10	12694	0	289	134	12931	20:00	0
Uttarakhand	1767	0	-43	345	1100	0	-8	273	1782	18:00	0
HP	1217	0	-30	-198	682	0	-9	88	1307	8:00	0
J&K	1771	443	13	345	875	219	-368	161	1771	19:00	443
Chandigarh	193	0	-36	0	106	0	-6	0	193	19:00	0
Total	42145	443	-1264	912	33759	219	-213	529	42462	20:00	428

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

Diversity is : 1.02

UI [OG:(+ve), UG: (-ve)]

III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW		(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1800	1955	1722	42.30	1762	41.99	0.31
Rihand I STPS (2*500)	1000	943	1003	804	20.07	836	20.62	-0.55
Rihand II STPS (2*500)	1000	943	977	679	19.85	827	20.19	-0.34
Rihand III STPS (2*500)	1000	466	490	370	10.16	423	10.25	-0.09
Dadri I STPS (4*210)	840	815	335	297	7.06	294	7.46	-0.40
Dadri II STPS (2*490)	980	980	930	688	17.01	709	18.07	-1.07
Unchahar I TPS (2*210)	420	353	328	262	6.42	267	6.88	-0.46
Unchahar II TPS (2*210)	420	400	335	248	6.03	251	7.14	-1.11
Unchahar III TPS (1*210)	210	200	171	135	3.13	131	3.57	-0.43
ISTPP (Jhajjar) (3*500)	1500	970	291	285	7.05	294	7.05	0.00
Dadri GPS (4*130.19+2*154.51)	830	785	326	337	7.72	322	8.20	-0.48
Anta GPS (3*88.71+1*153.2)	419	388	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	629	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	2	0	0	0.04	1	0.04	-0.01
Singrauli Solar(15)	15	2	0	0	0.05	2	0.05	0.00
KHEP(4*200)	800	858	858	439	4.46	186	4.30	0.16
Sub Total (A)	12112	10534	7999	6266	151	6307	156	-4.46
B. NPC								
NAPS (2*220)	440	195	220	222	4.72	197	4.68	0.04
RAPS- B (2*220)	440	383	427	430	9.18	383	9.19	-0.01
RAPS- C (2*220)	440	0	0	0	-0.27	-11	0.00	-0.27
Sub Total (B)	1320	578	647	652	13.64	568	13.87	-0.23
C. NHPC								
Chamera I HPS (3*180)	540	540	420	0	2.19	91	2.00	0.19
Chamera II HPS (3*100)	300	301	310	0	2.03	85	1.84	0.19
Chamera III HPS (3*77)	231	231	228	0	1.27	53	1.20	0.07
Bairasuil HPS(3*60)	180	179	119	0	0.81	34	0.75	0.06
Salal-HPS (6*115)	690	196	226	224	5.42	226	4.70	0.72
Tanakpur-HPS (3*31.4)	94	51	52	57	0.13	6	1.23	-1.10
Uri-I HPS (4*120)	480	88	73	20	2.39	100	2.12	0.27
Uri-II HPS (4*60)	240	60	38	75	1.53	64	1.44	0.09
Dhauliganga-HPS (4*70)	280	280	283	0	2.03	85	1.96	0.07
Dulhasti-HPS (3*130)	390	383	400	261	6.88	287	6.70	0.18
Sewa-II HPS (3*40)	120	119	114	0	0.35	15	0.36	-0.01
Parbati 3 (4*130)	520	303	309	0	0.96	40	0.91	0.05
Sub Total (C)	4065	2731	2573	637	26	1083	25	0.78
D.SJVNL								
NJPC (6*250)	1500	1605	1609	0	11.75	490	11.71	0.04
Rampur HEP (6*68.67)	412	442	448	0	3.41	142	3.26	0.15
Sub Total (D)	1912	2047	2057	0	15.16	632	14.97	0.19
E. THDC								
Tehri HPS (4*250)	1000	1071	1069	0	6.69	279	6.54	0.15
Koteshwar HPS (4*100)	400	85	101	70	2.05	85	2.03	0.02
Sub Total (E)	1400	1156	1170	70	8.74	364	8.57	0.17
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	744	1041	660	18.32	763	17.87	0.46
Dehar HPS (6*165)	990	244	330	165	5.97	249	5.85	0.12
Pong HPS (6*66)	396	16						

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	0	0	-0.14	-6
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.09	-4
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	1220	660	24.26	1011
	Talwandi Saboo (3*660)	1980	1760	924	24.33	1014
	Thermal (Total)	6560	2980	1584	48.32	2013
	Total Hydro	1000	579	448	12.03	501
	Wind Power	0	0	0	0.00	0
	Biomass	288	5	5	0.11	5
	Solar	560	2	2	0.06	2
	Renewable(Total)	848	7	7	0.17	7
	Total Punjab	8408	3566	2039	60.51	2521
Haryana	Panipat TPS (2*210+2*250)	920	205	196	4.99	208
	DCRTPP (Yamuna nagar) (2*300)	600	557	455	11.05	461
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	1071	773	18.40	767
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	4497	1833	1424	34.45	1435
	Total Hydro	62	29	29	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	1862	1453	35.14	1464
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1051	976	23.88	995
	suratgarh TPS (6*250)	1500	453	562	13.30	554
	Chabra TPS (4*250)	1000	923	820	20.71	863
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Rangarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	112	113	2.68	112
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	225	226	5.33	222
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	688	556	14.76	615
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	551	447	11.47	478
	Kawai(Adani) (2*660)	1320	617	607	14.17	590
	Thermal (Total)	8876	4620	4307	106.30	4429
	Total Hydro	550	172	206	4.16	173
	Wind power	4017	349	1380	24.01	1000
	Biomass	99	20	20	0.48	20
	Solar	1295	3	0	0.14	6
Renewable/Others (Total)	5411	372	1400	24.62	1026	
Total Rajasthan	14837	5164	5913	135.08	5629	
UP	Anpara TPS (3*210+2*500)	1630	1186	1188	28.70	1196
	Obra TPS (2*50+2*94+5*200)	1194	299	299	7.30	304
	Paricha TPS (2*110+2*220+2*250)	1160	578	712	17.00	708
	Panki TPS (2*105)	210	135	153	3.40	142
	Harduaganj TPS (1*60+1*105+2*250)	665	506	515	11.50	479
	Tanda TPS (NTPC) (4*110)	440	364	375	8.45	352
	Roza TPS (IPP) (4*300)	1200	901	829	20.00	833
	Anpara-C (IPP) (2*600)	1200	1067	1067	24.70	1029
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	282	405	8.10	338
	Anpara-D(2*500)	1000	669	713	12.40	517
	Lalitpur TPS(3*660)	1980	580	594	23.00	958
	Bara(2*660)	1320	546	534	13.10	546
	Thermal (Total)	12449	7113	7384	177.65	7402
	Vishnuparyag HPS (IPP)(4*110)	440	216	231	8.10	338
	Alaknanda(4*82.5)	330	162	162	3.40	142
	Other Hydro	527	152	150	3.72	155
	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	7743	8027	195.26	8136	
Uttarakhand	Other Hydro	1250	647	415	12.15	506
	Total Gas	225	91	96	2.21	92
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.06	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.06	2
	Total Uttarakhand	1802	738	511	14.42	601
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	76	74	1.82	76
	Pragati Gas Turbine (2x104+ 1x122)	330	149	147	3.69	154
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	247	251	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	169	160	3.51	146
	Thermal (Total)	2917	641	632	15.04	627
	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	641	632	15.04	627	

HP	Baspa HPS (IPP) (3*100)	300	79	99	2.17	90
	Malana HPS (IPP) (2*43)	86	44	28	0.51	21
	Other Hydro	372	180	115	3.17	132
	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	120	109	2.66	111
	Renewable(Total)	486	120	109	2.66	111
	Total HP	1244	423	350	8.51	354
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	290	290	6.96	290
	Other Hydro/IPP(including 98 MW Small Hydro)	308	138	93	2.77	115
	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	428	383	10	405	
Total State Control Area Generation		50078	20565	19308	473.69	19737
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6785	6066	170.59	7108	
Total Regional Availability(Gross)		75315	44455	33996	896.05	37335

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9292	2132	90.87	3786
State Control Area Hydro	7163	2899	2470	62.48	2698
Total Regional Hydro	19397	12191	4603	153.35	6484

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.11	4
State Control Area Renewable	7356	499	1516	27.50	1146
Total Regional Renewable	7386	499	1516	27.61	1150

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-250	0	250	0.00	6.01	-6.01
765 KV Gwalior-Agra (D/C)	2207	1556	2557	0	48.91	0.00	48.91
400 KV Zerda-Kankroli	45	-161	45	217	0.00	2.12	-2.12
400 KV Zerda-Bhinmal	31	-173	90	204	0.00	1.68	-1.68
220 KV Auraiya-Malanpur	-43	-76	0	85	0.00	1.17	-1.17
220 KV Badod-Kota/Morak	35	-21	69	40	0.00	0.01	-0.01
Mundra-Mohindergarh(HVDC Bipole)	1998	2002	2006	0.00	48.38	0.00	48.38
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1035	1045	1553	0	29.62	0.00	29.62
Sub Total WR	5058	3922			126.91	10.98	115.93
Pusauli Bypass/HVDC	150	-271	150	282	0.94	2.55	-1.61
400 KV MZP- GKP (D/C)	336	379	794	0	11.68	0.00	11.68
400 KV Patna-Balia(D/C) X 2	460	511	586	0	12.78	0.00	12.78
400 KV B'Sharif-Balia (D/C)	54	95	311	0	3.57	0.00	3.57
765 KV Gaya-Balia	188	180	302	0	4.75	0.00	4.75
765 KV Gaya-Varanasi (D/C)	375	286	673	0	10.11	0.00	10.11
220 KV Pusauli-Sahupuri	158	172	203	0	3.68	0.00	3.68
132 KV K'nasa-Sahupuri	-44	-32	0	44	0.00	0.96	-0.96
132 KV Son Ngr-Rihand	-43	-34	0	43	0.00	0.87	-0.87
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	19	11	227	50	1.86	0.00	1.86
400 KV Barh -GKP (D/C)	360	372	392	0	8.34	0.00	8.34
400 kV B'Sharif - Varanasi (D/C)	11	-7	221	11	1.84	0.00	1.84
Sub Total ER	2024	1662			59.55	4.38	55.17
+/- 800 KV BiswanathCharialli-Agra	-297	482	484	307.00	0.00	0.51	-0.51
Sub Total NER	-297	482			0.00	0.51	-0.51
Total IR Exch	6785	6066			186.46	15.87	170.59

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
44.73	3.44	48.17	8.29	0.08	0.17	9.87	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
56.63	127.30	183.93	54.66	115.93	170.59	-1.97	-11.37	-13.35

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	0	0	0	0	0	0	0.00

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	2.00	38.99	68.89	23.82	5.43	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time						
50.18	12.02	49.86	16.43	50.01	0.035	0.058	0.00	0.00	31.11

VIII(A). 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	0:58	404	17:15	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	0:58	401	18:55	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	415	1:55	400	9:14	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	2:02	403	9:09	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	1:52	402	11:12	0.0	0.0	1.3	0.0	1.3
Ballabgarh	400	427	1:58	404	11:40	0.0	0.0	27.4	0.0	27.4
Bawana	400	425	1:54	403	18:39	0.0	0.0	18.6	0.0	18.6
Bassi	400	420	3:59	399	6:26	0.0	0.0	0.0	0.0	0.0
Hissar	400	421	2:00	399	18:39	0.0	0.0	0.0	0.0	0.0
Moga	400	423	1:47	402	18:39	0.0	0.0	13.9	0.0	13.9
Abdullapur	400	430	1:19	403	18:38	0.0	0.0	21.7	0.0	21.7
Nalagarh	400	431	1:57	409	18:41	0.0	0.0	29.9	3.6	29.9
Kishenpur	400	427	3:00	396	18:37	0.0	0.0	19.6	0.0	19.6
Wagoora	400	413	3:53	367	18:39	7.5	29.7	0.0	0.0	7.5
Amritsar	400	430	1:56	405	18:34	0.0	0.0	30.3	0.0	30.3
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	4:02	392	10:36	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 Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	777	21:42	743	9:14	0.0	0.0	0.0	0.0	0.0
Balia	765	782	4:03	760	18:58	0.0	0.0	0.0	0.0	0.0
Moga	765	804	1:58	768	18:39	0.0	0.0	9.3	0.0	9.3
Agra	765	787	21:40	751	9:13	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	1:53	774	9:09	0.0	0.0	15.8	0.0	15.8
Unnao	765	760	21:59	741	18:57	0.0	0.2	0.0	0.0	0.0
Lucknow	765	785	4:03	760	18:58	0.0	0.0	0.0	0.0	0.0
Meerut	765	801	21:36	760	9:15	0.0	0.0	0.7	0.0	0.7
Jhatikara	765	800	21:59	771	18:39	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	782	1:59	756	9:13	0.0	0.0	0.0	0.0	0.0
Anta	765	793	21:00	772	14:58	0.0	0.0	0.0	0.0	0.0
Phagi	765	799	4:02	765	10:43	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	499.52	1076.64	509.73	1530.03	296.48	570.48
Pong	426.72	384.05	415.20	680.86	419.13	848.35	52.90	246.33
Tehri	829.79	740.04	823.90	1084.68	818.80	978.26	125.20	145.00
Koteshwar	612.50	598.50	609.61	4.42	610.73	4.95	145.00	134.91
Chamera-I	760.00	748.75	759.73	0.00	0.00	0.00	70.00	59.44
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	514.76	4.14	511.97	5.08	47.94	114.59

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-92	0	0	-92	-704	0	-2.20	-2.19	-4.39
Delhi	6	-392	0	-94	22	0	-0.35	-2.47	-2.82
Haryana	16	-130	0	477	360	0	4.39	3.35	7.73
HP	112	-24	0	-6	-192	0	3.96	-2.90	1.06
J&K	161	0	0	161	184	0	5.65	1.00	6.65
CHD	0	0	0	0	0	0	0.00	-0.05	-0.05
Rajasthan	-5	468	0	-7	469	0	-0.13	10.40	10.27
UP	134	0	0	90	-100	0	-3.60	-2.09	-5.68
Uttarakhand	12	261	0	25	320	0	0.40	9.17	9.57
Total	346	184	0	553	359	0	8.12	14.23	22.35

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-92	-92	0	-804	0	0
Delhi	6	-94	215	-498	0	0
Haryana	488	-13	412	-490	0	0
HP	303	-6	255	-688	0	0
J&K	310	161	199	-15	0	0
CHD	0	0	0	0	15	-35
Rajasthan	-5	-7	483	-161	0	0
UP	206	-501	0	-100	0	0
Uttarakhand	25	12	642	141	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. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	0	10
Haryana	2	16
Rajasthan	1	14
Delhi	4	28
UP	1	18
Uttarakhand	2	30
HP	1	13
J & K	3	25
Chandigarh	5	40

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 24.10.2016 :**
Normal**XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****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 : 24.10.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER