



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

Power Supply Position in Northern Region For 26-Aug-2018

Date of Reporting:27-Aug-2018

1. Regional Availability/Demand:

Evening Peak (20:00) 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
48,860	1,154	50,014	50.06	48,726	249	48,975	50.03	1,120	10.66

2(A)State's Load Deals (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	77.46	13.86	0	5.8	0	0	97.12	136.58	136.66	0.08	233.78	0	233.78
HARYANA	33.95	0.59	0	0.15	0	0	34.69	134.1	134.99	0.89	169.68	0	169.68
RAJASTHAN	109.82	0.15	2.28	11.28	29.01	0.45	152.99	53.67	54.73	1.06	207.72	0	207.72
DELHI	6.52	0	15.73	0	0	0	22.25	76.4	75.75	-0.65	98	0	98
UTTAR PRADESH	134	19.5	0	0.2	0	1.2	154.9	160.17	160.31	0.14	315.21	0	315.21
UTTARAKHAND	0	18.65	0	0.35	0	0	19.01	14.24	13.06	-1.18	32.07	0	32.07
HIMACHAL PRADESH	0	18.49	0	0	0	0	18.49	-3.56	-1.03	2.53	17.46	0	17.46
JAMMU & KASHMIR	0	24.63	0	0	0	0	24.63	18.4	16.78	-1.62	52.07	10.66	41.41
CHANDIGARH	0	0	0	0	0	0	0	5.34	4.83	-0.51	4.83	0	4.83
Region	361.75	95.87	18.01	17.78	29.01	1.65	524.08	595.34	596.08	0.74	1,130.82	10.66	1,120.16

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

State	Evening Peak (20:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surpl ..	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Surpl ..	UI	STOA/PX Transaction
PUNJAB	9,629	0	108	1,448	9,581	0	52	2,050
HARYANA	7,507	0	-223	2,206	7,711	0	88	2,386
RAJASTHAN	7,816	0	241	-361	8,871	0	346	-66
DELHI	4,028	0	-203	-211	4,468	0	146	332
UTTAR PRADESH	14,734	580	138	1,221	14,032	0	-352	1,920
UTTARAKHAND	1,496	0	3	156	1,401	0	115	-118
HIMACHAL PRADESH	1,115	0	138	-1,795	1,052	0	164	-1,811
JAMMU & KASHMIR	2,295	574	264	-534	1,409	249	-122	-1,179
CHANDIGARH	239	0	-26	-40	201	0	2	-60
Region	48,859	1,154	440	2,090	48,726	249	439	3,454

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	Demand Met at maximum requiremnet	Time	Shortage(-)/Surplus(+) during at maximum Requirement	Maximum Requirement of the day
PUNJAB	10,169	21:00	0	10,169	10,169	21:00	0	10,169
HARYANA	8,140	1:00	0	8,140	8,140	1:00	0	8,140
RAJASTHAN	9,687	8:00	0	9,687	9,687	8:00	0	9,687
DELHI	5,122	24:00	0	5,122	5,122	24:00	0	5,122
UP	15,989	24:00	0	15,989	15,989	24:00	0	15,989
UTTARAKHAND	1,496	20:00	0	1,496	1,496	20:00	0	1,496
HP	1,297	8:00	0	1,297	1,297	8:00	0	1,297
J&K	2,295	20:00	574	2,869	2,295	20:00	574	2,869
CHANDIGARH	249	22:00	0	249	249	22:00	0	249
NR	52,026	1:00	271	52,297	52,026	1:00	271	52,297

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	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BADARPUR TPS(2 * 210 + 3 * 100)	705	301	301	0		6.52	272
RAJGHAT TPS(2 * 67.5)	135	0	0	0		0	0
Total THERMAL	840	301	301			6.52	272
BAWANA GPS(2 * 253 + 4 * 216)	1,370	427	429	0		10.32	430
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	75	75	0		1.85	77
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	136	146	0		3.56	148
RITHALA GPS(3 * 36)	108	0	0	0		0	0
Total GAS/NAPHTHA/DIESEL	2,091	638	650			15.73	655
WIND	0	0	0	0		0	0
BIOMASS(1 * 16)	16	0	0	0			
SOLAR(1 * 2)	2	0	0	0		0	0
Total DELHI	2,949	939	951			22.25	927

HARYANA							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	487	476	487	20:00	11.22	468
JHAJJAR(CLP)(2 * 660)	1,320	751	741	773	23:00	17.85	744
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0		0	0
PANIPAT TPS(2 * 210 + 2 * 250)	920	200	199	201	18:00	4.88	203
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0		0	0
Total THERMAL	4,065	1,438	1,416			33.95	1,415
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0		0	0
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	27	7	27	20:00	0.59	25
Total HYDEL	62	27	7			0.59	25
WIND	0	0	0	0		0	0
BIOMASS(1 * 106)	106	0	0	0			
SOLAR(1 * 50)	50	0	0	0		0.15	6
Total HARYANA	4,715	1,465	1,423			34.69	1,446

HIMACHAL PRADESH							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	330	330	330		7.93	330
MALANA (IPP) HPS(2 * 43)	86	83	86	86		1.98	83
OTHER HYDRO HP(1 * 372)	372	374	369	0		8.58	358
Total HYDEL	758	787	785			18.49	771
WIND	0	0	0	0		0	0
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0		0	0
SMALL HYDRO(1 * 486)	486	0	0	0			
Total SMALL HYDRO	486	0	0			0	0
Total HP	1,244	787	785			18.49	771

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	20:00	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		0	0
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	882	882	0		21.16	882
OTHER HYDRO/IPP J&K(1 * 308)	308	174	155	0		3.46	144
Total HYDEL	1,208	1,056	1,037			24.62	1,026
WIND	0	0	0	0		0	0
BIOMASS	0	0	0	0			
SOLAR	0	0	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	1,056	1,037			24.62	1,026

PUNJAB							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GOINDWAL(GVK)(2 * 270)	540	163	173	246		4.09	170
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	293	293	366		7.15	298
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	528	535	662		13.32	555
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		31.02	1,293
TALWANDI SABO TPS(3 * 660)	1,980	966	1,153	1,220		21.89	912
Total THERMAL	6,560	3,270	3,474			77.45	3,227
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	568	484	573		13.86	578
Total HYDEL	1,000	568	484			13.86	578
WIND	0	0	0	0		0	0
BIOMASS(1 * 303)	303	0	0	0			
SOLAR(1 * 859)	859	0	0	542		5.8	242
Total PUNJAB	8,722	3,838	3,958			97.11	4,047

RAJASTHAN							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BARSINGSAR (IPP) LTPS(2 * 125)	250	225	226	0		5.23	218
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,067	1,050	0		25.59	1,066
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0		0	0
KALISINDH TPS(2 * 600)	1,200	407	398	0		10.07	420
KAWAI TPS(2 * 660)	1,320	865	844	0		20.33	847
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	661	656	0		15.56	648
RAJWEST (IPP) LTPS(8 * 135)	1,080	498	487	0		14.32	597
SURATGARH TPS (6 * 250)	1,500	723	705	0		16.73	697
VSLPP (IPP)(1 * 135)	135	102	72	0		1.99	83
Total THERMAL	8,635	4,548	4,438			109.82	4,576
DHOLPUR GPS(3 * 110)	330	0	0	0		0	0
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	113	84	0		2.28	95
Total GAS/NAPHTHA/DIESEL	601	113	84			2.28	95
RAPS-A(1 * 100 + 1 * 200)	300	0	0	0		0	0
Total NUCLEAR	300	0	0			0	0
TOTAL HYDRO RAJASTHAN(1 * 550)	550	45	0	0		0.15	6
Total HYDEL	550	45	0			0.15	6
WIND	4,292	745	1,611	0		29.01	1,209
BIOMASS(1 * 102)	102	19	19	0		0.45	19
SOLAR(1 * 1995)	1,995	37	0	0		11.28	470
Total RAJASTHAN	16,475	5,507	6,152			152.99	6,375

UTTAR PRADESH							
Station/Constituents	Inst. Capacity	20:00	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	1,320	1,156	0		26.8	1,117
ANPARA-C TPS(2 * 600)	1,200	882	611	0		17.8	742
ANPARA-D TPS(2 * 500)	1,000	913	949	0		18	750
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0		0	0
BARA PPGCL TPS(3 * 660)	1,980	356	349	0		8.7	363
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	255	255	0		6.5	271
LALITPUR TPS(3 * 660)	1,980	697	690	0		16.4	683
OBRA TPS (2 * 94 + 5 * 200)	1,188	525	297	0		8.9	371
PANKI TPS(2 * 105)	210	0	0	0		0	0
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	494	480	0		11.3	471
ROSA TPS(4 * 300)	1,200	601	596	0		14.4	600
TANDA TPS(4 * 110)	440	185	215	0		5.2	217
Total THERMAL	13,103	6,228	5,598			134	5,585
ALAKHANDA HEP(4 * 82.5)	330	345	330	0		7.7	321
VISHNUPARYAG HPS(4 * 110)	440	435	435	0		10.5	438
OTHER HYDRO UP(1 * 527)	527	65	18	0		1.3	54
Total HYDEL	1,297	845	783			19.5	813
WIND	0	0	0	0		0	0
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		0.2	8
CO-GENERATION(1 * 1360)	1,360	50	50	0		1.2	50
Total OTHERs	1,360	50	50			1.2	50
Total UP	16,258	7,123	6,431			154.9	6,456

UTTARAKHAND										
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW			
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)				
TOTAL GAS UK(1 * 450)	450	0	0	0		0	0			
Total GAS/NAPTHA/DIESEL	450	0	0			0	0			
OTHER HYDRO UK(1 * 1250)	1,250	715	751	857	12:00	18.65	777			
Total HYDEL	1,250	715	751			18.65	777			
WIND	0	0	0	0		0	0			
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	49	12:00	0.35	15			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	715	751			19	792			

3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	20:00	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	656.05	1,020	542	1,020	20:00	15.75	15.84	660	0.09
DEHAR HPS(6 * 165)	990	591.96	975	495	975	20:00	14.21	14.18	591	-0.03
PONG HPS(6 * 66)	396	125.94	264	66	264	20:00	3.02	3.05	127	0.03
Sub-Total	2,765	1,373.95	2,259	1,103	-	-	32.98	33.07	1,378	0.09
NHPC										
BAIRASIUL HPS(3 * 60)	180	127.93	174	143	177	19:00	3.02	3.08	128	0.06
CHAMERA HPS(3 * 180)	540	534.33	539	536	540	22:00	12.8	12.92	538	0.12
CHAMERA II HPS(3 * 100)	300	296.85	306	300	308	19:00	7.12	7.17	299	0.05
CHAMERA III HPS(3 * 77)	231	224.31	229	231	231	01:00	4.96	4.93	205	-0.03
DHAULIGANGA HPS(4 * 70)	280	221.01	285	0	289	19:00	5.26	5.25	219	-0.01
DULHASTI HPS(3 * 130)	390	380	394	391	396	21:00	9.12	9.22	384	0.1
KISHANGANGA(2 * 110)	220	0	0	0	0	-	0	0	0	0
PARBATI III HEP(4 * 130)	520	195.08	500	207	506	07:00	4.68	4.65	194	-0.03
SALAL HPS(6 * 115)	690	688.25	706	710	711	-	16.52	16.95	706	0.43
SEWA-II HPS(3 * 40)	120	119.54	119	119	121	01:00	1.78	1.78	74	0
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	29.38	98	0	99	19:00	0.7	0.76	32	0.06
URI HPS(4 * 120)	480	329.06	445	371	457	23:59	7.9	8.41	350	0.51
URI-II HPS(4 * 60)	480	189.12	187	175	243	07:00	4.54	4.64	193	0.1
Sub-Total	4,525	3,334.86	3,982	3,183	-	-	78.4	79.76	3,322	1.36
NPCL										
NAPS(2 * 220)	440	354.06	398	402	398	20:00	8.5	8.59	358	0.09
RAPS-B(2 * 220)	440	355	400	399	400	20:00	8.52	8.58	358	0.06
RAPS-C(2 * 220)	440	405	452	452	453	06:00	9.72	9.78	408	0.06
Sub-Total	1,320	1,114.06	1,250	1,253	-	-	26.74	26.95	1,124	0.21
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	404.86	0	0	0	-	0	0	0	0
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	634.09	0	0	0	-	0	0	0	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	597.34	113	114	113	20:00	2.66	2.72	113	0.06
DADRI SOLAR(1 * 5)	5	0.85	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	805.4	347	390	347	20:00	7.94	7.75	323	-0.19
DADRI-II TPS(2 * 490)	980	928.55	648	577	648	20:00	12.59	13.51	563	0.92
ISTPP (JHAJJAR)(3 * 500)	1,500	1,396.82	873	889	1,077	22:50	18.21	19.7	821	1.49
KOLDAM HPS(4 * 200)	800	872	870	862	872	-	20.93	20.89	870	-0.04
RIHAND-I STPS(2 * 500)	1,000	715.52	1,008	808	1,008	20:00	14.62	15.83	660	1.21
RIHAND-II STPS(2 * 500)	1,000	942.5	995	984	995	20:00	18.42	19.98	833	1.56
RIHAND-III STPS(2 * 500)	1,000	942.5	977	992	977	20:00	17.81	19.84	827	2.03
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,760	1,903	1,895	1,903	20:00	32.01	35.38	1,474	3.37
SINGRAULI SOLAR(1 * 15)	15	1.17	0	0	0	-	0.03	0.03	1	0
UNCHAHAH II TPS(2 * 210)	420	382.2	211	225	211	20:00	5.1	5.26	219	0.16
UNCHAHAH III TPS(1 * 210)	210	191.1	118	122	118	20:00	2.57	2.89	120	0.32
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	0	0	0
UNCHAHAH SOLAR(1 * 10)	10	1.31	0	0	0	-	0.03	0.03	1	0
UNCHAHAH TPS(2 * 210)	420	191.1	118	123	118	20:00	2.55	2.92	122	0.37
Sub-Total	12,612	10,767.31	8,181	7,981	-	-	155.49	166.75	6,948	11.26
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,605	1,587	1,635	1,636	04:00	38.52	38.77	1,615	0.25
RAMPUR HEP(6 * 68.67)	412	442	448	448	450	05:00	10.61	10.87	453	0.26
Sub-Total	1,912	2,047	2,035	2,083	-	-	49.13	49.64	2,068	0.51
THDC										
KOTESHWAR HPS(4 * 100)	400	198.33	405	206	407	19:00	4.76	4.78	199	0.02
TEHRI HPS(4 * 250)	1,000	1,064	1,059	452	1,062	22:00	14.54	14.8	617	0.26
Sub-Total	1,400	1,262.33	1,464	658	-	-	19.3	19.58	816	0.28
Total	24,534	19,899.51	19,171	16,261			362.04	375.75	15,656	13.71

IPP/JV

Station/Constituents	Inst. Capacity	Declared Capacity	20:00	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	184	179	200	21:00	3.92	3.94	164	0.02
BUDHIL HPS (IPP)(2 * 35)	70	0	74	75	76	01:00	1.58	1.7	71	0.12
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,100	1,100	1,100	19:00	26.08	26.11	1,088	0.03
MALANA2(2 * 50)	100	0	110	110	110	01:00	2.26	2.37	99	0.11
SAINJ HEP(2 * 50)	50	0	110	110	110	00:00	2.59	2.61	109	0.02
SHREE CEMENT (IPP) TPCS 2 * 150)	300	0	259	142	293	20:00	4.37	4.17	174	-0.2
Sub-Total	1,712	0	1,837	1,716	-	-	40.8	40.9	1,705	0.1
Total	1,712	0	1,837	1,716	-	-	40.8	40.9	1,705	0.1

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	21,430	21,488	524.05	21,835
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		10,117	11,802	200.95	11,690
Total Regional Availability(Gross)	80,212	52,555	51,267	1,141.65	50,886

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	12,188	9,463	239.67	9,986
State Control Area Hydro	6,125	4,043	3,847	95.86	3,994
Total Regional Hydro	18,939	16,231	13,310	335.53	13,980

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.08	3
State Control Area Renewable	9,214	801	1,630	47.24	1,968
Total Regional Renewable	9,244	801	1,630	47.32	1,971

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

SL.No.	Element	20:00	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	-	-	-	-	0	0	0
2	132KV-Karmnasa(PG)-Sahupuri(UP)	-	-	-	-	0	0	0
3	132KV-Rihand-Sonnagar(PG)	-25	-20	-	30	0	0.53	-0.53
4	220KV-Pusauli(PG)-Sahupuri(UP)	113	72	122	0	2.54	0	2.54
5	400KV-Biharsharif(PG)-Baliala(PG)	24	46	134	0	1.76	0	1.76
6	400KV-Biharsharif(PG)-Varanasi(PG)	129	111	-164	190	0	0.66	-0.66
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur(UP)	-232	-206	0	282	0	4.91	-4.91
9	400KV-Muzaffarpur(PG)-Gorakhpur(UP)	261	318	537	0	8.87	0	8.87
10	400KV-Patna(PG)-Baliala(PG)	634	742	1,034	0	19.91	0	19.91
11	400KV-Sasaram-Allahabad(PG)	15	21	64	0	0.89	0	0.89
12	400KV-Sasaram-Varanasi(PG)	138	121	138	0	3.82	0	3.82
13	765KV-Fatehpur(PG)-Sasaram.	-195	-203	0	227	0	3.66	-3.66
14	765KV-Gaya(PG)-Baliala(PG)	232	198	243	0	4.03	0	4.03
15	765KV-Gaya(PG)-Varanasi(PG)	108	59	264	0	3.03	0	3.03
16	HVDC800KV-Alipurduar-Agra(PG)	300	400	400	0	7.46	0	7.46
Sub-Total EAST REGION		1,502	1,659	2,772	729	52.31	9.76	42.55
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli-Agra(PG)	500	700	700	0	14.25	0	14.25
Sub-Total NORTH_EAST REGION		500	700	700	0	14.25	0	14.25
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	49	39	27	-	0	0.78	-0.78
2	220KV-Badod(MP)-Kota(PG)	8	-39	20	74	0	1.64	-1.64
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-232	-188	320	-12	3.59	0	3.59
5	400KV-Vindhyachal(PG)-Rihand(NT)	931	944	0	476	0	18.7	-18.7
6	400KV-Zerda(PG)-Bhinmal(PG)	-	-	-	-	0	0	0
7	400KV-Zerda(PG)-Kankroli(RJ)	-38	50	88	155	0	0.09	-0.09
8	765KV-Orai-Gwalior(PG)	-337	-294	0	340	0	6.73	-6.73
9	765KV-Orai-Jabalpur	1,056	960	1,180	0	21.43	0	21.43
10	765KV-Orai-Satna	1,775	1,714	1,866	0	37.38	0	37.38
11	765KV-Gwalior(PG)-Agra(PG)	2,480	1,764	2,480	0	47.54	0	47.54
12	765KV-Phagi(RJ)-Gwalior(PG)	772	1,045	1,045	0	22.4	0	22.4
13	HVDC500KV-Mundra(JH)-Mohindergarh(JH)	801	1,198	1,204	0	22.07	0	22.07
14	HVDC500KV-Vindhyachal(PG)-Vindhyachal B/B	250	250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kurukshetra(PG)(PG)	600	2,000	2,000	0	23.72	0	23.72
Sub-Total WEST REGION		8,115	9,443	10,230	1,283	178.13	33.98	144.15
TOTAL IR EXCHANGE		10,117	11,802	13,702	2,012	244.69	43.74	200.95

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-WR	124.85	60.09	-3.44	181.5	144.15	-37.35
NR-ER	36.71	37.23	-34.87	39.07	56.8	17.73

Total	161.56	97.32	-38.31	220.57	200.95	-19.62
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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)	-20.95	0	0	21	0	0.1212	0

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	0	1.1	40.3	77	19.9	2.7	0	22

<-----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.	
50.18	18:02:10	49.83	22:08:40	50.01	0.03	0.049	50.1	49.93	23

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	414	07:00	398	00:10	0	0	0	0	0
Abdullapur(PG) - 400KV	414	07:00	398	00:10	0	0	0	0	0
Amritsar(PG) - 400KV	411	07:00	399	00:20	0	0	0	0	0
Ballabgarh(PG) - 400KV	414	06:00	395	23:10	0	0	0	0	0
Bareilly II(PG) - 400KV	417	11:20	398	23:10	0	0	0	0	0
Bareilly(UP) - 400KV	418	11:20	400	23:10	0	0	0	0	0
Baspa(HP) - 400KV	409	07:05	399	00:15	0	0	0	0	0
Bassi(PG) - 400KV	419	16:00	396	23:10	0	0	0	0	0
Bawana(DTL) - 400KV	415	07:00	399	23:10	0	0	0	0	0
Dadri HVDC(PG). - 400KV	413	06:00	397	23:10	0	0	0	0	0
Gorakhpur(PG) - 400KV	417	06:00	393	19:20	0	0	0	0	0
Hisar(PG) - 400KV	410	07:00	393	00:20	0	0	0	0	0
Kanpur(PG) - 400KV	423	06:00	404	22:55	0	0	15.97	0	15.97
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	416	05:45	404	20:05	0	0	0	0	0
Moga(PG) - 400KV	410	07:00	397	23:10	0	0	0	0	0
Nallagarh(PG) - 400KV	409	07:05	399	00:15	0	0	0	0	0
Rihand HVDC(PG) - 400KV	411	16:00	411	16:00	.35	.35	0	0	.35
Rihand(NT) - 400KV	410	17:05	399	23:05	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	796	16:05	771	23:05	0	0	0	0	0
Balia(PG) - 765KV	786	06:00	752	23:10	0	0	0	0	0
Bareilly II(PG) - 765KV	795	06:00	760	23:10	0	0	0	0	0
Bhiwani(PG) - 765KV	796	06:00	765	22:55	0	0	0	0	0
Fatehpur(PG) - 765KV	788	06:00	737	22:10	0	4.86	0	0	0
Jhatikara(PG) - 765KV	792	06:00	755	23:10	0	0	0	0	0
Lucknow II(PG) - 765KV	792	06:00	755	23:10	0	0	0	0	0
Meerut(PG) - 765KV	803	06:00	770	23:10	0	0	16.32	0	16.32
Moga(PG) - 765KV	793	06:00	765	23:10	0	0	0	0	0
Phagi(RJ) - 765KV	0	00:00	0	00:00	100	100	0	0	100
Unnao(UP) - 765KV	778	17:05	741	23:10	0	1.39	0	0	0

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

State	Off- Peak Hours (03:00)			Peak Hours (20:00)			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)
HIMACHAL PRADESH	-1,599.84	-210.9	0	-1,656.69	-138.36	0	36.6	-36.39	-3.77	-3.56
UTTARAKHAND	160.15	-278.33	0	132.29	24.04	0	14.71	4.24	-4.72	14.24
JAMMU & KASHMIR	-1,047.39	-131.46	0	-1,047.39	512.93	0	35.01	-25.14	8.52	18.4
CHANDIGARH	0	-60.37	0	0	-40.25	0	6.57	0	-1.23	5.34
PUNJAB	2,050.03	0	0	2,051.29	-603.68	0	89.29	49.21	-1.92	136.58
RAJASTHAN	-85.56	19.84	0	-130.15	-230.56	0	58.3	-2.48	-2.15	53.67
DELHI	951.43	-619.78	0	750.86	-961.87	0	73.21	19.6	-16.42	76.4
HARYANA	2,248.97	137.49	0	2,302.95	-96.94	0	88.2	46.45	-0.55	134.1
UTTAR PRADESH	2,390.17	-469.89	0	1,728.86	-508.18	0	121.51	47.7	-9.04	160.17
TOTAL	5,067.96	-1,613.4	0	4,132.02	-2,042.87	0	523.4	103.19	-31.28	595.34

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
HIMACHAL PRADESH	1,656.29	1,425.02	-1,416.9	-1,834.55	-24.29	-215.3	0	0
UTTARAKHAND	818.91	400.4	233.42	82	76.06	-278.33	0	0
JAMMU & KASHMIR	1,631.46	1,163.56	-1,047.39	-1,047.39	562.25	-131.46	0	0
CHANDIGARH	321.7	248	0	0	-30.18	-75.46	0	0
PUNJAB	4,248.71	3,499.01	2,051.29	2,049.68	0	-603.68	0	0
RAJASTHAN	3,289.4	1,260.19	-85.56	-138.32	89.31	-1,318.11	0	0
DELHI	3,849.99	2,666.32	1,037.76	375.92	-397.42	-1,170.14	0	0
HARYANA	4,527.41	3,156.6	2,461.93	1,417.77	139.36	-482.62	0	0
UTTAR PRADESH	6,407.14	3,960.92	2,392.98	1,705.37	0	-1,159.06	0	0

8. Major Reservoir Particulars

RESERVOIR	Parameters			Present Parameters		LAST YEAR		LAST DAY	
	MDDL (Mts)	FRL (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	653	498.45	1,030	508.36	1,470	1,157.79	450.35
Chamera-I	748.75	760	0	758.43	-	-	-	317.87	351.3
Gandhisagar	295.78	295.78	0	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	0	-	-	-	-	-	0
Koteshwar	598.5	612.5	5	611.39	5	610.52	5	332	315.36
Pong	384.05	426.72	138	417.27	768	420.8	931	1,080.2	179.98
RPS	343.81	352.8	0	-	-	-	-	-	0
RSD	487.91	527.91	1	520.04	5	520.96	10	469.7	236.4
Rihand	252.98	268.22	0	-	-	-	-	-	0
Tehri	740.04	829.79	787	818.3	968	814.6	894	631.93	332
TOTAL	-	-	1,584	-	2,776	-	3,310	3,989.49	1,865.39

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	8	64
DELHI	3	22
HARYANA	0	0
HIMACHAL PRADESH	3	29
JAMMU & KASHMIR	3	32
PUNJAB	0	0
RAJASTHAN	1	13
UTTAR PRADESH	0	0
UTTARAKHAND	4	30

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 :****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