

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

Power Supply Position in Northern Region For 01-Oct-2019

1. Regional Availability/Demand:

Date of Reporting:02-Oct-2019

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	Evening Peak (20:00) MW				Off-Pea	ak (03:00) MW	Day Energy(Net MU)		
Demand Met	Shortage(-)/Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage(-)/ Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage
46,345	1,215	47,560	50.02	36,836	175	37,011	50.02	963	7.65

2(A)State's	Lood	Dooile	(At State	Dorinhory)	in MII.
Z(A)State's	Load	Dealis	(ALSIAIE	Perinnerv	) in viti:

			State's Contro	ol Area Ger	eration (Ne	et MU)		Drawal Sch	Act Drawal	UI	Requirement	Shortage	Consumption
State	Thermal	Hydro	Gas/Naptha/ Diesel	Solar	Wind	OthersBiomass/Small Hyd/Co-gen etc.)	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(Net MU)
PUNJAB	39.78	14.44	0	3.08	0	2.06	59.36	72.78	72.12	-0.66	131.48	0	131.48
HARYANA	37.08	1.01	0.46	0.12	0	0.54	39.21	116.84	117.82	0.98	157.03	0	157.03
RAJASTHAN	95.35	2.58	1.96	13.23	12.71	4.46	130.28	72.78	69.67	-3.11	199.95	0	199.95
DELHI	0	0	15.71	0	0	1.05	16.76	76.7	76.01	-0.69	92.78	0.01	92.77
UTTAR PRADESH	115.38	19.9	0	3.1	0	0.7	139.08	146.84	145.08	-1.76	284.16	0	284.16
UTTARAKHAND	0	20.41	0	0.52	0	0	20.92	13.67	14.39	0.72	35.31	0	35.31
HIMACHAL PRADESH	0	12.71	0	0	0	9.04	21.75	5.61	4.77	-0.84	26.61	0.09	26.52
JAMMU & KASHMIR	0	15.96	0	0	0	0	15.96	18.73	15.77	-2.96	39.28	7.55	31.73
CHANDIGARH	0	0	0	0	0	0	0	4.48	3.86	-0.62	3.86	0	3.86
Region	287.59	87.01	18.13	20.05	12.71	17.85	443.32	528.43	519.49	-8.94	970.46	7.65	962.81

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

		Evening Po	eak (20:00) MW		Off-Peak (03:00) MW					
State	Demand Met	Shortage(-)/Surplus(+)	UI	STOA/PX Transaction	Demand Met	Shortage(-) /Surplus(+)	UI	STOA/PX Transaction		
PUNJAB	5,970	0	153	-227	4,767	0	-70	-24		
HARYANA	7,457	0	36	1,087	6,072	0	88	1,086		
RAJASTHAN	8,586	0	-263	1	7,752	0	-56	125		
DELHI	4,351	0	64	568	3,326	0	62	318		
UTTAR PRADESH	14,884	690	-284	1,480	11,537	0	-72	837		
UTTARAKHAND	1,600	0	-105	-113	1,335	0	39	-172		
HIMACHAL PRADESH	1,196	0	-10	-1,184	942	0	-117	-415		
JAMMU & KASHMIR	2,100	525	127	-73	992	175	-90	-370		
CHANDIGARH	201	0	-21	-91	114	0	-29	0		
Region	46,345	1,215	-303	1,448	36,837	175	-245	1,385		

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

2(C)State's Dema	ınd Met in MWs	(Maximum D	emand Met and Maxin	ium requirement of	the day details)					
	Maximum Dei		onding shortage and re for the day	quirement details	Maximum requirement, corresponding shortage and demand details for the day					
State	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 requiremnet	Min Demand Met	Time
PUNJAB	6,087	19:00	0	6,087	6,087	19:00	0	6,087	4,710	4:00
HARYANA	7,457	20:00	0	7,457	7,457	20:00	0	7,457	5,859	8:00
RAJASTHAN	8,998	10:00	0	8,998	8,998	10:00	0	8,998	7,498	5:00
DELHI	4,424	16:00	0	4,424	4,424	16:00	0	4,424	3,049	6:00
UP	14,929	19:00	280	15,209	15,209	19:00	280	14,929	10,054	16:00
UTTARAKHAND	1,760	19:00	0	1,760	1,760	19:00	0	1,760	1,335	3:00
HP	1,406	8:00	0	1,406	1,406	8:00	0	1,406	905	2:00
J&K	2,100	20:00	525	2,625	2,625	20:00	525	2,100	849	9:00
CHANDIGARH	209	19:00	0	209	209	19:00	0	209	113	4:00
NR	46,345	20:00	1,215	47,560	47,560	20:00	1,215	46,345	35,975	4:00

#### 3(A) State Entities Generation:

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

DELHI							
	Inst. Capacity	20:00	03:00	Day Peal	ζ	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
RAJGHAT TPS( 2 * 67.5 )	135	0	0	0			
Total THERMAL	135	0	0			0	0
BAWANA GPS( 2 * 253 + 4 * 216 )	1,370	505	410	0		11.23	468
<b>DELHI GAS TURBINES</b> ( 3 * 34 + 6 * 30 )	282	39	38	0		0.84	35
PRAGATI GAS TURBINES( 1 * 121.2 + 2 * 104.6 )	452	142	149	0		3.64	152
RITHALA GPS(3*36)	108	0	0	0			
Total GAS/NAPTHA/DIESEL	2,212	686	597			15.71	655
WIND	0	0	0	0			
BIOMASS( 16 )	16	40	32	0		1.05	44
SOLAR(2)	2	0	0	0			
Total DELHI	2,365	726	629			16.76	699

HARIYANA							
	Inst. Capacity	20:00	03:00	Day Pe	ak	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
DCRTPP (YAMUNA NAGAR)( 2 * 300 )	600	559	471	0		11.96	498
JHAJJAR(CLP)( 2 * 660 )	1,320	1,171	517	0		20.15	840
MAGNUM DIESEL (IPP)( 4 * 6.3 )	25	0	0	0			
PANIPAT TPS( 2 * 210 + 2 * 250 )	920	236	204	0		4.98	208
RGTPP( KHEDAR)( 2 * 600 )	1,200	0	0	0			
Total THERMAL	4,065	1,966	1,192			37.09	1,546
FARIDABAD GPS( 1 * 156.07 + 2 * 137.75 )	432	0	161	0		0.46	19
Total GAS/NAPTHA/DIESEL	432	0	161			0.46	19
TOTAL HYDRO HARYANA(64.8)	65	38	41	0		1.01	42
Total HYDEL	65	38	41			1.01	42
WIND	0	0	0	0			
BIOMASS( 106 )	106	0	0	0		0.54	23
SOLAR(55.8)	56	0	0	0		0.12	5
Total HARYANA	4,724	2,004	1,394			39.22	1,635

HIMACHAL PRADESH							
	Inst. Capacity	20:00	03:00	Day Peal	ζ.	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BASPA (IPP) HPS( 3 * 100 )	300	180	201	0		4.47	186
MALANA (IPP) HPS( 2 * 43 )	86	41	34	0		1.03	43
OTHER HYDRO HP( 372 )	372	343	284	0		7.21	300
Total HYDEL	758	564	519			12.71	529
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO( 486 )	486	419	344	0		9.04	377
Total SMALL HYDRO	486	419	344			9.04	377
Total HP	1,244	983	863			21.75	906

JAMMU & KASHMIR							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
GAS/DIESEL/OTHERS J&K(1*190)	190	0	0	0			
Total GAS/NAPTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS( 6 * 150 )	900	588	587	0		14.13	589
OTHER HYDRO/IPP J&K( 308 )	308	113	53	0		1.83	76
Total HYDEL	1,208	701	640			15.96	665
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO( 98 )	98	0	0	0			
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	701	640			15.96	665

PUNJAB							
	Inst. Capacity	20:00	03:00	Day Peal	ζ	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
GOINDWAL(GVK)( 2 * 270 )	540	0	0	0			
GURU GOBIND SINGH TPS (ROPAR)( 4 * 210 )	840	0	0	0		-0.09	-4
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)( 2 * 210 + 2 * 250 )	920	0	0	0		-0.13	-5
RAJPURA(NPL) TPS( 2 * 700 )	1,400	1,315	1,100	1,320		25.48	1,062
TALWANDI SABO TPS( 3 * 660 )	1,980	1,063	308	1,063		14.53	605
Total THERMAL	5,680	2,378	1,408			39.79	1,658
ANANADPUR SAHIB HYDRO PLANT( 2 * 33.5 + 2 * 33.5 )	134	0	0	0			
MUKERIAN HYDRO PLANT( 6 * 15 + 6 * 19.5 + 2 * 9 )	225	0	0	0			
RANJIT SAGAR POWER PLANT (4 * 150)	600	0	0	0			
SHANAN( 4 * 15 + 1 * 50 )	110	0	0	0			
UBDC( 3 * 15 + 3 * 15.5 )	92	0	0	0			
OTHER HYDRO PUNJAB	0	468	461	498		14.44	602
Total HYDEL	1,161	468	461			14.44	602
WIND	0	0	0	0			
BIOMASS( 303 )	303	0	0	0		2.06	86
SOLAR( 859 )	859	0	0	347		3.08	128
Total PUNJAB	8,003	2,846	1,869			59.37	2,474

	Inst. Capacity	20:00	03:00	Day Pe	eak	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BARSINGSAR (IPP) LTPS( 2 * 125 )	250	114	113	0		2.55	106
CHHABRA TPS( 2 * 660 + 4 * 250 )	2,320	1,305	1,534	0		33.42	1,393
GIRAL (IPP) LTPS( 2 * 125 )	250	0	0	0			
KALISINDH TPS( 2 * 600 )	1,200	458	427	0		10.99	458
KAWAI TPS( 2 * 660 )	1,320	559	485	0		11.93	497
KOTA TPS( 2 * 110 + 2 * 195 + 3 * 210 )	1,240	565	567	0		14	583
RAJWEST (IPP) LTPS( 8 * 135 )	1,080	689	968	0		16.57	690
SURATGARH TPS (6 * 250)	1,500	361	29	0		5.89	245
VSLPP (IPP)( 1 * 135 )	135	0	0	0			
Total THERMAL	9,295	4,051	4,123			95.35	3,972
DHOLPUR GPS(3*110)	330	0	0	0			
RAMGARH GPS( 1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5 )	271	82	82	0		1.96	82
Total GAS/NAPTHA/DIESEL	601	82	82			1.96	82
RAPS-A(1*100+1*200)	300	169	172	0		3.97	165
Total NUCLEAR	300	169	172			3.97	165
TOTAL HYDRO RAJASTHAN( 550 )	550	83	124	0		2.58	108
Total HYDEL	550	83	124			2.58	108
WIND	4,292	1,226	447	0		12.71	530
BIOMASS( 102 )	102	20	20	0		0.49	20
SOLAR( 3045 )	3,045	0	0	0		13.23	551
Total RAJASTHAN	18,185	5,631	4,968			130.29	5,428

UTTAR PRADESH							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
ANPARA TPS(2 * 500 + 3 * 210)	1,630	1,422	1,408	0		32.6	1,358
ANPARA-C TPS(2 * 600)	1,200	999	860	0		20	833
ANPARA-D TPS(2 * 500)	1,000	925	931	0		20.8	867
BAJAJ ENERGY PVT LTD (IPP) TPS( 10 * 45 )	450	0	0	0			
BARA PPGCL TPS( 3 * 660 )	1,980	1,042	694	0		19.7	821
HARDUAGANJ TPS( 1 * 105 + 1 * 60 + 2 * 250 )	665	0	0	0			
LALITPUR TPS( 3 * 660 )	1,980	1,120	337	0		13.5	563
MEJA TPS( 1 * 660 )	660	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	163	138	0		3.4	142
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,380	0	0	0			
ROSA TPS(4 * 300)	1,200	0	0	0			
TANDA TPS( 4 * 110 )	440	0	0	0			
TANDA TPS STAGE-II( 1 * 660 )	660	418	0	0		5.38	224
Total THERMAL	14,433	6,089	4,368			115.38	4,808
ALAKHANANDA HEP( 4 * 82.5 )	330	346	347	0		8.3	346
VISHNUPARYAG HPS(4*110)	440	391	386	0		9.2	383
OTHER HYDRO UP( 527 )	527	153	78	0		2.4	100
Total HYDEL	1,297	890	811			19.9	829
WIND	0	0	0	0			
BIOMASS( 26 )	26	0	0	0			
SOLAR( 798 )	798	0	0	0		3.1	129
CO-GENERATION( 1360 )	1,360	30	30	0		0.7	29
Total OTHERs	1,360	30	30			0.7	29
Total UP	17,914	7,009	5,209			139.08	5,795

UTTARAKHAND							
	Inst. Capacity	20:00	03:00	Day Pea	ak	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
TOTAL GAS UK( 675 )	675	0	0	0			
Total GAS/NAPTHA/DIESEL	675	0	0			0	0
OTHER HYDRO UK( 1250 )	1,250	865	866	872	18:00	20.41	850
Total HYDEL	1,250	865	866			20.41	850
WIND	0	0	0	0			
BIOMASS( 127 )	127	0	0	0			
SOLAR( 100 )	100	0	0	78	11:00	0.52	22
SMALL HYDRO( 180 )	180	0	0	0			
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,332	865	866			20.93	872

1,413.75 1,413.75 1,204 465 248 1,917  120 534 100 235 292 328 328 60 410 130 90	Peak MW  0 0 1,230 480 252 1,962  121 359 101 227 276 326 332 154	0 0 0 431 480 192 1,103 0 179 0 76 210	(MW)  0	Hrs  19:00 19:00 19:00 19:00 18:15 20:00	SCHD (MU)  0  18.4  11.21  4.84  34.45  0.96  5.8  1.65	- 0 18.46 11.48 4.85 34.79 1.01 5.89	769 478 202 1,449	0 0 0 0.06 0.27 0.01 0.34
1,413.75  1,204  465  248  1,917  120  534  100  235  292  328  328  60  410  130  90	1,230 480 252 1,962 121 359 101 227 276 326 332 154	0 431 480 192 1,103 0 179 0 76 210	1,230 480 252 - 123 541 101 229	19:00 19:00 19:00 - 19:00 18:15 20:00	0 18.4 11.21 4.84 34.45	18.46 11.48 4.85 34.79	769 478 202 1,449	0.06 0.27 0.01 0.34
1,413.75  1,204  465  248  1,917  120  534  100  235  292  328  328  60  410  130  90	1,230 480 252 1,962 121 359 101 227 276 326 332 154	0 431 480 192 1,103 0 179 0 76 210	1,230 480 252 - 123 541 101 229	19:00 19:00 19:00 - 19:00 18:15 20:00	0 18.4 11.21 4.84 34.45	18.46 11.48 4.85 34.79	769 478 202 1,449	0 0.06 0.27 0.01 0.34
1,204 465 248 1,917  120 534 100 235 292 328 328 60 410 130 90	1,230 480 252 1,962  121 359 101 227 276 326 332 154	431 480 192 1,103 0 179 0 76 210	1,230 480 252 - 123 541 101 229	19:00 19:00 19:00 - 19:00 18:15 20:00	18.4 11.21 4.84 34.45 0.96 5.8	18.46 11.48 4.85 34.79	769 478 202 1,449	0.06 0.27 0.01 0.34
465 248 1,917  120 534 100 235 292 328 328 60 410 130 90	480 252 1,962 121 359 101 227 276 326 332 154	480 192 1,103 0 179 0 76 210	480 252 - 123 541 101 229	19:00 19:00 - 19:00 18:15 20:00	11.21 4.84 34.45 0.96 5.8	11.48 4.85 34.79	478 202 1,449	0.27 0.01 0.34
465 248 1,917  120 534 100 235 292 328 328 60 410 130 90	480 252 1,962 121 359 101 227 276 326 332 154	480 192 1,103 0 179 0 76 210	480 252 - 123 541 101 229	19:00 19:00 - 19:00 18:15 20:00	11.21 4.84 34.45 0.96 5.8	11.48 4.85 34.79	478 202 1,449	0.27 0.01 0.34
248 1,917  120 534 100 235 292 328 328 60 410 130 90	252 1,962 121 359 101 227 276 326 332 154	192 1,103 0 179 0 76 210	252 - 123 541 101 229	19:00 - 19:00 18:15 20:00	4.84 34.45 0.96 5.8	4.85 34.79	202 1,449	0.01
1,917  120  534  100  235  292  328  328  60  410  130  90	1,962  121 359 101 227 276 326 332 154	1,103 0 179 0 76 210	123 541 101 229	19:00 18:15 20:00	34.45 0.96 5.8	34.79	1,449	0.34
120 534 100 235 292 328 328 60 410 130 90	121 359 101 227 276 326 332	0 179 0 76 210	123 541 101 229	19:00 18:15 20:00	0.96	1.01	42	0.05
534 100 235 292 328 328 60 410 130 90	359 101 227 276 326 332 154	179 0 76 210	541 101 229	18:15 20:00	5.8			
534 100 235 292 328 328 60 410 130 90	359 101 227 276 326 332 154	179 0 76 210	541 101 229	18:15 20:00	5.8			
100 235 292 328 328 60 410 130	101 227 276 326 332 154	0 76 210	101 229	20:00		5.89		
235 292 328 328 60 410 130 90	227 276 326 332 154	76 210	229			4 =4		
292 328 328 60 410 130 90	276 326 332 154	210				1.71	71	0.06
328 328 60 410 130 90	326 332 154		AC-	19:00	3.17	3.23	135	0.06
328 60 410 130 90	332 154	328	281	19:00	4.88	4.93	205	0.05
60 410 130 90	154		333	19:00	7.7	7.69	320	-0.01
410 130 90		82	332	19:00	2.61	2.62	109	0.01
130 90	480	0	527	03:00	1.79	1.87	78	0.08
90	458	715	715	02:00	11.01	11.73	489	0.72
	79	0	122	19:00	0.4	0.42	18	0.02
	98	98	99	05:00	2.11	2.28	95	0.17
160	172	137	439	21:00	5.08	5.38	224	0.3
90	94	121	223	01:00	2.95	3.13	130	0.18
2,877	2,797	1,946	-	-	50.11	51.89	2,161	1.78
							1	
390	422	421	431	13:00	9.36	9.27	386	-0.09
352	396	397	398	05:00	8.45	8.46	353	0.01
205	228	227	228	-	4.92	4.83	201	-0.09
947	1,046	1,045		_	22.73	22.56	940	-0.17
	<u> </u>							
128	172	149	254	04:42	1.72	1.59	66	-0.13
98	543	185	543	20:00	5.22	5.18	216	-0.04
240	476	120	476	_	4.8	3.83	160	-0.97
0	0	0	4	13:09	0.02	0.02	1	0
768.6	0	0	0	-	7.74	7.43	310	-0.31
464.27	0	0	0				258	-0.31
				-	6.33	6.18		
872	788	0	869	19:00	9.25	9.71	405	0.46
922.5	992	990	992	20:00	22.16	22.14	923	-0.02
942.5	1,003	992	1,003	20:00	22.64	22.7	946	0.06
942.5	991	968	991	20:00	22.63	22.98	958	0.35
1,510	1,635	1,638	1,648	22:00	36.12	36.02	1,501	-0.1
0	0	0	0	-	0.04	0.04	2	0
0	0	0	0	-	0	•	-	0
382.2	387	260	387	20:00	5.64	6.48	270	0.84
191.1	193	109	193	20:00	2.82	3.11	130	0.29
471.25	490	298	490	20:00	7.15	7.57	315	0.42
0	0	0	0	-	0.02	0.02	1	0
7,932.92	7,670	5,709	-	-	154.3	155	6,462	0.7
1,605	1,485	769	1,507	22:00	23.8	24.07	1,003	0.27
442	406	223	441	19:00	6.61	7.04	293	0.43
· ·	1,891	992	-	-	30.41	31.11	1,296	0.7
2,047								
2,047	407	271	407	20:00	6.37	6.43	268	0.06
2,047	992	734	1,025	19:00	20.14	20.29	845	0.15
,	1,399	1,005	-	-	26.51	26.72	1,113	0.21
-	1,605 442 2,047 406	1,605	1,605     1,485     769       442     406     223       2,047     1,891     992       406     407     271       1,060     992     734       1,466     1,399     1,005	1,605     1,485     769     1,507       442     406     223     441       2,047     1,891     992     -       406     407     271     407       1,060     992     734     1,025       1,466     1,399     1,005     -	1,605     1,485     769     1,507     22:00       442     406     223     441     19:00       2,047     1,891     992     -     -       406     407     271     407     20:00       1,060     992     734     1,025     19:00	1,605     1,485     769     1,507     22:00     23.8       442     406     223     441     19:00     6.61       2,047     1,891     992     -     -     30.41       406     407     271     407     20:00     6.37       1,060     992     734     1,025     19:00     20.14       1,466     1,399     1,005     -     -     26.51	1,605     1,485     769     1,507     22:00     23.8     24.07       442     406     223     441     19:00     6.61     7.04       2,047     1,891     992     -     -     30.41     31.11       406     407     271     407     20:00     6.37     6.43       1,060     992     734     1,025     19:00     20.14     20.29       1,466     1,399     1,005     -     -     26.51     26.72	1,605     1,485     769     1,507     22:00     23.8     24.07     1,003       442     406     223     441     19:00     6.61     7.04     293       2,047     1,891     992     -     -     30.41     31.11     1,296       406     407     271     407     20:00     6.37     6.43     268       1,060     992     734     1,025     19:00     20.14     20.29     845       1,466     1,399     1,005     -     -     26.51     26.72     1,113

IPP/JV
--------

Part	IPP/JV								i				1	1
Part	St-4116	4		Declared Ca	apacity		20:00		Day	Peak		y Energy	AVC MW	TIT
## STREAM PRINT PLAY 1-5   90   9   9   46   98   230   107   121   72   42   425   ## STREAM PRINT PLAY 1-5   10   0   0   140   160   102   170   100   100   101   100   102   ## STREAM PRINT PLAY 1-5   100   0   0   0   0   0   0   0   100   102   170   100   42   42   ## STREAM PRINT PLAY 1-5   100   0   0   0   0   0   0   0   0	Station/Constitu	uents	(MW)	(MW	)	1	Peak MW		(MW)	Hrs		ACT (MU)	AVG. MW	UI UI
MATERIAL RESPONDENCE   100	IPP	l							l				ı	I
SAMPLE NEW YORK TOTO FIRST   1,000	ADHPL(IPP) HPS	S(2*96)	192	0			76	64	94	23:00	1.99	1.72	72	-0.27
1969   1000   0	BUDHIL HPS (IPI	P)( 2 * 35 )	70	0			70	36	71	18:00	0.97	1.01	42	0.04
March   1911   100		TOO HPS( 4	1,000	0			1.000	625	1,000	18:30	13.2	12.98	541	-0.22
Seminary Service		* 50 )												
Section   Control   Cont														
SOLAR ITEM	•									20:00		1.07		
MARKE FORMAL ENDAFFY   200	150)	11) 115(2								-		-		
MATERIAL PROPERTY PROPERTY FOR   10			1,762	0			1,275	824	-	-	18.8	18.4	768	-0.4
True   Fig.		NDIA PVT												
PRIA STATE   1 - 190   10	LTD.(4 * 5	<b>50</b> )	200	-			0	0	152	11:30	0.88	0.8	33	-0.08
PREVATE LTD   1 - 200    20	PRIVATE LTD(	1 * 130)	130	0			0	0	117	12:58	0.66	0.65	27	-0.01
LTD   State   Control	PRIVATE LTD(	1 * 250)	250	0			0	0	200	13:00	1.36	1.17	49	-0.19
1	LTD( 50	)	50	0			0	0	50	13:09	0.32	0.27	11	-0.05
No.   Communication   Commun		PVT LTD( 2	200	0			0	0	200	11:46	1.22	1.01	42	-0.21
			150	0			0	0	128	-	0.97	0.97	40	0
Total State Control Area Generation	Sub-Total		980	0			0	0	-	-	5.41	4.87	202	-0.54
Inst. Capacity	Total		2,742	0			1,275	824			24.21	23.27	970	-0.94
Total State Control Area Generation	Summary Section													
Total Regional Architecture   Total Regional R												• •		•
Total Regional Availability (Gross)				56,26	3		20,765		16,438			443.36	1	8,473
Total Hydror Generation		Exchange [Im	port				9,656		9,761			201.12	1	0,673
Inst. Capacity	Total Regional Availa	bility(Gross)		83,40	9		48,461		38,823			989.82	4	3,536
Regional Entities Hydro	Total Hydro Generati	ion												
State Control Area Hydro			acity		PEAK		OFF-PEAK		Da			y AVG.		
Total Regional Hydro	,					· · · · · · · · · · · · · · · · · · ·				•				
Total Renewable Generation	·											•		
Regional Entities Renewable	Total Regional Hydro	)		19,02	3		13,721		9,332			259.63	1	0,818
Regional Entities Renewable   1.0.0   0   0   4.95   206			T . G	•		DELL		OFF DE LY					. Tro	
State Control Area Renewable   10,596   1,705   843   48,94   1,914	Regional Entities Ren										Da		Da	
Total Regional Renewable														
SLNo.   Element   20:00   03:00   Maximum Interchange (MW)   Import (MW)   Export in MU   Export in MU   Export in MU   NET	Total Regional Renew	vable		· · · · · · · · · · · · · · · · · · ·			1,705		843			50.89		·
SLNo.   Element   20:00   03:00   Maximum Interchange (MW)   Import (MW)   Export in MU   Export in MU   Export in MU   NET	4(A) INTER-REGI	ONAL EXC	HANGES	(Import=(+ve) /	Export =(-v	/e))							!	
Import/Export between EAST REGION and NORTH REGION	CT N-		FI4	<u> </u>	20:	:00	03:00	N	Maximum Inter			I	F	NIET
1   132KV-Garhwa-Rihand	SL.No.		Liement		•			•		Export (1	MW)	Import in MC		NEI
2 132KV-Karmasa (PG)-Sahupuri(UP)							ı	N and NOR					I	
3   132KV-Rihand-Sonnagar (PG)   -   -   -   -   -   -   -   -   -							-		•	-		-	-	-
4   220KV-Pusauli (PG)-Sahipuri(UP)   138   82   140   0   2.26   0   2.26     5   400KV-Biharsharif (PG)-Balia(PG)   128   53   200   0   2.99   0   2.99     6   400KV-Biharsharif (PG)-Varanasi(PG)   238   136   0   238   0   3.14   -3.14     7   400KV-Motalfary (DMT)-Gorakhpur(UP)   -					•	•	-		-	-		-	-	-
5	3	132KV-Riha	nd-Sonnagar	(PG)	-	•	-		-	-		-	-	-
6         400KV-Biharsharif (PG)-Varanasi(PG)         238         136         0         238         0         3.14         -3.14           7         400KV-Motihari (DMT)-Gorakhpur(UP)         . <td>4</td> <td>220KV-Pusa</td> <td>uli (PG)-Sahı</td> <td>upuri(UP)</td> <td>13</td> <td>38</td> <td>82</td> <td>1</td> <td>140</td> <td>0</td> <td></td> <td>2.26</td> <td>0</td> <td>2.26</td>	4	220KV-Pusa	uli (PG)-Sahı	upuri(UP)	13	38	82	1	140	0		2.26	0	2.26
7	5	400KV-Biha	rsharif (PG)-	Balia(PG)	12	28	53	2	200	0		2.99	0	2.99
8         400KV-Muzaffarpur (PG)-Gorakhpur(UP)         216         410         568         0         10.15         0         10.15           9         400KV-Patna (PG)-Balia(PG)         581         579         601         0         8.97         0         8.97           10         400KV-Sasaram-Allahabad (PG)         18         45         60         0         0.91         0         0.91           11         400KV-Sasaram-Varanasi (PG)         173         150         178         0         3.69         0         3.69           12         765KV-Fatehpur (PG)-Sasaram.         -         -85         53         143         0         1.05         -1.05           13         765KV-Gaya (PG)-Balia(PG)         227         301         358         0         5.37         0         5.37           14         765KV-Gaya (PG)-Varanasi(PG)         212         109         7         212         0         1.72         -1.72           15         HVDC800KV-Alipurduar-Agra (PG)         1,200         1,350         1,350         0         31.11         0         31.11           Sub-Total EAST REGION         3,131         3,130         3,515         593         65.45         5.91 <td< td=""><td>6</td><td>400KV-Biha</td><td>rsharif (PG)-</td><td>Varanasi(PG)</td><td>23</td><td>38</td><td>136</td><td></td><td>0</td><td>238</td><td></td><td>0</td><td>3.14</td><td>-3.14</td></td<>	6	400KV-Biha	rsharif (PG)-	Varanasi(PG)	23	38	136		0	238		0	3.14	-3.14
9 400KV-Patna (PG)-Balia(PG) 581 579 601 0 8.97 0 8.97 10 400KV-Sasaram-Allahabad (PG) 18 45 60 0 0 0.91 0 0.91 11 400KV-Sasaram-Varanasi (PG) 173 150 178 0 3.69 0 3.69 12 765KV-Fatehpur (PG)-Sasaram 85 5 53 143 0 1.05 - 1.05 13 765KV-Gaya (PG)-Balia(PG) 227 301 358 0 5.37 0 5.37 14 765KV-Gaya (PG)-Varanasi(PG) 212 109 7 212 0 1.72 - 1.72 15 HVDC800KV-Alipurduar-Agra (PG) 1,200 1,350 1,350 0 31.11 0 31.11 Sub-Total EAST REGION 3,131 3,130 3,515 593 65.45 5.91 59.54  Import/Export between NORTH_EAST REGION and NORTH REGION 1 HVDC800KV-BiswanathCharialli-Agra (PG) 740 740 0 15.78 0 15.78  Sub-Total NORTH_EAST REGION 600 740 740 0 15.78 0 15.78  Import/Export between WEST REGION and NORTH REGION 1 220KV-Auraiya (NT)-Malanpur(PG) -90 -52 - 110 0 1.24 -1.24	7	400KV-Moti	hari (DMT)-0	Gorakhpur(UP)			-		-	-		-	-	-
9 400KV-Patna (PG)-Balia(PG) 581 579 601 0 8.97 0 8.97 10 400KV-Sasaram-Allahabad (PG) 18 45 60 0 0 0.91 0 0.91 11 400KV-Sasaram-Varanasi (PG) 173 150 178 0 3.69 0 3.69 12 765KV-Fatehpur (PG)-Sasaram 85 5 53 143 0 1.05 - 1.05 13 765KV-Gaya (PG)-Balia(PG) 227 301 358 0 5.37 0 5.37 14 765KV-Gaya (PG)-Varanasi(PG) 212 109 7 212 0 1.72 - 1.72 15 HVDC800KV-Alipurduar-Agra (PG) 1,200 1,350 1,350 0 31.11 0 31.11 Sub-Total EAST REGION 3,131 3,130 3,515 593 65.45 5.91 59.54  Import/Export between NORTH_EAST REGION and NORTH REGION 1 HVDC800KV-BiswanathCharialli-Agra (PG) 740 740 0 15.78 0 15.78  Sub-Total NORTH_EAST REGION 600 740 740 0 15.78 0 15.78  Import/Export between WEST REGION and NORTH REGION 1 220KV-Auraiya (NT)-Malanpur(PG) -90 -52 - 110 0 1.24 -1.24	8	400KV-Muza	affarpur		21	16	410		568	0		10.15	0	10.15
10				PC)	<b>5</b> 0	R1	570		501	n		8 07	n	<b>8 07</b>
11	·	-												
12   765KV-Fatehpur (PG)-Sasaram.														
13   765KV-Gaya (PG)-Balia(PG)   227   301   358   0   5.37   0   5.37     14   765KV-Gaya (PG)-Varanasi(PG)   212   109   7   212   0   1.72   -1.72     15   HVDC800KV-Alipurduar-Agra (PG)   1,200   1,350   1,350   0   31.11   0   31.11     Sub-Total EAST REGION   3,131   3,130   3,515   593   65.45   5.91   59.54				- '	17	13								
14         765KV-Gaya (PG)-Varanasi(PG)         212         109         7         212         0         1.72         -1.72           15         HVDC800KV-Alipurduar-Agra (PG)         1,200         1,350         1,350         0         31.11         0         31.11           Sub-Total EAST REGION         3,131         3,130         3,515         593         65.45         5.91         59.54           Import/Export between NORTH_EAST REGION and NORTH REGION           1         HVDC800KV-BiswanathCharialli-Agra (PG)         600         740         740         0         15.78         0         15.78           Sub-Total NORTH_EAST REGION         600         740         740         0         15.78         0         15.78           Import/Export between WEST REGION and NORTH REGION           1         220KV-Auraiya (NT)-Malanpur(PG)         -90         -52         -         110         0         1.24         -1.24					-									
15														
Sub-Total EAST REGION   3,131   3,130   3,515   593   65.45   5.91   59.54														
Import/Export between NORTH_EAST REGION and NORTH REGION				r-Agra (PG)			· · · · · · · · · · · · · · · · · · ·			0				
1         HVDC800KV-BiswanathCharialli-Agra (PG)         600         740         740         0         15.78         0         15.78           Sub-Total NORTH_EAST REGION         600         740         740         0         15.78         0         15.78           Import/Export between WEST REGION and NORTH REGION           1         220KV-Auraiya (NT)-Malanpur(PG)         -90         -52         -         110         0         1.24         -1.24	Sub-	Total EAST	REGION				,					65.45	5.91	59.54
Sub-Total NORTH_EAST REGION   600   740   740   0   15.78   0   15.78					Import/E	xport betwee	en NORTH_EAST RE	GION and N	NORTH REGIO	)N				
Import/Export between WEST REGION and NORTH REGION	1			60	00	740	7	740	0		15.78	0	15.78	
Import/Export between WEST REGION and NORTH REGION	Sub-Total	PG)		60	)0	740	7	740	0		15.78	0	15.78	
1													1	
	1	220KV-Aura	iya (NT)-Ma	lanpur(PG)					-	110		0	1.24	-1.24
					3	7			85					
3 220KV-Ranpur-Bhanpur 15 14 73 - 0.65 0 0.65			•							_				
4 400KV-RAPS C (NP)-Sujalpur 99 187 260 0 4.05 0 4.05		-												
200 0 1000 0 1000			- (- :- ) Duj	¥		-	1					1		

		Import/Export be	etween WEST REGIO	ON and NORTH REGION				
5	400KV-Vindhyachal (PG)-Rihand(NT)	-941	-927	-	969	0	22.98	-22.98
6	400KV-Zerda (PG)-Bhinmal(PG)	36	120	195	158	2.07	0	2.07
7	400KV-Zerda (PG)-Kankroli(RJ)	48	65	96	12	1.4	0	1.4
8	765KV-0rai-Gwalior (PG)	-190	-233	0	285	0	5.58	-5.58
9	765KV-0rai-Jabalpur	934	1,024	1,122	0	22.73	0	22.73
10	765KV-0rai-Satna	1,163	1,141	1,193	0	28.17	0	28.17
11	765KV-Chittorgarh-Banaskata D/C	675	695	875	0	15	0	15
12	765KV-Gwalior (PG)-Agra(PG)	1,464	1,402	1,798	0	33.6	0	33.6
13	765KV-Phagi (RJ)-Gwalior(PG)	727	766	895	-	17.91	0	17.91
14	HVDC500KV-Mundra (JH)-Mohindergarh(JH)	1,198	901	1,203	0	23.34	0	23.34
15	HVDC500KV-Vindhyachal (PG)-Vindhaychal B/B	-500	-500	0	500	0	12.04	-12.04
16	HVDC800KV-Champa (PG)-Kurukshetra(PG)(PG)	1,250	1,250	1,250	0	17.52	0	17.52
Sul	b-Total WEST REGION	5,925	5,891	9,045	2,034	167.64	41.84	125.8
Te	OTAL IR EXCHANGE	9,656	9,761	13,300	2,627	248.87	47.75	201.12
4(B) Inter Region	nal Schedule & Actual Exchange (Impor	t=(+ve) /Export =(-ve))	in MU	1		ļ	ļ	
	ISGS/(LT+MT) Schedule	BILT Sel	nedule	PX Schedule	Total IR Schedule	Total IR Actual	NE'	Γ IR UI
NR-ER	36.74	5.71	-	2.23	44.68	59.54	1	14.86
NR-WR	155.31	20.7	3	-8.39	167.65	125.8	-	41.85
Total	192.05	26.4	4	-6.16	212.33	201.12	-	11.21
5.Inter National 1	Exchange with Nepal [Import (+ve)/Exp	ort(-ve)] [Linkwise]						
	Element	Peak	Off-Peak		erchange(MW)	Energy	` '	Net Energy
		MW	MW	Import	Export	Import	Export	(MU)
132KV-Tan	nakpur(NH)-Mahendranagar(PG)	27.01	0	0	27	0	0.219	-0.219

Element	Peak	Off-Peak	Maximum Inte	rchange(MW)	Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	(MU)
132KV-Tanakpur(NH)-Mahendranagar(PG)	27.01	0	0	27	0	0.219	-0.219

## 5.Frequency Profile

5.1 requency 1 rome										
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	.4	4.5	34.6	79.5	15.1	.9	0	15.9
<	•			•	•			•		-

Max	ximum	Mi	nimum	Average	Freq Variation	Standard	Freq. in 15	mnt blk	Freq Dev Index
Frequency	Time	Frequency	Time	Frequency	Index	Deviation	Max.	Min.	(% of Time)
50.16	13:04:00	49.76	16:44:40	50.01	0.027	0.052	50.1	49.85	20.5

6.Voltage Profile: 400kV

	M	aximum	Minim	um		Volta	ge (in %)		Voltage Deviation Index
					< 380	< 390	> 420	> 430	(% of time)
Abdullapur(PG) - 400KV	422	03:05	402	18:45	0	0	9.72	0	9.72
Amritsar(PG) - 400KV	425	03:15	402	02:30	0	0	23.26	0	23.26
Ballabgarh(PG) - 400KV	421	03:05	400	18:45	0	0	3.13	0	3.13
Bareilly II(PG) - 400KV	417	03:05	398	18:45	0	0	0	0	0
Bareilly(UP) - 400KV	418	03:15	399	18:45	0	0	0	0	0
Baspa(HP) - 400KV	420	01:00	403	18:45	0	0	20.83	0	20.83
Bassi(PG) - 400KV	423	03:15	403	18:45	0	0	11.81	0	11.81
Bawana(DTL) - 400KV	423	03:05	403	18:45	0	0	15.63	0	15.63
Dadri HVDC(PG). - 400KV	422	03:00	422	03:00	2.08	2.08	5.21	0	7.29
Gorakhpur(PG) - 400KV	419	16:00	400	18:45	0	0	0	0	0
Hisar(PG) - 400KV	423	03:05	402	18:45	0	0	15.63	0	15.63
Kanpur(PG) - 400KV	416	03:00	400	18:45	0	0	0	0	0
Kashipur(UT) - 400KV					0	0	0	0	0
Kishenpur(PG) - 400KV	420	23:05	402	00:00	0	0	0	0	0
Moga(PG) - 400KV	422	03:15	404	18:45	0	0	16.32	0	16.32
Nallagarh(PG) - 400KV	420	01:00	403	18:45	0	0	20.83	0	20.83
Rihand HVDC(PG) - 400KV	404	16:00	404	16:00	.35	.35	0	0	.35
Rihand(NT) - 400KV	403	16:00	403	16:00	.35	.35	0	0	.35

6.1 Voltage Profile: 765kV

or coreage received				
	Maximum	Minimum	Voltage (in %)	Voltage Deviation Index

					< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	796	02:35	780	18:45	0	0	0	0	0
Balia(PG) - 765KV	786	16:00	758	18:45	0	0	0	0	0
Bareilly II(PG) - 765KV	796	03:00	760	18:45	0	0	0	0	0
Bhiwani(PG) - 765KV	800	01:05	774	18:45	0	0	0	0	0
Fatehpur(PG) - 765KV	775	16:00	748	18:45	0	0	0	0	0
Jhatikara(PG) - 765KV	801	03:15	767	18:45	0	0	2.08	0	2.08
Lucknow II(PG) - 765KV	792	16:00	759	18:45	0	0	0	0	0
Meerut(PG) - 765KV	806	03:05	771	09:50	0	0	8.68	0	8.68
Moga(PG) - 765KV	800	03:15	765	18:45	0	0	0	0	0
Phagi(RJ) - 765KV	803	03:00	779	18:45	0	0	5.9	0	5.9
Unnao(UP) - 765KV	774	03:50	745	18:45	0	0	0	0	0

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

	Off- Peak Hours (03:00)			] ]	Peak Hours (20:00)			Day Energy (MU)			
State	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	ISGS /(LT+MT) Schedule	BILT Schedule	PX Schedule	Total (MU)	
PUNJAB	-24.14	0	0	-226.86	0	0	74.36	-1.39	-0.2	72.78	
HARYANA	873.62	212.47	0	932.19	155	0	88.32	21.63	6.89	116.84	
RAJASTHAN	-59.93	184.76	0	-59.93	61.08	0	70.53	-1.44	3.69	72.78	
DELHI	113.36	204.33	0	150.79	417.7	0	60.49	3.29	12.92	76.7	
UTTAR PRADESH	777.43	59.53	0	1,414.33	65.18	0	137.75	15.79	-6.7	146.84	
UTTARAKHAND	0	-172.31	0	0	-113.24	0	17.48	0	-3.82	13.67	
HIMACHAL PRADESH	-226.08	-188.79	0	-332.45	-851.37	0	22.75	-6.41	-10.74	5.61	
JAMMU & KASHMIR	-71.7	-298.25	0	-72.91	0	0	22.86	-1.74	-2.4	18.73	
CHANDIGARH	0	0	0	0	-90.53	0	5.61	0	-1.12	4.48	
TOTAL	1,382.56	1.74	0	1,805.16	-356.18	0	500.15	29.73	-1.48	528.43	

7(B). Short-Term Open Access Details

	ISGS/(LT-	+MT) Schedule	Bilateral (MW)		IEX (MW)		PXIL (MW)	
State	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
PUNJAB	3,585.52	2,851.59	-24.14	-429.58	0	-202.72	0	0
HARYANA	4,351.43	3,047.78	932.19	873.62	709.44	7.13	0	0
RAJASTHAN	3,402.9	2,250.3	-59.93	-59.93	185.34	-5.43	0	0
DELHI	3,066.73	2,103.45	178.5	112.39	949.83	84.28	0	0
UTTAR PRADESH	7,017.85	4,875.08	1,419.53	116.7	121.6	-1,611.39	0	0
UTTARAKHAND	1,026.14	494.8	0	0	0	-260.59	0	0
HIMACHAL PRADESH	1,478.12	592.41	-219.54	-368.02	-153.69	-951.83	0	0
JAMMU & KASHMIR	1,426.82	672.74	-71.7	-72.91	0	-298.25	0	0
CHANDIGARH	314.86	162.41	0	0	0	-97.58	0	0

8.Major Reservoir Particulars

	Parameters			Present Parameters		LAST YEAR		LAST DAY	
RESERVOIR	MDDL (Mts)	FRL (Mts)	Energy Content at FRL	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	1,728.8	510.36	1,560	507.68	1,441	604.54	483.37
Chamera-I	748.75	760	753.95	-	-	-	-	-	0
Gandhisagar	381	399.9	725	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	2.01	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.73	611.18	5	610.31	5	435	424.18
Pong	384.05	426.72	1,084	422.43	1,006	424.44	1,098	343.6	276.68
RPS	343.81	352.8	175.66	-	-	-	-	-	0
RSD	487.91	527.91	390.3	523.53	3	526.93	10	159.26	118.73
Rihand	252.98	268.22	860.5	262.4	443	264.14	554	-	0
Tehri	740.04	829.79	1,291.49	827.4	1,159	826.55	1,141	276.23	435
TOTAL	-	-	-	-	4,176	-	4,249	1,818.63	1,737.96

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

(i)% age of times N-1 Criteria was violated in the inter - regional corridors  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

WR	0
ER	0
Simultaneous	0

#### ii)%age of times ATC violated on the inter-regional corridors $% \left\{ 1\right\} =\left\{ 1$

WR	0
ER	0
Simultaneous	0

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

Rihand-Dadri	0

#### 10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
CHANDIGARH	1	13
DELHI	2	15
HARYANA	1	21
HIMACHAL PRADESH	0	10
JAMMU & KASHMIR	3	29
PUNJAB	1	13
RAJASTHAN	2	21
UTTAR PRADESH	1	13
UTTARAKHAND	7	77

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: 125 MVAR Bus Reactor at 400kV Masoli (UP) first time charged at 17.32 Hrs.

 ${\bf 16. Tripping\ of\ lines\ in\ pooling\ stations:}$ 

 ${\bf 17. Complete\ generation\ loss\ in\ a\ generating\ station:}$ 

 $Note: Data (regarding\ drawal, generation,\ shortage\ ,\ inter-regional\ flows\ and\ reservoir\ levels) of\ the\ constituents\ filled\ in\ the\ report\ are\ as\ per\ last\ furnished\ data\ by\ the\ respective\ state/constituent\ to\ NRLDC.$ 

**Shift In Charge**