

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.03.2018

Date of Reporting : 31.03.2018



I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
38831	516	39347	50.05	35512	1220	36732	49.92	886.52	11.95

*Half hourly (one 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)							UI (OD:(+ve), UD:(-ve))		Consumption (Net MU)	Shortages* (MU)	
	Thermal	Hydro	Gas/Naphtha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total	Drawal Schedule (Net MU)	Actual Drawal (Net MU)			
Punjab	85.30	4.65	0.00	3.24	0.00	2.90	96.09	31.42	31.82	0.40	127.91	0.00
Haryana	68.14	0.34	4.52	0.18	0.00	1.26	74.44	43.73	44.73	1.00	119.17	0.00
Rajasthan	106.86	0.01	3.33	0.00	3.08	4.92	118.19	49.32	55.64	6.33	173.83	1.85
Delhi	0.00	0.00	14.69	0.00	0.00	0.00	14.69	61.36	60.81	-0.55	75.50	0.11
UP	157.30	5.49	0.00	2.63	0.00	21.60	187.01	98.34	98.11	-0.23	285.12	0.00
Uttarakhand	0.00	6.47	0.00	0.68	0.00	0.00	7.15	27.57	28.23	0.66	35.38	0.31
HP	0.00	2.97	0.00	0.00	0.00	2.86	5.82	19.97	20.90	0.93	26.72	0.34
J & K	0.00	5.42	0.00	0.00	0.00	0.00	5.42	37.12	34.07	-3.05	39.48	9.33
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.14	3.41	0.27	3.41	0.00
Total	417.60	25.33	22.54	6.73	3.08	33.53	508.81	371.96	377.71	5.75	886.52	11.95

* 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 (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	5541	0	46	-1269	4267	0	-8	-1118	5898	9	0
Haryana	5591	0	-78	-555	4736	0	35	-644	6471	20	0
Rajasthan	6924	0	222	-90	6929	477	434	-689	8797	8	0
Delhi	3519	0	-80	-624	2641	0	145	-954	3675	20	0
UP	12161	35	78	18	13182	470	192	1	13671	6	90
Uttarakhand	1822	0	101	694	1343	0	12	632	1822	19	0
HP	1172	0	117	-56	909	25	37	398	1386	10	25
J&K	1924	481	-27	624	1406	248	-137	604	2125	21	531
Chandigarh	177	0	-9	-45	99	0	10	-26	177	19	0
Total	38831	516	370	-1304	35512	1220	720	-1795	39595	20	477

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

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 (OG:(+ve), UD:(-ve))	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	580	695	686	15.42	642	13.91	1.50	
Rihand I STPS (2*500)	1000	450	487	505	10.90	454	10.80	0.10	
Rihand II STPS (2*500)	1000	943	971	1030	22.75	948	22.62	0.13	
Rihand III STPS (2*500)	1000	943	955	1006	22.49	937	22.62	-0.13	
Dadri I STPS (4*210)	840	769	678	634	14.25	594	14.68	-0.43	
Dadri II STPS (2*490)	980	928	712	689	19.57	815	19.70	-0.13	
Unchahar I TPS (2*210)	420	382	252	420	7.18	299	7.41	-0.23	
Unchahar II TPS (2*210)	420	382	248	420	7.57	315	7.73	-0.16	
Unchahar III TPS (1*210)	210	191	136	210	3.69	154	3.88	-0.19	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	906	975	887	20.26	844	19.95	0.31	
Dadri GPS (4*130.19+2*154.51)	830	805	142	190	3.62	151	3.71	-0.09	
Anta GPS (3*88.71+1*153.2)	419	404	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	646	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	3	0	0	0.07	3	0.06	0.01	
KHEP(4*200)	800	792	778	207	2.42	101	2.38	0.04	
Sub Total (A)	12612	9125	7029	6884	150	6261	150	0.75	
B. NPC									
NAPS (2*220)	440	393	427	429	9.40	392	9.43	-0.03	
RAPS- B (2*220)	440	388	429	431	9.31	388	9.21	0.09	
RAPS- C (2*220)	440	200	230	230	4.71	196	4.80	-0.09	
Sub Total (B)	1320	981	1086	1090	23.42	976	23.44	-0.02	
C. NHPC									
Chamera I HPS (3*180)	540	534	537	0	2.32	97	2.20	0.12	
Chamera II HPS (3*100)	300	296	299	0	1.80	75	1.75	0.05	
Chamera III HPS (3*77)	231	228	232	0	1.14	48	1.10	0.04	
Bairasuli HPS(3*60)	180	55	182	0	1.16	48	1.09	0.07	
Salal-HPS (6*115)	690	109	483	69	3.53	147	2.57	0.96	
Tanakpur-HPS (3*31.4)	94	16	32	15	0.43	18	0.40	0.03	
Uri-I HPS (4*120)	480	227	343	236	6.01	250	5.44	0.57	
Uri-II HPS (4*60)	240	136	142	112	3.32	138	3.26	0.06	
Dhauliganga-HPS (4*70)	280	207	213	0	0.92	38	0.84	0.08	
Dulhasti-HPS (3*130)	390	385	404	0	3.46	144	3.20	0.26	
Sewa-II HPS (3*40)	120	119	118	0	1.19	50	1.25	-0.06	
Parbati 3 (4*130)	520	16	132	0	0.40	17	0.39	0.02	
Sub Total (C)	4065	2329	3116	432	26	1070	23	2.21	
D. SJVNL									
NJPC (6*250)	1500	1497	1481	0	7.16	298	7.25	-0.09	
Rampur HEP (6*68.67)	412	412	410	0	2.02	84	2.01	0.01	
Sub Total (D)	1912	1910	1891	0	9.18	383	9.26	-0.08	
E. THDC									
Tehri HPS (4*250)	1000	536	535	0	6.00	250	6.06	-0.06	
Koteswar HPS (4*100)	400	111	298	91	2.70	113	2.66	0.05	
Sub Total (E)	1400	647	833	91	8.70	363	8.72	-0.01	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	536	1038	403	13.00	542	12.86	0.14	
Dehar HPS (6*165)	990	153	495	0	3.91	163	3.68	0.23	
Pong HPS (6*66)	396	31	156	0	0.82	34	0.74	0.08	
Sub Total (F)	2765	720	1689	403	17.73	739	17.28	0.44	
G. IPP(s)/JV(s)									
Allain Duhangan HPS(IPP) (2*96)	192	0	12	0	0.38	16	0.37	0.01	
Karcham Wantoo HPS(IPP) (4*250)	1000	0	825	0	4.00	167	4.03	-0.03	
Malana Stg-II HPS (2*50)	100	0	0	0	0.22	9	0.21	0.01	
Shree Cement TPS (2*150)	300	0	259	262	6.16	257	6.37	-0.21	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.21	9	0.21	0.00	
Sainj HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.00	0.00	
Sub Total (G)	1762	0	1096	262	10.97	457	11.19	-0.22	
H. Total Regional Entities (A-G)	25837	15711	16741	9163	245.95	10248	242.88	3.07	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average S entout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	520	520	12.59	525	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.01	1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	366	361	9.04	377	
	Goindwal(GVK) (2*270)	540	0	0	0.04	2	
	Rajpura (2*700)	1400	1320	1320	30.76	1282	
	Talwandi Saboo (3*660)	1980	1400	1060	32.86	1369	
	Thermal (Total)	6560	3606	3261	85.30	3554	
	Total Hydro	1000	68	105	4.65	194	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.90	121	
	Solar	859	0	0	3.24	135	
	Renewable(Total)	1162	0	0	6.13	256	
	Total Punjab	8722	3674	3366	96.09	4004	
	Haryana	Panipat TPS (2*210+2*250)	920	579	606	14.90	621
		DCRTPP (Yamuna nagar) (2*300)	600	271	289	6.48	270
		Faridabad GPS (NTPC)(2*137.75+1*156)	432	191	194	4.52	188
RGTPP (khedar) (IPP) (2*600)		1200	919	1004	24.20	1009	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	956	1057	22.57	940	
Thermal (Total)		4497	2916	3150	72.66	3027	
Total Hydro		62	4	15	0.34	14	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	1.26	53	
Solar		50	0	0	0.18	8	
Renewable(Total)		156	0	0	1.45	60	
Total Haryana		4715	2920	3165	74.44	3102	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	820	940	20.63	859
		suratgarh TPS (6*250)	1500	593	429	13.19	550
		Chabra TPS (4*250)	1000	929	1264	26.87	1120
	Chabra TPS (1*660)	660	0	0	0.00	0	
	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	99	106	3.33	139	
	RAPS A (NPC) (1*100+1*200)	300	183	187	4.28	178	
	Barsingsar (NLC) (2*125)	250	170	180	3.84	160	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	723	726	17.28	720	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	533	553	13.27	553	
	Kawai(Adani) (2*660)	1320	560	138	11.77	491	
	Thermal (Total)	9536	4610	4523	114.46	4769	
	Total Hydro	550	18	20	0.01	1	
	Wind power	4292	171	10	3.08	128	
	Biomass	102	27	27	0.64	27	
	Solar	1995	0	0	0.00	0	
	Renewable/Others (Total)	6389	198	37	3.72	155	
	Total Rajasthan	16475	4826	4580	118.19	4925	
UP	Anpara TPS (3*210+2*500)	1630	1321	1369	33.35	1390	
	Obra TPS (2*50+2*94+5*200)	1194	293	294	6.63	276	
	Paricha TPS (2*110+2*220+2*250)	1160	575	843	16.69	696	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqani TPS (1*60+1*105+2*250)	665	258	545	8.27	345	
	Tanda TPS (NTPC) (4*110)	440	192	397	6.76	282	
	Roza TPS (IPP) (4*300)	1200	445	660	12.24	510	
	Anpara-C (IPP) (2*600)	1200	1082	1068	23.43	976	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	455	360	9.95	415	
	Lalitpur TPS(3*660)	1980	691	1227	22.28	928	
	Bara(3*660)	1980	761	746	17.69	737	
	Thermal (Total)	13109	6073	7509	157.30	6554	
	Vishnuparvaq_HPS (IPP)(4*110)	440	68	68	1.61	67	
	Alaknanda(4*82.5)	330	82	0	1.05	44	
	Other Hydro	527	76	206	2.83	118	
	Cogeneration	981	900	900	21.60	900	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	102	0	0	2.63	110	
Renewable(Total)	128	0	0	2.63	110		
Total UP	15515	7199	8683	187.01	7792		
Uttarakhand	Other Hydro	1250	435	280	6.47	270	
	Total Gas	450	0	0	0.00	0	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.68	28	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.68	28	
	Total Uttarakhand	2107	435	280	7.15	298	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	36	38	0.88	37	
	Pragati Gas Turbine (2x104+ 1x122)	330	149	155	3.63	151	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	261	451	10.18	424	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	446	643	14.69	612	
	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	446	643	14.69	612		

HP	Baspa HPS (IPP) (3*100)	300	30	0	0.92	38
	Malana HPS (IPP) (2*43)	86	0	0	0.21	9
	Other Hydro (>25MW)	372	57	35	1.83	76
	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	158	61	2.86	119
	Renewable(Total)	486	158	61	2.86	119
	Total HP	1244	244	97	5.82	243
	Total J & K	1398	366	198	5	226
J & K	900	296	148	4.00	167	
Other Hydro/IPP(including 98 MW Small Hydro)	308	70	50	1.41	59	
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	366	198	5	226	
Total State Control Area Generation	53111	20111	21012	508.81	21200	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))	4936	4744	4744	153.93	6414	
Total Regional Availability(Gross)	78948	41787	34919	908.69	37662	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9145	1133	68.53	2846
State Control Area Hydro	7468	1361	989	25.33	1203
Total Regional Hydro	19702	10506	2122	93.86	4050

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.15	6
State Control Area Renewable	8844	356	98	17.46	728
Total Regional Renewable	8874	356	98	17.61	734

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

Element	Peak(19:00 Hrs)		Dff Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	250	150	250	0	4.47	0.00	4.47	0.00	4.47
765 KV Gwalior-Agra (D/C)	1711	1761	2398	0	46.78	0.00	46.78	0.00	46.78
400 KV Zerda-Kankroli	-365	-361	0	409	0.00	7.95	-7.95	-7.95	-7.95
400 KV Zerda-Bhinmal	-275	-276	0	350	0.00	5.68	-5.68	-5.68	-5.68
220 KV Aurajya-Malanpur	-75	-62	0	129	0.00	1.33	-1.33	-1.33	-1.33
220 KV Badod-Kota/Morak	-73	-10	70	84	0.11	0.00	0.11	0.00	0.11
Mundra-Mohindergarh(HVDC Bipole)	302	298	305	0	7.34	0.00	7.34	0.00	7.34
400 KV RAPPCC-Sujalpur	250	199	475	0	6.00	0.00	6.00	0.00	6.00
400 KV Vindhychal-Rihand	-946	-962	0	967	0.00	22.70	-22.70	-22.70	-22.70
765 kV Phagi-Gwalior (D/C)	979	957	1485	0	26.13	0.00	26.13	0.00	26.13
+/- 800 kV HVDC Champa-Kurushetra	0	0	0	0	14.69	0	14.69	0	14.69
765KV Orai-Jabalpur	0	0	0	0	11.84	0	11.84	0	11.84
765KV Orai-Satna	0	0	0	0	36.38	0	36.38	0	36.38
765KV Orai-Gwalior	1500	1200	1500	0	0.00	15	-15.47	15	-15.47
Sub Total WR	3258	2894			153.76	53.13	100.63	100.63	100.63
400 kV Sasaram - Varanasi	60	25	49	60	0.14	0.00	0.14	0.00	0.14
400 kV Sasaram - Allahabad	41	113	47	113	0.00	0.82	-0.82	0.82	-0.82
400 kV MZP- GKP (D/C)	382	62	422	21	4.87	0.00	4.87	0.00	4.87
400 KV Patna-Balia(D/C) X 2	578	423	745	0	12.58	0.00	12.58	0.00	12.58
400 KV B'Sharif-Balia (D/C)	93	124	292	0	4.81	0.00	4.81	0.00	4.81
765 KV Gaya-Balia	105	256	450	0	7.38	0.00	7.38	0.00	7.38
765 KV Gaya-Varanasi (D/C)	210	109	466	0	6.40	0.00	6.40	0.00	6.40
220 KV Pusauli-Sahupuri	172	141	172	0	3.02	0.00	3.02	0.00	3.02
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.63	-0.63	0.63	-0.63
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	56	-84	206	93	1.42	0.00	1.42	0.00	1.42
400 KV Mothari-GKP (D/C)	82	158	330	0	4.47	0.00	4.47	0.00	4.47
400 kV B'Sharif - Varanasi (D/C)	-101	23	214	23	2.53	0.00	2.53	0.00	2.53
+/- 800 KV HVDC Alipurduar-Agra	0	500	500	0	7.14	0.00	7.14	0.00	7.14
Sub Total ER	1678	1850			54.75	1.45	53.30	53.30	53.30
+/- 800 KV HVDC BiswanathChariali-Agra	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total NER	0	0			0.00	0.00	0.00	0.00	0.00
Total IR Exch	4936	4744			208.51	54.58	153.93	153.93	153.93

VI(B). Inter Regional Schedule & Actual Exchanges (Import (+ve)/Export (-ve)) [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
58.55	0.08	58.64	-7.99	-22.49	-4.12	-1.64	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
46.52	99.79	146.31	53.30	100.63	153.93	6.78	0.85	7.62

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

Element	Peak(19:00 Hrs)		Dff Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-40	-36	0	40	0	1	-0.79	1	-0.79

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	0.01	4.87	53.38	80.27	12.87	2.51	0.09	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)	
50.22	6.03	49.80	0.09	49.99	0.032	0.057	50.09	49.89	19.73

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	405	18:25	400	12:49	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	21:57	406	0:06	0.0	0.0	1.7	0.0	1.7
Bareilly(PG)400kV	400	416	8:01	406	10:55	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	7:59	410	11:43	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	2:31	407	19:13	0.0	0.0	0.4	0.0	0.4
Ballabgarh	400	421	2:33	406	19:12	0.0	0.0	4.7	0.0	4.7
Bawana	400	421	3:15	406	19:27	0.0	0.0	1.3	0.0	1.3
Bassi	400	418	2:34	402	19:26	0.0	0.0	0.0	0.0	0.0
Hissar	400	418	2:31	403	19:27	0.0	0.0	0.0	0.0	0.0
Moga	400	421	2:33	406	10:36	0.0	0.0	4.8	0.0	4.8
Abdullapur	400	422	3:17	407	18:58	0.0	0.0	11.1	0.0	11.1
Nalagarh	400	430	23:53	414	10:54	0.0	0.0	56.9	0.0	56.9
Kishenpur	400	426	3:22	408	10:32	0.0	0.0	16.9	0.0	16.9
Wagoora	400	409	3:33	386	11:22	0.0	10.6	0.0	0.0	0.0
Amritsar	400	426	3:15	407	11:03	0.0	0.0	32.0	0.0	32.0
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	422	4:19	407	0:00	0.0	0.0	2.8	0.0	2.8
Rishikesh	400	411	2:35	394	12:43	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	768	8:01	751	0:11	0.0	0.0	0.0	0.0	0.0
Balia	765	785	23:52	765	0:11	0.0	0.0	0.0	0.0	0.0
Moga	765	803	3:15	776	11:08	0.0	0.0	9.9	0.0	9.9
Agra	765	786	3:33	763	20:20	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	1:42	780	17:29	0.0	0.0	0.0	0.0	0.0
Unnao	765	775	21:57	759	16:58	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	8:01	773	0:11	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	3:33	778	19:50	0.0	0.0	14.4	0.0	14.4
Jhatikara	765	796	4:03	771	19:24	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	792	7:59	772	18:58	0.0	0.0	0.0	0.0	0.0
Anta	765	790	1:21	766	0:14	0.0	0.0	0.0	0.0	0.0
Phagi	765	796	1:21	763	0:12	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	472.77	313.90	464.37	186.89	174.54	421.35
Pong	426.72	384.05	394.06	111.75	396.66	151.67	28.03	64.19
Tehri	829.79	740.04	766.35	175.11	763.15	147.08	86.05	180.00
Koteshwar	612.50	598.50	610.05	4.59	610.97	4.95	180.00	178.60
Chamera-I	760.00	748.75	754.30	0.00	0.00	0.00	70.52	61.73
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	495.84	0.77	507.03	0.69	68.44	47.61

* 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	-1118	0	0	-1269	0	0	-28.04	0.00	-28.04
Delhi	-468	-486	0	-473	-151	0	-10.59	-2.91	-13.50
Haryana	-656	12	0	-555	0	0	-16.70	-0.58	-17.28
HP	407	-9	0	202	-258	0	10.33	-2.27	8.06
J&K	516	89	0	516	109	0	11.84	1.69	13.53
CHD	-45	20	0	-45	0	0	-0.54	-0.09	-0.63
Rajasthan	-91	-598	0	-91	0	0	-2.18	-6.87	-9.05
UP	63	-61	0	68	-50	0	1.50	-0.75	0.75
Uttarakhand	196	436	0	196	497	0	4.88	11.32	16.20
Total	-1197	-598	0	-1452	147	0	-29.51	-0.45	-29.96

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-1118	-1421	0	0	0	0
Delhi	-371	-479	195	-516	0	0
Haryana	-505	-964	15	-409	0	0
HP	743	143	175	-671	0	0
J&K	516	471	356	-544	0	0
CHD	0	-45	20	-56	0	0
Rajasthan	-91	-91	195	-1174	0	0
UP	71	49	0	-66	0	0
Uttarakhand	225	196	664	3	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	2.43%

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

WR	1.39%
ER	0.00%
Simultaneous	12.50%

(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	1	13
Haryana	1	23
Rajasthan	5	43
Delhi	3	25
UP	0	8
Uttarakhand	4	32
HP	4	38
J & K	2	22
Chandigarh	5	38

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 30.03.2018 :

XVI. Synchronisation of new generating units :

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

1.125 MVAR Bus Reactor at Hindaun,Rajasthan first time charged at 16:54 hrs. on 30.03.18.
 2.400 KV Abdullapur-Dehradun ckt.2 first time charged and synchronized at 18:46 hrs. on 30.03.18.
 3.315 MVA ICT-3 at Babai,Rajasthan first time charged on No Load from 400 KV side at 20:28 hrs. on 30.03.018.

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 : 30.03.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER