



POWER SYSTEM OPERATION CORPORATION LIMITED
NORTHERN REGIONAL LOAD DESPATCH CENTRE
DAILY OPERATION REPORT OF NORTHERN REGION

Power Supply Position in Northern Region For 23-Oct-2018

Date of Reporting:24-Oct-2018

1. Regional Availability/Demand:

Evening Peak (19:00) MW				Off-Peak (03:00) MW				Day Energy(Net MU)	
Demand Met	Shortage(-)/Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage(-)/Surplus ..	Requirement	Freq (Hz)	Demand Met	Shortage
43,720	1,158	44,878	50.03	35,407	244	35,651	49.99	951	9.03

2(A)State's Load Deails (At State Periphery) in MU:

State	State's Control Area Generation (Net MU)							Drawal Sch (Net MU)	Act Drawal (Net MU)	UI (Net MU)	Requirement (Net MU)	Shortage (Net MU)	Consumption (Net MU)
	Thermal	Hydro	Gas/Naptha/Diesel	Solar	Wind	OthersBiomass/Small Hyd/Co-gen etc.)	Total						
PUNJAB	69.14	14.57	0	3.86	0	8.3	95.86	32.82	32.86	0.04	128.72	0	128.72
HARYANA	38.05	0.56	0	0.15	0	0.27	39.03	95.58	96	0.42	135.13	0.1	135.03
RAJASTHAN	154.76	2.67	2.18	14.62	3.31	4.73	182.26	33.24	33.94	0.7	216.2	0	216.2
DELHI	-0.04	0	17.25	0	0	0	17.21	56.4	55.49	-0.91	72.71	0.01	72.7
UTTAR PRADESH	163.57	13	0	2.6	0	2.4	181.57	115.35	114.42	-0.93	295.99	0	295.99
UTTARAKHAND	0	12.63	7.11	0.68	0	0	20.43	13.41	14.4	0.99	34.83	0	34.83
HIMACHAL PRADESH	0	7.05	0	0	0	4.94	11.99	13.66	14.77	1.11	26.81	0.05	26.76
JAMMU & KASHMIR	0	8.14	0	0	0	0	8.14	34.72	29.45	-5.27	46.46	8.87	37.59
CHANDIGARH	0	0	0	0	0	0	0	3.29	3.32	0.03	3.32	0	3.32
Region	425.48	58.62	26.54	21.91	3.31	20.64	556.49	398.47	394.65	-3.82	960.17	9.03	951.14

2(B)State Demand Met (Peak and off-peak Hrs)

State	Evening Peak (19:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surplus(+)	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Sur ..	UI	STOA/PX Transaction
PUNJAB	5,512	0	-76	-1,801	4,015	0	17	-1,801
HARYANA	6,542	0	29	-527	5,147	0	-77	251
RAJASTHAN	9,101	0	-22	-1,658	8,134	0	258	-1,986
DELHI	3,720	0	-134	-835	2,292	0	7	-1,434
UTTAR PRADESH	13,607	670	-222	205	12,321	0	-56	558
UTTARAKHAND	1,789	0	137	-266	1,203	0	-41	-15
HIMACHAL PRADESH	1,317	0	38	-709	821	0	5	36
JAMMU & KASHMIR	1,952	488	-132	339	1,380	244	-164	300
CHANDIGARH	179	0	-8	-96	95	0	-1	-25
Region	43,719	1,158	-390	-5,348	35,408	244	-52	-4,116

2(C)State's Demand Met in MWs (Maximum Demand Met and Maximum requirement of the day details)

State	Maximum Demand, corresponding shortage and requirement details for the day				Maximum requirement, corresponding shortage and demand details for the day			
	Maximum Demand Met of the day	Time	Shortage(-)/Surplus(+) during at maximum demand	Requirement at the max demand met of the day	Maximum Requirement of the day	Time	Shortage(-)/Surplus(+) during at maximum Requirement	Demand Met at maximum requirement
PUNJAB	5,854	11:00	0	5,854	5,854	11:00	0	5,854
HARYANA	6,542	19:00	0	6,542	6,542	19:00	0	6,542
RAJASTHAN	10,798	8:00	0	10,798	10,798	8:00	0	10,798
DELHI	3,720	19:00	0	3,720	3,720	19:00	0	3,720
UP	14,023	20:00	210	14,233	14,233	20:00	210	14,023
UTTARAKHAND	1,825	18:00	0	1,825	1,825	18:00	0	1,825
HP	1,442	8:00	0	1,442	1,442	8:00	0	1,442
J&K	2,269	7:00	567	2,837	2,837	7:00	567	2,269
CHANDIGARH	179	19:00	0	179	179	19:00	0	179
NR	43,720	19:00	1,158	44,878	44,878	19:00	1,158	43,720

3(A) State Entities Generation:

CHANDIGARH							
Station/Constituents	Inst. Capacity	N/A	N/A	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
NIL							
Total	0	0	0			0	0
Total	0	0	0			0	0

DELHI							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BADARPUR TPS(2 * 210 + 3 * 100)	705	-3	-3	-3	11:00	-0.04	-2
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	-3	-3			-0.04	-2
BAWANA GPS(2 * 253 + 4 * 216)	1,370	877	433	877	20:00	12.47	520
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	34	35	35	09:00	0.91	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	157	163	163	03:00	3.87	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	1,068	631			17.25	719
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	0	0	0			
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	1,065	628			17.21	717

HARIYANA							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	0	236	241	09:00	3.67	153
JHAJJAR(CLP)(2 * 660)	1,320	403	370	615	12:00	11.01	459
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	201	203	209	15:00	4.92	205
RGTPP(KHEDAR)(2 * 600)	1,200	786	765	947	19:00	18.45	769
Total THERMAL	4,065	1,390	1,574			38.05	1,586
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0	00:00	0	0
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	26	37	40	01:00	0.56	23
Total HYDEL	62	26	37			0.56	23
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.27	11
SOLAR(1 * 50)	50	0	0	0		0.15	6
Total HARYANA	4,715	1,416	1,611			39.03	1,626

HIMACHAL PRADESH							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	57	85	0		2.09	87
MALANA (IPP) HPS(2 * 43)	86	75	0	0		0.55	23
OTHER HYDRO HP(1 * 372)	372	218	185	0		4.42	184
Total HYDEL	758	350	270			7.06	294
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	235	218	0		4.94	206
Total SMALL HYDRO	486	235	218			4.94	206
Total HP	1,244	585	488			12	500

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GAS/DIESEL/OTHERS J&K(1 * 190)	190	0	0	0			
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	256	257	0		6.15	256
OTHER HYDRO/IPP J&K(1 * 308)	308	109	64	0		1.99	83
Total HYDEL	1,208	365	321			8.14	339
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 98)	98	0	0	0			
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	365	321			8.14	339

PUNJAB							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GOINDWAL(GVK)(2 * 270)	540	160	160	180		3.87	161
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	0	0	0		-0.12	-5
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	0	0	0		-0.1	-4
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		31.65	1,319
TALWANDI SABO TPS(3 * 660)	1,980	1,425	1,400	1,500		33.85	1,410
Total THERMAL	6,560	2,905	2,880			69.14	2,881
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	701	619	761		14.57	607
Total HYDEL	1,000	701	619			14.57	607
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		8.3	346
SOLAR(1 * 859)	859	0	0	593		3.86	161
Total PUNJAB	8,722	3,606	3,499			95.87	3,995

RAJASTHAN							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BARSINGSAR (IPP) LTPS(2 * 125)	250	170	161	0		4.52	188
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,515	1,605	0		37.37	1,557
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	560	562	0		12.65	527
KAWAI TPS(2 * 660)	1,320	1,252	1,251	0		30.03	1,251
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	984	990	0		22.54	939
RAJWEST (IPP) LTPS(8 * 135)	1,080	829	839	0		19.93	830
SURATGARH TPS (6 * 250)	1,500	1,096	1,096	0		27.72	1,155
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	6,406	6,504			154.76	6,447
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	91	91	0		2.18	91
Total GAS/NAPHTHA/DIESEL	601	91	91			2.18	91
RAPS-A(1 * 100 + 1 * 200)	300	170	161	0		3.98	166
Total NUCLEAR	300	170	161			3.98	166
TOTAL HYDRO RAJASTHAN(1 * 550)	550	119	76	0		2.67	111
Total HYDEL	550	119	76			2.67	111
WIND	4,292	144	62	0		3.31	138
BIOMASS(1 * 102)	102	31	31	0		0.75	31
SOLAR(1 * 1995)	1,995	271	0	0		14.62	609
Total RAJASTHAN	16,475	7,232	6,925			182.27	7,593

UTTAR PRADESH							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
ANPARA TPS(2 * 500 + 3 * 210)	1,630	1,247	1,153	0		30.29	1,262
ANPARA-C TPS(2 * 600)	1,200	1,092	1,082	0		23.85	994
ANPARA-D TPS(2 * 500)	1,000	949	943	0		21.58	899
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,007	1,081	0		24.37	1,015
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	315	313	0		7.45	310
LALITPUR TPS(3 * 660)	1,980	617	350	0		12.37	515
MEJA TPS(1 * 660)	660	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	0	0	0			
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	885	892	0		20.62	859
ROSA TPS(4 * 300)	1,200	778	805	0		18.77	782
TANDA TPS(4 * 110)	440	172	177	0		4.28	178
Total THERMAL	13,763	7,062	6,796			163.58	6,814
ALAKHANDA HEP(4 * 82.5)	330	151	155	0		3.31	138
VISHNUPARYAG HPS(4 * 110)	440	167	167	0		3.94	164
OTHER HYDRO UP(1 * 527)	527	256	316	0		5.76	240
Total HYDEL	1,297	574	638			13.01	542
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.6	108
CO-GENERATION(1 * 1360)	1,360	100	100	0		2.4	100
Total OTHERs	1,360	100	100			2.4	100
Total UP	16,918	7,736	7,534			181.59	7,564

UTTARAKHAND										
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW			
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)				
TOTAL GAS UK(1 * 450)	450	297	304	306	07:00	7.11	296			
Total GAS/NAPHTHA/DIESEL	450	297	304			7.11	296			
OTHER HYDRO UK(1 * 1250)	1,250	673	520	775	20:00	12.63	526			
Total HYDEL	1,250	673	520			12.63	526			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	100	12:00	0.68	28			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	970	824			20.42	850			

3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
BBMB										
BHAKRA HPS(2 * 108 + 3 * 126 + 5 * 157)	1,379	554.33	1,040	410	1,096	21:00	13.3	13.47	561	0.17
DEHAR HPS(6 * 165)	990	302.08	645	165	645	19:00	7.25	7.36	307	0.11
PONG HPS(6 * 66)	396	318.67	330	330	330	02:00	7.65	7.74	323	0.09
Sub-Total	2,765	1,175.08	2,015	905	-	-	28.2	28.57	1,191	0.37
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	0	0	0
CHAMERA HPS(3 * 180)	540	356.5	362	0	369	06:30	3.25	3.4	142	0.15
CHAMERA II HPS(3 * 100)	300	128.01	299	113	302	21:00	3.06	3.15	131	0.09
CHAMERA III HPS(3 * 77)	231	87.19	239	75	239	19:00	2.07	2.15	90	0.08
DHAULIGANGA HPS(4 * 70)	280	97.37	138	140	143	23:00	2.32	2.34	98	0.02
DULHASTI HPS(3 * 130)	390	386.9	395	0	399	17:00	5.6	5.8	242	0.2
KISHANGANGA(2 * 110)	220	79.79	196	63	196	19:00	1.92	1.95	81	0.03
PARBATI III HEP(4 * 130)	520	41.41	389	0	393	18:30	0.99	1.04	43	0.05
SALAL HPS(6 * 115)	690	166.46	485	147	485	19:00	4	4.75	198	0.75
SEWA-II HPS(3 * 40)	120	119.54	117	0	120	21:00	0.55	0.55	23	0
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	58.85	65	94	95	10:00	1.41	1.52	63	0.11
URI HPS(4 * 120)	480	157.4	250	158	360	21:00	3.78	4.45	185	0.67
URI-II HPS(4 * 60)	480	99.04	181	122	182	20:00	2.38	2.52	105	0.14
Sub-Total	4,525	1,778.46	3,116	912	-	-	31.33	33.62	1,401	2.29
NPCL										
NAPS(2 * 220)	440	397	434	432	443	08:00	9.53	9.49	395	-0.04
RAPS-B(2 * 220)	440	192	217	218	217	19:00	4.61	4.64	193	0.03
RAPS-C(2 * 220)	440	420	463	463	468	15:00	10.08	10.08	420	0
Sub-Total	1,320	1,009	1,114	1,113	-	-	24.22	24.21	1,008	-0.01
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	91.83	323	151	323	19:00	5.3	5.34	223	0.04
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	198.32	513	187	536	18:00	6.94	6.81	284	-0.13
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	245.26	487	289	766	-	8.97	8.99	375	0.02
DADRI SOLAR(1 * 5)	5	0.87	0	0	3	11:36	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	609	577	609	19:00	12.04	11.84	493	-0.2
DADRI-II TPS(2 * 490)	980	928.55	932	978	932	19:00	20.02	20.81	867	0.79
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	831	987	1,010	17:46	21.82	21.44	893	-0.38
KOLDAM HPS(4 * 200)	800	872	542	0	805	21:00	4.75	4.84	202	0.09
RIHAND-I STPS(2 * 500)	1,000	922.5	1,001	997	1,001	19:00	22.04	22.1	921	0.06
RIHAND-II STPS(2 * 500)	1,000	942.5	1,008	986	1,008	19:00	22.55	22.63	943	0.08
RIHAND-III STPS(2 * 500)	1,000	471.25	503	505	503	19:00	11.24	11.47	478	0.23
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,964	1,973	1,989	09:00	43.44	43.65	1,819	0.21
SINGRAULI SOLAR(1 * 15)	15	2.48	0	0	0	-	0.06	0.07	3	0.01
UNCHAHAH II TPS(2 * 210)	420	382.2	381	410	381	19:00	8.69	8.79	366	0.1
UNCHAHAH III TPS(1 * 210)	210	191.1	200	203	200	19:00	4.29	4.36	182	0.07
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	2.1	0	0	0	-	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	395	414	395	19:00	8.93	8.92	372	-0.01
Sub-Total	12,612	8,967.11	9,689	8,657	-	-	201.15	202.13	8,424	0.98
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,495	0	1,497	20:00	12.7	12.94	539	0.24
RAMPUR HEP(6 * 68.67)	412	442	416	0	428	20:00	3.53	3.72	155	0.19
Sub-Total	1,912	1,939.38	1,911	0	-	-	16.23	16.66	694	0.43
THDC										
KOTESHWAR HPS(4 * 100)	400	73.75	100	70	100	19:00	1.77	1.8	75	0.03
TEHRI HPS(4 * 250)	1,000	1,064	1,004	0	1,004	19:00	5.62	5.81	242	0.19
Sub-Total	1,400	1,137.75	1,104	70	-	-	7.39	7.61	317	0.22
Total	24,534	16,006.78	18,949	11,657			308.52	312.8	13,035	4.28

IPP/JV

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
IPP										
ADHPL(IPP) HPS(2 * 96)	192	0	130	0	143	18:00	1.15	1.13	47	-0.02
BUDHIL HPS (IPP)(2 * 35)	70	0	70	0	70	19:00	0.51	0.53	22	0.02
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	18:30	6.76	6.82	284	0.06
MALANA2(2 * 50)	100	0	30	15	105	20:00	0.53	0.55	23	0.02
SAINJ HEP(2 * 50)	50	0	100	25	100	04:15	0.92	0.9	38	-0.02
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	298	298	299	06:00	7.15	7.08	295	-0.07
Sub-Total	1,712	0	1,628	338	-	-	17.02	17.01	709	-0.01
Total	1,712	0	1,628	338	-	-	17.02	17.01	709	-0.01

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	22,975	21,830	556.53	23,189
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		1,420	2,857	84.56	3,538
Total Regional Availability(Gross)	80,872	44,972	36,682	970.9	40,469

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	10,018	1,927	101.23	4,218
State Control Area Hydro	6,125	2,808	2,481	58.64	2,443
Total Regional Hydro	18,939	12,826	4,408	159.87	6,661

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.14	6
State Control Area Renewable	9,214	681	311	39.48	1,645
Total Regional Renewable	9,244	681	311	39.62	1,651

4(A) INTER-REGIONAL EXCHANGES (Import=(+ve) /Export =(-ve))

SL.No.	Element	19:00	03:00	Maximum Interchange (MW)		Import in MU	Export in MU	NET
		(MW)	MW	Import (MW)	Export (MW)			
Import/Export between EAST REGION and NORTH REGION								
1	132KV-Garhwa-Rihand	-	-	-	-	-	-	-
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0.96	0	0.96
3	132KV-Rihand-Sonnagar(PG)	-29	-30	-	33	0	0.62	-0.62
4	220KV-Pusauli(PG)-Sahupuri(UP)	151	137	151	0	3.11	0	3.11
5	400KV-Biharsharif(PG)-Baliala(PG)	-119	-49	97	133	0	0.7	-0.7
6	400KV-Biharsharif(PG)-Varanasi(P..	-357	-232	0	371	0	4.25	-4.25
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	154	268	304	0	5.72	0	5.72
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-194	-28	286	250	0.66	0	0.66
10	400KV-Patna(PG)-Baliala(PG)	220	363	603	0	9.51	0	9.51
11	400KV-Sasaram-Allahabad(PG)	84	104	142	0	2.67	0	2.67
12	400KV-Sasaram-Varanasi(PG)	300	283	312	0	6.84	0	6.84
13	765KV-Fatehpur(PG)-Sasaram.	-420	-312	0	443	0	6.09	-6.09
14	765KV-Gaya(PG)-Baliala(PG)	-21	2	120	34	1.11	0	1.11
15	765KV-Gaya(PG)-Varanasi(PG)	-425	-241	132	478	0	2.6	-2.6
16	HVDC800KV-Alipurduar-Agra(PG)	375	375	375	0	8.38	0	8.38
Sub-Total EAST REGION		-281	640	2,522	1,742	38.96	14.26	24.7
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	500	700	0	14.04	0	14.04
Sub-Total NORTH_EAST REGION		700	500	700	0	14.04	0	14.04
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-192	-133	-	192	0	3.56	-3.56
2	220KV-Badod(MP)-Kota(PG)	40	-199	40	203	0	1.95	-1.95
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-460	-396	-	523	0	8.97	-8.97
5	400KV-Vindhyachal(PG)-Rihand(N ..	-469	-477	-	485	0	11.47	-11.47
6	400KV-Zerda(PG)-Bhinmal(PG)	-201	-206	37	356	0	4.75	-4.75
7	400KV-Zerda(PG)-Kankroli(RJ)	-306	-286	0	419	0	6.88	-6.88
8	765KV-0rai-Gwalior(PG)	-201	-292	0	416	0	7.82	-7.82
9	765KV-0rai-Jabalpur	-327	-33	428	513	0	0.34	-0.34
10	765KV-0rai-Satna	1,358	1,419	1,606	0	35.33	0	35.33
11	765KV-Gwalior(PG)-Agra(PG)	663	996	1,232	0	23.29	0	23.29
12	765KV-Phagi(RJ)-Gwalior(PG)	297	527	1,019	-	14.17	0	14.17
13	HVDC500KV-Mundra(JH)-Mohind..	599	597	603	0	14.59	0	14.59
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	450	450	450	0	10.22	0	10.22
Sub-Total WEST REGION		1,001	1,717	5,415	3,357	97.6	51.78	45.82
TOTAL IR EXCHANGE		1,420	2,857	8,637	5,099	150.6	66.04	84.56

4(B) Inter Regional Schedule & Actual Exchange (Import=(+ve) /Export =(-ve)) in MU

	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total IR Schedule	Total IR Actual	NET IR UI
NR-ER	42.66	-3.61	-30.04	9.01	24.7	15.69

NR-WR	150.42	-4.05	-41.35	105.02	45.82	-59.2
Total	193.08	-7.66	-71.39	114.03	84.56	-29.47

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

Element	Peak	Off-Peak	Maximum Interchange(MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	(MU)
132KV-Tanakpur(NH)-Mahendranagar(PG)	-20.28	-0.05	0	25	0	0.2758	-0.2758

5. Frequency Profile

RANGE(Hz)	< 49.2	< 49.7	< 49.8	< 49.9	< 50.0	>= 49.9 - <= 50.05	> 50.05 - <= 50.1	> 50.1 - <= 50.2	> 50.2	> 50.05
%	0	0	1.3	23.2	74.9	71.1	5.4	.3	0	5.6

<-----Frequency (Hz)----->

Maximum		Minimum		Average Frequency	Freq Variation Index	Standard Deviation	Freq. in 15 mnt blk		Freq Dev Index (% of Time)
Frequency	Time	Frequency	Time				Max.	Min.	
50.12	12:02:40	49.73	17:24:10	49.95	0.068	0.066	50.06	49.79	28.9

6. Voltage Profile: 400kV

STATION	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
	VOLTAGE	TIME	VOLTAGE	TIME	< 380	< 390	> 420	> 430	
Abdullapur(PG) - 400KV	425	03:00	411	10:35	0	0	43.06	0	43.06
Abdullapur(PG) - 400KV	425	03:00	411	10:35	0	0	43.06	0	43.06
Amritsar(PG) - 400KV	423	03:50	409	10:15	0	0	21.88	0	21.88
Ballabgarh(PG) - 400KV	422	04:00	405	10:15	0	0	6.94	0	6.94
Bareilly II(PG) - 400KV	413	03:55	402	09:15	0	0	0	0	0
Bareilly(UP) - 400KV	414	04:00	403	09:15	0	0	0	0	0
Baspa(HP) - 400KV	426	03:05	410	07:20	0	0	34.03	0	34.03
Bassi(PG) - 400KV	417	04:00	397	07:15	0	0	0	0	0
Bawana(DTL) - 400KV	422	04:00	408	10:15	0	0	14.93	0	14.93
Dadri HVDC(PG) - 400KV	420	04:00	420	04:00	16.32	16.32	.69	0	17.01
Gorakhpur(PG) - 400KV	414	16:00	397	18:10	0	0	0	0	0
Hisar(PG) - 400KV	419	21:25	404	10:20	0	0	0	0	0
Kanpur(PG) - 400KV	419	04:00	410	07:15	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	421	03:55	408	06:55	0	0	47.57	0	47.57
Moga(PG) - 400KV	417	13:25	402	10:15	0	0	0	0	0
Nallagarh(PG) - 400KV	426	03:05	410	07:20	0	0	34.03	0	34.03
Rihand HVDC(PG) - 400KV	407	17:00	407	17:00	16.67	16.67	0	0	16.67
Rihand(NT) - 400KV	405	17:00	402	07:20	0	0	0	0	0

6.1 Voltage Profile: 765kV

STATION	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
	VOLTAGE	TIME	VOLTAGE	TIME	< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	789	22:00	768	07:20	0	0	0	0	0
Balia(PG) - 765KV	781	16:00	760	18:20	0	0	0	0	0
Bareilly II(PG) - 765KV	788	04:00	769	09:15	0	0	0	0	0
Bhiwani(PG) - 765KV	799	13:05	775	07:20	0	0	0	0	0
Fatehpur(PG) - 765KV	782	13:05	752	23:20	0	0	0	0	0
Jhatikara(PG) - 765KV	797	21:20	770	10:15	0	0	0	0	0
Lucknow II(PG) - 765KV	785	16:00	766	18:10	0	0	0	0	0
Meerut(PG) - 765KV	804	13:25	768	09:20	0	0	4.86	0	4.86
Moga(PG) - 765KV	798	13:25	758	10:15	0	0	0	0	0
Phagi(RJ) - 765KV	797	20:30	771	06:45	0	0	0	0	0
Unnao(UP) - 765KV	771	00:00	771	00:00	0	0	0	0	0

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

State	Off- Peak Hours (03:00)			Peak Hours (19:00)			Day Energy (MU)			
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total (MU)
PUNJAB	-741.32	-1,059.75	0	-539.46	-1,261.61	0	63.35	-14.41	-16.11	32.82
HARYANA	251.06	0	0	251.64	-779.12	0	92.79	5.35	-2.56	95.58
RAJASTHAN	-16.36	-1,969.33	0	-16.36	-1,641.93	0	66.49	-0.43	-32.82	33.24
DELHI	-290.15	-1,143.66	0	-310.06	-524.51	0	77.58	-8.7	-12.48	56.4
UTTAR PRADESH	557.64	0	0	169.73	35.31	0	113.24	5.03	-2.91	115.35
UTTARAKHAND	1.03	-15.72	0	-183.11	-82.91	0	11.97	0.2	1.24	13.41
HIMACHAL PRADESH	59.04	-23.14	0	59.11	-768.25	0	16.36	3.05	-5.75	13.66
JAMMU & KASHMIR	141.41	158.13	0	141.41	197.66	0	24.44	3.4	6.88	34.72
CHANDIGARH	0	-25.17	0	0	-95.64	0	3.93	0	-0.64	3.29
TOTAL	-37.65	-4,078.64	0	-427.1	-4,921	0	470.15	-6.51	-65.15	398.47

7(B). Short-Term Open Access Details

State	ISGS/(LT+MT) Schedule		Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
PUNJAB	3,601.23	2,281.93	-539.46	-791.78	-151.39	-1,362.54	0	0
HARYANA	4,932.71	3,057.68	328.72	-10.71	0.49	-1,011.84	0	0
RAJASTHAN	3,537.43	2,222.21	-16.36	-20.45	-66.54	-2,668.4	0	0
DELHI	3,675.59	2,817.22	-278.27	-475.64	-7.51	-1,162.79	0	0
UTTAR PRADESH	6,079.71	4,029.78	561.96	68.94	35.31	-532.49	0	0
UTTARAKHAND	816.73	233.94	91.04	-212.51	204.33	-82.91	0	0
HIMACHAL PRADESH	1,436.54	302.33	246.76	28.52	-9.28	-849.41	0	0
JAMMU & KASHMIR	1,810.53	744.22	141.41	141.41	592.98	0	0	0
CHANDIGARH	280.06	119.74	0	0	0	-95.64	0	0

8. Major Reservoir Particulars

RESERVOIR	Parameters		Present Parameters		LAST YEAR		LAST DAY	
	MDDL (Mts)	FRL (Mts)	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	508.71	1,485	507.36	1,426	330.74	341.76
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	-	-	-	-	-	0
Pong	384.05	426.72	422.74	1,021	418.04	795	120.06	431.75
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	525.93	7	515.08	3	144.27	146.29
Rihand	252.98	268.22	263.1	486	262.74	463	-	14,717.36
Tehri	740.04	829.79	827.3	1,157	824.1	1,089	85.04	125
TOTAL	-	-	-	4,156	-	3,776	680.11	15,762.16

9. System Reliability Indices (Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	0
ER	0
Simultaneous	0

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

WR	0
ER	0
Simultaneous	0

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

Rihand-Dadri	0
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10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
CHANDIGARH	4	45
DELHI	4	26
HARYANA	0	10
HIMACHAL PRADESH	4	41
JAMMU & KASHMIR	2	18
PUNJAB	0	8
RAJASTHAN	1	20
UTTAR PRADESH	1	15
UTTARAKHAND	4	26

11. Significant events (If any):

12. Grid Disturbance / Any Other Significant Event:

13. Weather Conditions :

14. Synchronisation of new generating units :

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

1. 220/33kV ICT-1 at Kishanganga first time charged at 20:02 Hrs (23.10.2018)

16. Tripping of lines in pooling stations :

17. 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.

Shift In Charge