पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 27.05.2018

Date of Reporting : 28.05.2018

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
50804	994	51797	49.90	52573	1469	54042	50.04	1226.30	12.18

* 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	Gas/Naptha/ Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	89.32	11.03	0.00	4.16	0.00	2.66	107.16	76.27	74.78	-1.49	181.94	0.00
Haryana	68.87	0.27	0.00	0.16	0.00	0.88	70.18	89.22	91.00	1.78	161.17	0.41
Rajasthan	120.71	0.00	4.72	12.82	6.58	4.46	149.30	81.04	85.51	4.47	234.81	2.37
Delhi	7.05	0.00	22.27	0.00	0.00	0.00	29.32	83.79	83.73	-0.06	113.04	0.63
UP	204.45	12.70	0.00	3.40	0.00	12.00	232.55	185.26	192.82	7.56	425.37	0.00
Uttarakhand	0.00	15.11	6.46	0.67	0.00	0.00	22.23	18.43	20.09	1.66	42.33	0.00
HP	0.00	12.35	0.00	0.00	0.00	3.91	16.27	7.11	9.58	2.47	25.85	0.01
J & K	0.00	18.94	0.00	0.00	0.00	0.00	18.94	22.69	17.50	-5.19	36.44	8.76
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.31	5.34	0.03	5.34	0.00
Total	**490.40**	**70.41**	**33.45**	**21.21**	**6.58**	**23.91**	**645.95**	**569.12**	**580.35**	**11.23**	**1226.30**	12.18

* 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 (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	6786	0	31	21	7610	0	-135	21	8290	23	0
Haryana	7104	0	-78	505	6858	133	100	534	7347	22	0
Rajasthan	8520	0	-40	-12	9419	655	492	-16	10559	8	0
Delhi	4505	27	6	82	5395	0	325	426	5835	24	2
UP	18864	510	192	2009	18505	390	51	2550	18877	21	0
Uttarakhand	1868	0	64	173	1862	0	168	329	1952	23	0
HP	1096	0	8	-1188	1049	0	163	-524	1299	10	0
J&K	1826	457	-138	-370	1648	291	-17	-25	1888	21	472
Chandigarh	234	0	-48	-25	227	0	33	0	270	23	0
Total	**50804**	**994**	**-3**	**1195**	**52573**	**1469**	**1180**	**3294**	**54432**	**24**	**735**

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

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III. Regional Entities :

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

	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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1640	1802	1801	40.06	1669	39.34	0.72
	Rihand I STPS (2*500)	1000	897	993	992	21.48	895	21.41	0.07
	Rihand II STPS (2*500)	1000	471	496	516	11.41	475	11.27	0.14
	Rihand III STPS (2*500)	1000	908	1004	808	21.79	908	21.61	0.18
	Dadri I STPS (4*210)	840	501	562	446	11.37	474	11.70	-0.33
	Dadri II STPS (2*490)	980	531	607	468	12.11	505	12.35	-0.24
	Unchahar I TPS (2*210)	420	382	340	424	8.76	365	9.07	-0.31
	Unchahar II TPS (2*210)	420	382	334	418	8.67	361	8.97	-0.30
	Unchahar III TPS (1*210)	210	191	153	206	4.25	177	4.48	-0.23
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjhar) (3*500)	1500	605	648	663	14.20	592	14.37	-0.17
	Dadri GPS (4*130.19+2*154.51)	830	0	243	264	5.78	241	6.25	-0.48
	Anta GPS (3*88.71+1*153.2)	419	0	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	0	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	0.05	2	0.05	0.00
	Singrauli Solar(15)	15	2	0	0	0.06	3	0.05	0.01
	KHEP(4*200)	800	872	747	0	7.09	295	6.60	0.49
	Sub Total (A)	**12612**	**7386**	**7929**	**7006**	**167**	**6962**	**168**	**-0.45**
B. NPC	NAPS (2*220)	440	184	193	212	4.18	174	4.42	-0.24
	RAPS- B (2*220)	440	357	395	403	8.55	356	8.57	-0.02
	RAPS- C (2*220)	440	410	454	453	9.82	409	9.78	0.04
	Sub Total (B)	**1320**	**951**	**1042**	**1068**	**22.56**	**940**	**22.77**	**-0.21**
C. NHPC	Chamera I HPS (3*180)	540	534	549	361	7.48	312	7.20	0.28
	Chamera II HPS (3*100)	300	296	298	304	7.11	296	7.01	0.10
	Chamera III HPS (3*77)	231	228	233	232	4.78	199	4.61	0.17
	Bairasuil HPS(3*60)	180	61	121	53	1.51	63	1.44	0.07
	Salal-HPS (6*115)	690	475	684	445	12.23	510	11.40	0.83
	Tanakpur-HPS (3*31.4)	94	38	41	44	1.13	47	0.90	0.23
	Uri-I HPS (4*120)	480	475	483	483	11.66	486	11.40	0.26
	Uri-II HPS (4*60)	240	238	242	245	5.81	242	5.70	0.11
	Dhauliganga-HPS (4*70)	280	277	281	144	3.26	136	3.17	0.09
	Dulhasti-HPS (3*130)	390	387	407	405	9.49	395	9.28	0.21
	Sewa-II HPS (3*40)	120	119	126	0	0.62	26	0.60	0.02
	Parbati 3 (4*130)	520	73	513	104	1.81	75	1.75	0.06
	Kishanganga(3*110)	330	0	164	165	3.90	163	3.79	0.11
	Sub Total (C)	**4395**	**3200**	**4142**	**2985**	**71**	**2949**	**68**	**2.53**
D.SJVNL	NJPC (6*250)	1500	1497	1485	499	20.91	871	20.50	0.41
	Rampur HEP (6*68.67)	412	412	374	143	5.88	245	5.69	0.19
	Sub Total (D)	**1912**	**1910**	**1859**	**642**	**26.79**	**1116**	**26.19**	**0.60**
E. THDC	Tehri HPS (4*250)	1000	520	527	0	3.97	166	3.92	0.05
	Koteshwar HPS (4*100)	400	86	203	70	2.08	87	2.07	0.01
	Sub Total (E)	**1400**	**606**	**730**	**70**	**6.05**	**252**	**5.99**	**0.06**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	606	932	442	14.67	611	14.55	0.12
	Dehar HPS (6*165)	990	449	660	330	10.86	452	10.78	0.08
	Pong HPS (6*66)	396	68	150	0	1.64	68	1.63	0.01
	Sub Total (F)	**2765**	**1124**	**1742**	**772**	**27.17**	**1132**	**26.96**	**0.21**
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	69	91	1.97	82	2.35	-0.38
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1021	0	11.54	481	11.29	0.25
	Malana Stg-II HPS (2*50)	100	0	100	85	1.11	46	1.04	0.07
	Shree Cement TPS (2*150)	300	0	186	260	5.71	238	6.23	-0.52
	Budhil HPS(IPP) (2*35)	70	0	70	45	1.00	42	1.37	-0.37
	Sainj HPS (IPP) (2*50)	100	0					1.18	
	Sub Total (G)	**1762**	**0**	**1445**	**481**	**21.33**	**889**	**22.28**	**-0.95**
H. Total Regional Entities (A-G)		**26167**	**15176**	**18889**	**13023**	**341.77**	**14240**	**339.98**	**1.79**

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	720	740	15.76	657
	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	747	754	17.09	712
	Goindwal(GVK) (2*270)	540	145	0	3.34	139
	Rajpura (2*700)	1400	660	1320	26.47	1103
	Talwandi Saboo (3*660)	1980	924	1400	26.68	1112
	Thermal (Total)	**6560**	**3196**	**4214**	89.32	**3722**
	Total Hydro	1000	542	437	11.03	460
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	2.66	111
	Solar	859	0	0	4.16	173
	Renewable(Total)	**1162**	**0**	**0**	**6.81**	**284**
	Total Punjab	**8722**	**3738**	**4651**	**107.16**	**4465**
Haryana	Panipat TPS (2*210+2*250)	920	750	804	18.49	770
	DCRTPP (Yamuna nagar) (2*300)	600	461	565	12.36	515
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	806	1023	23.27	969
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	616	607	14.75	615
	Thermal (Total)	**4497**	**2633**	**2999**	**68.87**	**2870**
	Total Hydro	62	13	18	0.27	11
	Wind Power	0	0	0	0.00	0
	Biomass	106	0	0	0.88	37
	Solar	50	0	0	0.16	7
	Renewable(Total)	**156**	**0**	**0**	**1.04**	**44**
	Total Haryana	**4715**	**2646**	**3017**	**70.18**	**2924**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	943	1052	26.48	1103
	suratgarh TPS (6*250)	1500	1095	1341	30.33	1264
	Chabra TPS (4*250)	1000	630	689	16.48	687
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	15	15	0.38	16
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	176	177	4.35	181
	RAPS A (NPC) (1*100+1*200)	300	173	172	4.03	168
	Barsingsar (NLC) (2*125)	250	223	223	5.18	216
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	735	846	18.60	775
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	445	543	13.03	543
	Kawai(Adani) (2*660)	1320	444	457	10.62	443
	Thermal (Total)	**9536**	**4879**	**5515**	**129.47**	**5394**
	Total Hydro	550	29	0	0.00	0
	Wind power	4292	191	388	6.58	274
	Biomass	102	18	18	0.43	18
	Solar	1995	0	0	12.82	534
	Renewable/Others (Total)	6389	209	406	19.83	826
	Total Rajasthan	**16475**	**5117**	**5921**	**149.30**	**6221**
UP	Anpara TPS (3*210+2*500)	1630	2189	1315	33.30	1388
	Obra TPS (2*50+2*94+5*200)	1194	483	479	11.30	471
	Paricha TPS (2*110+2*220+2*250)	1160	693	705	15.20	633
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	546	551	12.80	533
	Tanda TPS (NTPC) (4*110)	440	392	390	8.45	352
	Roza TPS (IPP) (4*300)	1200	892	928	21.40	892
	Anpara-C (IPP) (2*600)	1200	1096	1082	26.00	1083
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	224	401	7.30	304
	Anpara-D(2*500)	1000	903	803	21.60	900
	Lalitpur TPS(3*660)	1980	1238	911	22.10	921
	Bara(3*660)	1980	1117	1100	25.00	1042
	Thermal (Total)	**13109**	**9773**	**8665**	**204.45**	**8519**
	Vishnuparyag HPS (IPP)(4*110)	440	295	340	7.20	300
	Alaknanada(4*82.5)	330	154	164	3.00	125
	Other Hydro	527	103	183	2.50	104
	Cogeneration	1360	500	500	12.00	500
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	472	0	0	3.40	142
	Renewable(Total)	**498**	**0**	**0**	**3.40**	**142**
	Total UP	**16264**	**10825**	**9852**	**232.55**	**9690**
Uttarakhand	Other Hydro	1250	683	556	15.11	630
	Total Gas	450	264	274	6.46	269
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.67	28
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	407	0	0	0.67	28
	Total Uttarakhand	**2107**	**947**	**830**	**22.23**	**926**
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	0	0	-0.03	-1
	Pragati Gas Turbine (2x104+ 1x122)	330	269	299	6.79	283
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	621	741	15.51	646
	Badarpur TPS (NTPC) (3*95+2*210)	705	307	361	7.05	294
	Thermal (Total)	**2917**	**1197**	**1401**	**29.32**	**1222**
	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**	**1197**	**1401**	**29.32**	**1222**

HP	Baspa HPS (IPP) (3*100)	300	121	241	4.10	171
	Malana HPS (IPP) (2*43)	86	62	76	0.96	40
	Other Hydro (>25MW)	372	322	346	7.30	304
	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	171	152	3.91	163
	Renewable(Total)	**486**	**171**	**152**	**3.91**	**163**
	Total HP	**1244**	**676**	**814**	**16.27**	**678**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	677	678	15.46	644
	Other Hydro/IPP(including 98 MW Small Hydro)	308	159	132	3.49	145
	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 Abov	98	0	0	0.00	0
	Renewable(Total)	**98**	**0**	**0**	**0.00**	**0**
	Total J & K	**1398**	**836**	**810**	**18.94**	**789**
Total State Control Area Generation		**53860**	**25982**	**27296**	**645.95**	**26914**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**7027**	**9815**	**261.44**	**10893**
Total Regional Availability(Gross)		**80027**	**51898**	**50135**	**1249.16**	**52048**

IV. Total Hydro Generation:

Regional Entities Hydro	**12564**	**10410**	**4645**	**153.50**	**6354**
State Control Area Hydro	**7468**	**3595**	**3596**	**70.41**	**3393**
Total Regional Hydro	**20032**	**14004**	**8241**	**223.91**	**9748**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.13**	**5**
State Control Area Renewable	**9214**	**380**	**558**	**35.67**	**1486**
Total Regional Renewable	**9244**	**380**	**558**	**35.80**	**1492**

VI(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
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-250	250	250	250	3.83	0.51	3.33
765 KV Gwalior-Agra (D/C)	1119	1382	1409	0	26.49	0.00	26.49
400 KV Zerda-Kankroli	-224	-152	0	283	0.00	5.14	-5.14
400 KV Zerda-Bhinmal	-88	-108	9	235	0.00	2.82	-2.82
220 KV Auraiya-Malanpur	32	59	0	2	0.73	0.00	0.73
220 KV Badod-Kota/Morak	-92	31	48	80	0.00	0.27	-0.27
Mundra-Mohindergarh(HVDC Bipole)	1303	1298	1305	0	31.49	0.00	31.49
400 KV RAPPC-Sujalpur	164	238	290	0	4.08	0.00	4.08
400 KV Vindhyachal-Rihand	-956	-761	0	958	0.00	22.00	-22.00
765 kV Phagi-Gwalior (D/C)	910	1494	776	0	31.61	0.00	31.61
+/- 800 kV HVDC Champa-Kurushetra	2300	2300	2300	0	54.50	0	54.50
765KV Orai-Jabalpur	0	0	0	0	18.88	0	18.88
765KV Orai-Satna	0	0	0	0	41.62	0	41.62
765KV Orai-Gwalior	0	0	0	0	0.00	6	-6.25
Sub Total WR	**4218**	**6031**			**213.23**	**36.98**	**176.25**
400 kV Sasaram - Varanasi	-9	-34	17	62	0.00	1.22	-1.22
400 kV Sasaram - Allahabad	-95	-64	113	0	0.00	1.66	-1.66
400 KV MZP- GKP (D/C)	234	452	596	0	9.93	0.00	9.93
400 KV Patna-Balia(D/C) X 2	571	719	918	0	17.47	0.00	17.47
400 KV B'Sharif-Balia (D/C)	319	446	522	0	10.10	0.00	10.10
765 KV Gaya-Balia	382	602	602	0	12.17	0.00	12.17
765 KV Gaya-Varanasi (D/C)	139	275	276	0	4.98	0.00	4.98
220 KV Pusauli-Sahupuri	190	169	191	0	5.17	0.00	5.17
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.66	-0.66
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-133	6	170	155	0.35	0.00	0.35
400 KV Motihari -GKP (D/C)	242	138	254	0	2.91	0.00	2.91
400 kV B'Sharif - Varanasi (D/C)	-31	75	185	140	1.57	0.00	1.57
+/- 800 KV HVDC Alipurduar-Agra	500	500	500	0	12.06	0.00	12.06
Sub Total ER	**2309**	**3284**			**76.71**	**3.54**	**73.16**
+/- 800 KV HVDC BiswanathCharialli-Agra	500	500	500	0.00	12.03	0.00	12.03
Sub Total NER	**500**	**500**			**12.03**	**0.00**	**12.03**
Total IR Exch	**7027**	**9815**			**301.96**	**40.52**	**261.44**

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**
59.07	1.52	60.59	26.98	2.68	0.38	6.71	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**
86.43	158.48	244.91	85.19	176.25	261.44	-1.24	17.77	16.53

VI(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
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-23	-12	0	26	0	0	-0.47

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	2.20	16.00	71.40	78.70	4.90	0.60	0.00	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev
Maximum		Minimum		Frequency	Variation		MAX	MIN	Index (% of Time)
Freq	**Time**	**Freq**	**Time**	**Hz**	**Index**		(Hz)	(Hz)	
50.13	6.01	49.72	0.14	49.96	0.060	0.065	50.05	49.80	21.30

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	404	06:01	400	22:13	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	05:15	394	19:21	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	413	07:34	396	00:14	0.0	0.0	0.0	0.0	0.0
Kanpur	400	414	06:03	400	00:25	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	06:00	398	00:05	0.0	0.0	0.0	0.0	0.0
Ballabhgarh	400	412	06:01	396	00:23	0.0	0.0	0.0	0.0	0.0
Bawana	400	410	06:00	396	00:00	0.0	0.0	0.0	0.0	0.0
Bassi	400	413	18:01	392	22:15	0.0	0.0	0.0	0.0	0.0
Hissar	400	407	06:02	396	00:12	0.0	0.0	0.0	0.0	0.0
Moga	400	407	06:01	396	14:48	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	413	06:02	401	14:41	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	415	06:05	403	00:13	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	407	06:01	400	13:41	0.0	0.0	0.0	0.0	0.0
Wagoora	400	403	05:44	391	13:55	0.0	0.0	0.0	0.0	0.0
Amritsar	400	410	18:02	399	14:24	0.0	0.0	0.0	0.0	0.0
Kashipur	400	402	00:00	402	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	07:40	392	00:13	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 Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	771	23:59	743	19:37	0.0	0.0	0.0	0.0	0.0
Balia	765	787	18:15	759	19:36	0.0	0.0	0.0	0.0	0.0
Moga	765	783	06:01	761	00:12	0.0	0.0	0.0	0.0	0.0
Agra	765	783	06:01	750	22:15	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	796	06:01	771	22:12	0.0	0.0	0.0	0.0	0.0
Unnao	765	768	06:01	744	00:14	0.0	0.0	0.0	0.0	0.0
Lucknow	765	792	06:01	764	19:38	0.0	0.0	0.0	0.0	0.0
Meerut	765	795	06:01	672	20:06	0.1	0.1	0.0	0.0	0.1
Jhatikara	765	785	06:01	753	00:25	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	796	07:26	767	00:14	0.0	0.0	0.0	0.0	0.0
Anta	765	790	06:04	766	22:15	0.0	0.0	0.0	0.0	0.0
Phagi	765	794	06:01	757	13:48	0.0	0.0	0.0	0.0	0.0

Note : "0" in Max / Min Col -> Telemetry Outage

IX. Reservior Parameters:

Name of Reservior	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	455.57	86.44	471.47	293.05	467.28	556.99
Pong	426.72	384.05	392.25	84.61	394.57	121.45	27.69	137.53
Tehri	829.79	740.04	744.05	19.29	745.05	24.23	98.77	142.00
Koteshwar	612.50	598.50	610.73	4.95	609.60	4.44	142.00	137.04
Chamera-I	760.00	748.75	753.95	0.00	0.00	0.00	200.36	203.00
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	498.96	2.85	513.60	6.75	168.92	156.03

*** 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	121	-101	0	121	-101	0	2.92	-2.41	0.51
Delhi	647	-221	0	548	-466	0	15.21	-7.65	7.56
Haryana	374	160	0	496	9	0	4.13	2.40	6.53
HP	-362	-162	0	-818	-370	0	-10.17	-6.12	-16.29
J&K	-749	724	0	-749	379	0	-17.97	11.73	-6.24
CHD	0	0	0	0	-25	0	0.00	0.08	0.08
Rajasthan	-8	-7	0	-8	-4	0	-0.20	11.18	10.98
UP	1732	818	0	1221	788	0	38.61	5.17	43.78
Uttarakhand	64	265	0	59	114	0	1.27	2.65	3.92
Total	**1819**	**1475**	**0**	**871**	**324**	**0**	**33.80**	**17.03**	**50.83**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	121	121	-101	-101	0	0
Delhi	748	547	384	-1153	0	0
Haryana	519	-221	328	7	0	0
HP	-120	-920	-63	-823	0	0
J&K	-749	-749	724	264	0	0
CHD	0	0	40	-25	0	0
Rajasthan	-8	-8	1838	-40	0	0
UP	1757	1191	1083	-709	0	0
Uttarakhand	64	34	305	6	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	**29.86%**
ER	**0.00%**
Simultaneous	**27.08%**

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

WR	**45.14%**
ER	**0.00%**
Simultaneous	**53.47%**

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

Rihand - Dadri	**0.00%**

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	21
Haryana	2	13
Rajasthan	4	27
Delhi	5	22
UP	0	7
Uttarakhand	3	24
HP	4	35
J & K	2	15
Chandigarh	6	53

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 27.05.2018 :

XVI. Synchronisation of new generating units :

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

0.00

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 : 27.05.2018 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**