

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.03.2018
Date of Reporting : 25.03.2018



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
40034	976	41010	49.89	35397	290	35687	50.00	900.62	10.35

*Half hourly flow 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* (MU)
	Thermal	Hydro	Gas/Naphtha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	76.77	9.37	0.00	2.92	0.00	2.77	91.83	25.34	25.07	-0.27	116.90	0.00
Haryana	63.83	0.35	6.97	0.18	0.00	1.28	72.60	49.84	52.22	2.38	124.81	0.00
Rajasthan	113.57	2.28	3.96	2.97	3.02	5.02	130.82	52.96	52.64	-0.32	183.46	0.00
Delhi	-0.01	0.00	15.33	0.00	0.00	0.00	15.32	51.55	51.37	-0.18	66.69	0.03
UP	160.90	6.00	0.00	0.00	0.00	21.60	188.50	110.37	111.45	1.08	299.95	0.00
Uttarakhand	0.00	6.62	0.00	0.80	0.00	0.00	7.42	27.73	28.42	0.69	35.84	0.00
HP	0.00	2.77	0.00	0.00	0.00	2.59	5.37	20.30	21.10	0.80	26.47	0.10
J & K	0.00	5.71	0.00	0.00	0.00	0.00	5.71	39.60	37.66	-1.94	43.38	10.22
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.98	3.11	0.13	3.11	0.00
Total	415.08	33.10	26.26	6.88	3.02	33.25	517.58	380.68	383.04	2.36	900.62	10.35

* 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	4904	0	42	-1520	3777	0	7	-1369	5733	12	0
Haryana	5649	0	145	-550	4583	0	132	-486	5993	20	0
Rajasthan	6870	0	85	-40	7763	0	65	-37	9534	8	0
Delhi	3082	0	-91	-538	2181	0	-24	-950	3295	20	0
UP	14592	505	356	67	13191	0	14	37	14592	19	505
Uttarakhand	1763	0	185	679	1308	0	27	627	1818	7	0
HP	1120	0	-106	162	862	0	58	400	1472	8	0
J&K	1885	471	-4	892	1646	290	-71	763	2099	20	525
Chandigarh	169	0	-12	-45	86	0	26	-35	169	19	0
Total	40034	976	600	-894	35397	290	235	-1052	41811	20	665

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

III. Regional Entities :

A. NTPC	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
Rihand I STPS (2*500)	1000	450	498	491	11.01	459	10.72	0.29	
Rihand II STPS (2*500)	1000	943	1031	1002	22.81	951	22.28	0.53	
Rihand III STPS (2*500)	1000	943	1003	979	22.65	944	22.41	0.23	
Dadri I STPS (4*210)	840	769	764	449	14.02	584	14.46	-0.44	
Dadri II STPS (2*490)	980	464	485	278	8.81	367	8.52	0.30	
Unchahar I TPS (2*210)	420	382	398	293	7.03	293	7.18	-0.15	
Unchahar II TPS (2*210)	420	382	332	287	7.24	302	7.22	0.01	
Unchahar III TPS (1*210)	210	191	207	157	3.72	155	3.78	-0.06	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	1036	1139	954	23.68	987	23.89	-0.21	
Dadri GPS (4*130.19+2*154.51)	830	800	183	117	3.59	150	3.67	-0.08	
Anta GPS (3*88.71+1*153.2)	419	406	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	425	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	658	647	0	2.62	109	2.38	0.25	
Sub Total (A)	12612	8984	7822	6649	156	6480	154	1.77	
B. NPC	NAPS (2*220)	440	379	407	427	9.03	376	9.10	-0.07
RAPS- B (2*220)	440	392	434	434	9.34	389	9.30	0.04	
RAPS- C (2*220)	440	200	230	229	4.86	203	4.80	0.06	
Sub Total (B)	1320	971	1071	1090	23.23	968	23.20	0.03	
C. NHPC	Chamera I HPS (3*180)	540	534	549	0	2.71	113	2.50	0.21
Chamera II HPS (3*100)	300	296	301	0	1.42	59	1.30	0.12	
Chamera III HPS (3*77)	231	228	237	0	0.89	37	0.75	0.14	
Bairasuli HPS(3*60)	180	59	181	0	0.86	36	0.75	0.11	
Salal-HPS (6*115)	690	99	539	30	3.22	134	2.37	0.85	
Tanakpur-HPS (3*31.4)	94	18	18	18	0.48	20	0.45	0.03	
Uri-I HPS (4*120)	480	210	360	150	5.40	225	5.05	0.35	
Uri-II HPS (4*60)	240	95	61	111	2.41	100	2.29	0.12	
Dhauliganga-HPS (4*70)	280	140	144	0	0.95	40	0.87	0.08	
Dulhasti-HPS (3*130)	390	385	405	0	2.48	103	2.30	0.18	
Sewa-II HPS (3*40)	120	119	116	0	0.84	35	0.80	0.04	
Parbati 3 (4*130)	520	16	0	0	0.00	0	0.39	-0.39	
Sub Total (C)	4065	2200	2911	309	22	903	20	1.86	
D.SJVNL	NJPC (6*250)	1500	1497	1543	0	6.81	284	6.40	0.41
Rampur HEP (6*68.67)	412	412	405	0	1.84	77	1.78	0.07	
Sub Total (D)	1912	1910	1948	0	8.65	361	8.18	0.47	
E. THDC	Tehri HPS (4*250)	1000	553	553	0	7.20	300	7.20	0.00
Koteswar HPS (4*100)	400	129	188	91	3.20	133	3.11	0.10	
Sub Total (E)	1400	683	741	91	10.41	434	10.31	0.10	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	622	1150	409	15.02	626	14.92	0.10
Dehar HPS (6*165)	990	120	495	0	3.06	127	2.88	0.18	
Pong HPS (6*66)	396	169	212	0	4.14	172	4.07	0.07	
Sub Total (F)	2765	911	1857	409	22.21	926	21.87	0.35	
G. IPP(s)/JV(s)	Allain Duhangan HPS(IPP) (2*96)	192	0	0	0	0.38	16	0.37	0.01
Karcham Wantoo HPS(IPP) (4*250)	1000	0	775	0	3.64	151	3.56	0.08	
Malana Stg-II HPS (2*50)	100	0	0	0	0.19	8	0.18	0.01	
Shree Cement TPS (2*150)	300	0	260	263	6.22	259	6.36	-0.14	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.14	6	0.14	0.00	
Sainj HPS (IPP) (2*50)	100	0	0	0	0.27	0	0.27	0.00	
Sub Total (G)	1762	0	1035	263	10.57	440	10.60	-0.03	
H. Total Regional Entities (A-G)	25837	15658	17384	8811	252.26	10511	247.70	4.55	

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	500	500	11.26	469	
	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	364	363	8.16	340	
	Goindwal(GVK) (2*270)	540	145	145	3.52	147	
	Rajpura (2*700)	1400	1320	1320	31.00	1292	
	Talwandi Saboo (3*660)	1980	656	616	22.86	952	
	Thermal (Total)	6560	2985	2944	76.77	3199	
	Total Hydro	1000	395	246	9.37	390	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.77	115	
	Solar	859	0	0	2.92	122	
	Renewable(Total)	1162	0	0	5.69	237	
	Total Punjab	8722	3380	3190	91.83	3826	
	Haryana	Paripat TPS (2*210+2*250)	920	598	612	15.44	643
		DCRTPP (Yamuna nagar) (2*300)	600	286	289	6.21	259
		Faridabad GPS (NTPC)(2*137.75+1*156)	432	304	284	6.97	290
		RGTPP (kheadar) (IPP) (2*600)	1200	1044	1175	26.91	1121
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	676	558	15.27	636	
Thermal (Total)		4497	2908	2918	70.80	2950	
Total Hydro		62	7	16	0.35	14	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	1.28	53	
Solar		50	0	0	0.18	8	
Renewable(Total)		156	0	0	1.46	61	
Total Haryana		4715	2915	2934	72.60	3025	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	824	821	21.09	879
	suratgarh TPS (6*250)	1500	178	179	4.55	190	
	Chabra TPS (4*250)	1000	1243	1261	28.61	1192	
	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	162	177	3.96	165	
	RAPS A (NPC) (1*100+1*200)	300	187	190	4.39	183	
	Barsingsar (NLC) (2*125)	250	95	100	2.24	93	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	820	839	19.87	828	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1032	1099	22.59	941	
	Kawai(Adani) (2*660)	1320	606	612	14.62	609	
	Thermal (Total)	9536	5147	5278	121.92	5080	
	Total Hydro	550	55	84	2.28	95	
	Wind power	4292	40	48	3.02	126	
	Biomass	102	26	26	0.63	26	
	Solar	1995	0	0	2.97	124	
	Renewable/Others (Total)	6389	66	74	6.62	276	
	Total Rajasthan	16475	5268	5436	130.82	5451	
UP	Anpara TPS (3*210+2*500)	1630	1354	1269	33.80	1408	
	Obra TPS (2*500+2*94+5*200)	1194	308	298	7.10	296	
	Paricha TPS (2*110+2*220+2*250)	1160	711	633	13.50	563	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqani TPS (1*60+1*105+2*250)	665	547	464	10.00	417	
	Tanda TPS (NTPC) (4*110)	440	391	350	7.30	304	
	Roza TPS (IPP) (4*300)	1200	878	936	18.00	750	
	Anpara-C (IPP) (2*600)	1200	1027	1014	22.70	946	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	45	0.40	17	
	Anpara-D(2*500)	1000	453	454	10.80	450	
	Lalitpur TPS(3*660)	1980	615	1283	16.90	704	
	Bara(3*660)	1980	899	907	20.40	850	
	Thermal (Total)	13109	7183	7653	160.90	6704	
	Vishnuparvaq_HPS (IPP)(4*110)	440	68	63	1.50	63	
	Alakanada(4*82.5)	330	83	0	1.00	42	
	Other Hydro	527	227	129	3.50	146	
	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	0.00	0	
Renewable(Total)	128	0	0	0.00	0		
Total UP	15515	8461	8745	188.50	7854		
Uttarakhand	Other Hydro	1250	361	200	6.62	276	
	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	0.80	33	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.80	33	
Total Uttarakhand	2107	361	200	7.42	309		
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	36	38	0.83	35	
	Pragati Gas Turbine (2x104+ 1x122)	330	149	154	3.69	154	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	448	454	10.81	450	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	633	646	15.32	638	
	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	633	646	15.32	638		

HP	Baspa HPS (IPP) (3*100)	300	0	0	0.83	35
	Malana HPS (IPP) (2*43)	86	0	0	0.19	8
	Other Hydro (>25MW)	372	119	30	1.75	73
	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	176	61	2.59	108
	Renewable(Total)	486	176	61	2.59	108
	Total HP	1244	295	91	5.37	224
	Total J & K	1398	235	212	6	238
Total State Control Area Generation		53111	21548	21454	517.58	21566
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4540	6540	145.72	6072
Total Regional Availability(Gross)		78948	43472	36806	915.56	38148

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8879	809	69.92	2908
State Control Area Hydro	7468	1726	1041	33.10	1521
Total Regional Hydro	19702	10604	1850	103.02	4428

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.15	6
State Control Area Renewable	8844	242	135	17.16	715
Total Regional Renewable	8874	242	135	17.31	721

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	250	250	250	0	5.97	0.00	5.97
765 KV Gwalior-Agra (D/C)	1798	2411	2535	0	52.90	0.00	52.90
400 KV Zerda-Kankroli	-426	-289	0	458	0.00	5.90	-5.90
400 KV Zerda-Bhinmal	-357	-206	0	559	0.00	6.98	-6.98
220 KV Auraja-Malanpur	-57	-50	0	112	0.00	1.14	-1.14
220 KV Badod-Kota/Morak	-151	-64	20	151	0.00	1.54	-1.54
Mundra-Mohindergarh(HVDC Bipole)	301	298	304	0	7.37	0.00	7.37
400 KV RAPPCC-Sujalpur	9	207	270	40	3.41	0.00	3.41
400 KV Vindhychal-Rihand	-954	-933	0	966	0.00	22.91	-22.91
765 kV Phagi-Gwalior (D/C)	627	1004	1078	0	20.72	0.00	20.72
+/- 800 kV HVDC Champa-Kurushetra	2100	2100	2100	0	48.40	0	48.40
Sub Total WR	3140	4728			138.76	38.46	100.31
400 kV Sasaram - Varanasi	-34	-40	0	61	0.00	0.83	-0.83
400 kV Sasaram - Allahabad	-57	-99	0	119	0.00	1.96	-1.96
400 kV MZP- GKP (D/C)	58	77	274	3	2.11	0.00	2.11
400 kV Patna-Balia(D/C) X 2	397	498	780	0	12.57	0.00	12.57
400 kV B'Sharif-Balia (D/C)	103	155	244	0	3.95	0.00	3.95
765 KV Gaya-Balia	168	280	331	0	6.51	0.00	6.51
765 KV Gaya-Varanasi (D/C)	11	142	268	0	3.93	0.00	3.93
220 KV Pusauli-Sahupuri	156	138	162	0	3.37	0.00	3.37
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-30	-31	0	37	0.00	0.76	-0.76
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-87	-32	112	87	0.19	0.00	0.19
400 KV Motihari -GKP (D/C)	148	208	266	0	4.45	0.00	4.45
400 kV B'Sharif - Varanasi (D/C)	67	16	145	67	0.32	0.00	0.32
+/- 800 KV HVDC Alipurduar-Agra	500	500	500	0	11.56	0.00	11.56
Sub Total ER	1400	1812			48.96	3.54	45.42
+/- 800 KV HVDC BiswanathChariali-Agra	0	0	0	0.00	0.00	0.00	0.00
Sub Total NER	0	0			0.00	0.00	0.00
Total IR Exch	4540	6540			187.72	42.00	145.72

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
47.62	0.14	47.76	-10.81	-16.80	-0.94	1.13	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
36.01	115.73	151.74	45.42	100.31	145.72	9.41	-15.42	-6.01

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-39	-33	0	40	0	1	-0.86

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	0.14	15.30	75.99	79.27	4.13	1.41	0.05	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.24	18.02	49.77	21.06	49.96	0.051	0.059	50.09	49.85	20.73

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	
Rihand	400	408	3:03	400	19:10	0.0	0.0	0.0	0.0
Gorakhpur	400	416	7:57	395	18:42	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	417	7:58	397	18:41	0.0	0.0	0.0	0.0
Kanpur	400	420	7:59	403	18:44	0.0	0.0	0.0	0.0
Dadri	400	423	4:00	406	18:42	0.0	0.0	7.7	0.0
Ballabgarh	400	421	3:58	404	19:10	0.0	0.0	1.0	0.0
Bawana	400	422	3:54	403	18:42	0.0	0.0	6.7	0.0
Bassi	400	418	4:00	400	19:08	0.0	0.0	0.0	0.0
Hissar	400	419	4:01	402	18:41	0.0	0.0	0.0	0.0
Moga	400	420	0:39	405	18:42	0.0	0.0	0.0	0.0
Abdullapur	400	426	4:00	406	18:38	0.0	0.0	22.9	0.0
Nalagarh	400	429	0:42	412	18:38	0.0	0.0	58.4	0.0
Kishenpur	400	425	4:00	408	19:03	0.0	0.0	12.6	0.0
Wagoora	400	407	4:33	388	19:51	0.0	0.7	0.0	0.0
Amritsar	400	428	4:31	412	18:41	0.0	0.0	25.8	0.0
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	423	0:42	408	6:43	0.0	0.0	2.4	0.0
Rishikesh	400	412	7:43	391	18:44	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	786	8:02	748	9:48	0.0	0.0	0.0	0.0	0.0
Balia	765	781	16:17	753	18:43	0.0	0.0	0.0	0.0	0.0
Moga	765	800	0:40	767	6:28	0.0	0.0	0.0	0.0	0.0
Agra	765	786	13:11	761	19:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	798	4:01	774	18:59	0.0	0.0	0.0	0.0	0.0
Unnao	765	776	8:01	746	18:43	0.0	0.0	0.0	0.0	0.0
Lucknow	765	792	7:59	757	18:44	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	8:01	744	0:14	0.0	0.0	3.0	0.0	3.0
Jhatikara	765	795	4:00	767	18:58	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	796	8:02	759	18:44	0.0	0.0	0.0	0.0	0.0
Anta	765	789	4:01	767	19:11	0.0	0.0	0.0	0.0	0.0
Phagi	765	796	4:01	771	19:05	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	474.91	350.94	465.68	204.14	161.92	498.83
Pong	426.72	384.05	394.64	121.45	396.49	151.67	34.74	334.79
Tehri	829.79	740.04	769.55	204.12	766.45	176.00	39.11	211.00
Koteshwar	612.50	598.50	609.95	4.44	610.70	4.69	211.00	211.58
Chamera-I	760.00	748.75	754.00	0.00	0.00	0.00	58.23	73.18
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	495.79	1.24	504.74	0.66	77.29	69.39

* 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	-1167	-202	0	-1319	-202	0	-29.23	-2.37	-31.60
Delhi	-449	-501	0	-453	-85	0	-10.12	-5.37	-15.50
Haryana	-504	18	0	-554	5	0	-14.16	0.20	-13.96
HP	356	44	0	296	-134	0	10.45	-1.27	9.18
J&K	516	247	0	516	376	0	11.85	6.55	18.41
CHD	-45	10	0	-45	0	0	-0.54	-0.07	-0.62
Rajasthan	-42	4	0	-42	1	0	-1.20	-3.78	-4.98
UP	67	-30	0	67	0	0	1.55	-0.30	1.25
Uttarakhand	196	430	0	196	482	0	4.83	11.08	15.91
Total	-1072	21	0	-1338	444	0	-26.57	4.66	-21.91

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-1167	-1470	0	-202	0	0
Delhi	-351	-457	79	-599	0	0
Haryana	-504	-761	20	4	0	0
HP	692	247	239	-575	0	0
J&K	516	472	435	-412	0	0
CHD	0	-45	20	-55	0	0
Rajasthan	-42	-247	393	-1376	0	0
UP	67	62	0	-35	0	0
Uttarakhand	226	196	607	277	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	18
Rajasthan	1	23
Delhi	2	27
UP	0	11
Uttarakhand	7	68
HP	5	31
J & K	4	31
Chandigarh	4	35

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 24.03.2018 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

1. 765KV 80 MVAR Spare Line reactor (of Fatehabad-Lalitpur line-1) at Fatehabad end first time charged at 20:56 hrs on 24.03.2018.
2. 220 kV Gorakpur(PG)-Bansi line First time charged at 23:43 Hrs on 24.03.2018
3. 220 Bay no 210 and 211 of 220 kV Neebkarori line-1 & 2 are test charged (first time) at 21:50 Hrs & 21:33 Hrs respectively at Mainpuri (PG) S/S.

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 : 24.03.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER