

January 2019

प्रणाली प्रचालन विवरण

SYSTEM OPERATION REPORT

SOUTHERN REGION 2018-19



SOUTHERN REGIONAL LOAD DESPATCH CENTRE
POWER SYSTEM OPERATION CORPORATION LTD
January 2019 BANGALORE

SUMMARY REPORT

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SR GRID SUMMARY FOR THE MONTH OF January-2019

	ANDHRA PRADESH	TELANGANA	KARNATAKA	KERALA	TAMIL NADU
(I) GENERATION DETAILS:(MU)					
HYDRO	225.22	66.10	1177.75	355.09	379.01
THERMAL	1591.10	2385.38	935.28		2389.10
DIESEL	0.00	0.00	0.00	0.00	0.00
GAS	68.62				290.00
TOTAL	1884.94	2451.48	2113.03	355.09	3058.11
INDEPENDENT P.P *	381.51	166.10	686.81	6.89	592.67
INTER REGIONAL IMPORT(HVDC)	As per Annexure				
WIND MILL & SOLAR	720.17	577.78	1335.60	17.69	707.95
CAPTIVE PLANTS * *	0.00	0.00	0.00	0.00	0.00
TOTAL DRAWALS INCL HVDC	2009.37	2255.16	2331.31	1632.28	4325.04
(II)ACTUAL CONSUMPTION (MU)	4995.99	5450.52	6466.75	2011.95	8683.77
(III) MAXIMUM DEMAND(MW)	8461	9323	11782.78	3704.366	14462
MAX DEMAND ON DATE	25-01-2019	05-01-2019	11-01-2019	29-01-2019	24-01-2019
MAX DEMAND AT TIME	08:00	08:02	10:00	19:00	19:00
FREQUENCY OF MAX DEMAND	50	50.03	50	49.97	50.09

REGIONAL MAXIMUM DEMAND:	MW	DATE	TIME	FREQUENCY
	44615	11-Jan-2019	08:26:40	50.02

II)IMPORTANT EVENTS

a)COMMISSIONING OF NEW GENERATING UNITS

SL.NO.	STATE/ISGS	STATION NAME	UNIT	CAPACITY (MW)	TYPE	DATE
Nil						

b)COMMISSIONING OF NEW TRANSMISSION LINES

SL.NO.	CONSTITUENT	ICT/LINE NAME & CKT NO.	KV	Length (CkM)	DATE
1	APTRANSCO	400 kV Uravakonda-Hindupur-1	400		22-Jan-19
2	APTRANSCO	400 kV Uravakonda-Hindupur-2	400		22-Jan-19
3	POWERGRID	400 kV Tumkur-Dharmapuri-2	400		24-Jan-19
4	NNTPS	230 kV NNTPS-MINES-1	230		24-Jan-19
5	NNTPS	230 kV NNTPS-MINES-2	230		24-Jan-19
6	TNTRANSCO	230 kV Myvadi-Kurukathi	230		31-Jan-19
7	TNTRANSCO	230 kV Myvadi-Kurukathi	230		31-Jan-19

c)COMMISSIONING OF NEW SUBSTATIONS

SL.NO.	CONSTITUENT	STATION NAME	KV RATIO	CAPACITY (MVA)	DATE
Nil					

c)COMMISSIONING OF REACTORS

SL.NO.	CONSTITUENT	STATION/LINE NAME	BUS/LINE	CAPACITY (MVAR)	DATE
Nil					

III) a) FREQUENCY PROFILE FOR THE MONTH [Hz]

	FREQUENCY (HZ)	DATE	FVI	DATE
MAXIMUM	50.28	22-Jan-19	0.09	03-Jan-19
MINIMUM	49.58	04-Jan-19	0.03	20-Jan-19
AVERAGE	50.01		0.03	

b) FREQUENCY DISTRIBUTION FOR THE MONTH

The frequency ranges as a percentage of time during the month

%TIME FREQUENCY	< 49.9	49.90-50.05	>50.05
%	3.83	73.60	22.57

IV) POWER SUPPLY POSITION FOR THE MONTH

	AP	TG	KAR	KER	TN	PONDY	REGION
UNRESTRICTED PEAK DEMAND(MW)	8461	9323	11782.78	3704.366	14462	387	44615
PEAK DEMAND MET (MW)	8461	9323	11782.78	3704.366	14462	387	44615
UNRESTRICTED ENERGY REQMT(MU)	4995	5449	6465	2011	8681	218	27819
ENERGY MET (MU)	4995	5450	6467	2012	8684	218	27826

FREQUENCY PROFILE FOR January-2019

	MAX	MIN	AVG	<49.9	49.9-50.05	>50.05	FVI	STD_DEV
01-Jan-19	50.27	49.69	49.99	9.98	71.71	18.31	0.058	0.076
02-Jan-19	50.13	49.79	49.96	15.83	78.45	5.72	0.050	0.058
03-Jan-19	50.18	49.67	49.96	22.37	62.25	15.38	0.088	0.085
04-Jan-19	50.17	49.58	49.96	22.23	65.68	12.08	0.085	0.085
05-Jan-19	50.24	49.75	50.00	7.05	68.40	24.55	0.049	0.070
06-Jan-19	50.19	49.80	50.02	4.42	66.74	28.84	0.037	0.059
07-Jan-19	50.20	49.73	50.00	7.32	71.19	21.49	0.040	0.063
08-Jan-19	50.19	49.80	50.00	6.50	74.22	19.27	0.038	0.061
09-Jan-19	50.17	49.76	49.98	11.83	75.78	12.40	0.043	0.063
10-Jan-19	50.21	49.74	49.97	12.27	77.71	10.02	0.050	0.066
11-Jan-19	50.17	49.75	49.97	20.87	69.79	9.34	0.064	0.073
12-Jan-19	50.23	49.74	49.98	17.72	66.81	15.48	0.066	0.078
13-Jan-19	50.25	49.78	50.01	5.59	69.58	24.83	0.042	0.065
14-Jan-19	50.23	49.79	50.01	4.43	66.35	29.21	0.043	0.064
15-Jan-19	50.18	49.78	50.01	6.32	66.99	26.69	0.042	0.064
16-Jan-19	50.18	49.78	50.00	8.80	66.17	25.04	0.048	0.069
17-Jan-19	50.19	49.80	50.00	8.47	74.10	17.43	0.038	0.061
18-Jan-19	50.11	49.73	49.96	20.36	72.22	7.42	0.068	0.070
19-Jan-19	50.21	49.67	49.99	8.09	75.75	16.16	0.043	0.065
20-Jan-19	50.20	49.78	50.01	2.86	71.94	25.20	0.033	0.056
21-Jan-19	50.16	49.69	50.00	10.64	67.20	22.16	0.056	0.074
22-Jan-19	50.28	49.68	50.00	11.89	64.57	23.54	0.062	0.078
23-Jan-19	50.24	49.79	49.99	9.35	71.23	19.42	0.048	0.069
24-Jan-19	50.17	49.72	49.99	8.73	71.97	19.31	0.043	0.065
25-Jan-19	50.18	49.79	49.98	11.39	74.06	14.55	0.046	0.066
26-Jan-19	50.24	49.74	50.01	6.70	64.21	29.09	0.054	0.073
27-Jan-19	50.22	49.65	50.00	11.41	58.44	30.15	0.065	0.081
28-Jan-19	50.17	49.75	49.99	13.35	67.56	19.10	0.057	0.074
29-Jan-19	50.16	49.72	49.98	13.83	71.92	14.25	0.058	0.072
30-Jan-19	50.18	49.79	49.99	6.88	77.59	15.53	0.038	0.061
31-Jan-19	50.18	49.79	50.01	3.83	73.60	22.57	0.033	0.057
AVERAGE	50.20	49.74	49.99	10.69	70.13	19.18	0.05	0.07
MAX	50.28	22-01-2019				03-01-2019	0.088	0.085
MIN	04-01-2019	49.58				20-01-2019	0.033	0.056

IV) PERFORMANCE OF CONSTITUENTS

ENERGY GENERATED BY GENERATING STATIONS / UNITS IN SOUTHERN REGION DURING January-2019

ANDHRA PRADESH						
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Jan-19	From 01-04-18 To 31-01-2019
HYDRO						
1	MACHKUND	(3x23+3x17)x70%	=	84.00	29.55	244.65
2	T.B.DAM	(8x9)x80%	=	57.60	9.05	109.89
3	UPPER SILERU	4x60	=	240.00	9.31	305.97
4	DONKARAYI	1x25	=	25.00	43.97	113.08
5	LOWER SILERU	4x115	=	460.00	115.55	853.68
6	SRISAILAM RBPH	7x110	=	770.00	0.42	554.89
7	NSR RT.CANAL.P.H	3x30	=	90.00	9.40	102.69
8	PENNA AHOBILAM	2x10	=	20.00	0.00	1.31
9	Mini Hydro & Nagarjunasagar Tailpond	1+2x25	=	51.00	0.17	5.07
	TOTAL			1797.60	217.42	2291.24
THERMAL						
1	VIJAYAWADA	6x210 + 1x500	=	1760.00	855.58	9159.79
2	RAYALASEEMA	5x210+1X600	=	1650.00	488.59	5032.83
3	KRISHNAPATNAM	2x800	=	1600.00	403.78	6138.99
	TOTAL			5010.00	1747.95	20331.60
GAS/NAPTHA/DIESEL						
1	VIJESWARAM STAGE 1 (GAS)	2x33+1x34	=	100.00	69.36	123.34
2	VIJESWARAM STAGE 2 (GAS)	1x112.5+1x59.5	=	172.00	0.00	851.03
	TOTAL			272.00	69.36	974.37
WIND/SOLAR						
1	SOLAR JURALA	5.43	=	5.43	0.00	0.00
2	Wind	0	=	0.00	0.00	0.00
	TOTAL			5.43	0.00	0.00
IPP						
1	MINI HYDRO	103.098	=	103.10	9.90	176.90
COAL						
2	HINDUJA POWER CORPORATION LTD	2x520	=	1040.00	61.51	532.55
GAS/NAPTHA/DIESEL						
1	GVK-I (Godavari Gas)	2x45.8+1x48.9+1x75.5	=	216.82	74.42	696.45
2	GVKStg-II EXTENSION(GAS)	1x145+1x75	=	220.00	0.00	0.00
3	SPECTRUM (GAS)	1x46.8+2x46.1+1x68.88	=	208.31	61.69	1005.81
4	LANCO (GAS)	2x115+1x125	=	351.49	99.77	1484.95
5	ISOLATED GAS WELL (GAS) (LVS)	27.04	=	27.04	0.00	0.00
6	RELIANCE ENERGY LTD. (GAS)	1x140+1x80	=	220.00	0.00	0.00
7	VEMAGIRI POWER GENERATION LTD.(GAS)	1x233+1x137	=	370.00	0.00	0.00
8	GAUTAMI CCPP	2x145 + 1x174	=	464.00	0.00	0.00
9	KONASEEMA CCPP	145.9911+140.0899+165	=	444.08	0.00	0.00
10	GMR (BARG)	237	=	237.00	0.00	0.00
	Total			2758.74	7876.73	3187.20
WIND / SOLAR / OTHERS						
1	Solar Energy(RPSSGP, NVVN, Grid interactive)	1996.426	=	1996.43	344.88	363.33
2	Solar Energy (AP State Solar Policy)	844.35	=	844.35		
3	WIND	4061.37	=	4061.37	375.28	8165.37
4	BAGASSE+BIOMASS+WASTE BASED PP+CO-GENERATION (NC)	489.81	=	489.81	148.97	817.39
5	MINI POWER PLANTS	82	=	82.00	0.00	0.00
	RE Total			7473.96	869.13	9346.09
	TOTAL IPP			11375.79	9502.84	23342.87
	TOTAL ANDHRA PRADESH			18460.824	11537.58	46940.08

TELANGANA						
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)		ENERGY GENERATION		
				Jan-19	From 01-04-18 To 31-01-2019	
HYDRO						
1	SRISAILAM LBPH	6x150	=	900.00	36.05	937.61
2	N'SAGAR	1x110+7x100.8	=	815.60	28.99	263.21
3	NSR LT.CANAL.P.H	2x30	=	60.00	1.55	60.43
4	NIZAMSAGAR	2x5	=	10.00	0.00	2.02
5	POCHAMPAD	4x9	=	36.00	0.00	25.80
6	SINGUR	2x7.5	=	15.00	0.00	0.33
7	JURALA	6x39	=	234.00	0.00	123.94
8	LOWER JURALA	6x40	=	240.00	0.16	154.25
9	PULICHINTALA	4x30	=	120.00	0.00	0.00
10	MINI HYDEL	11.16	=	11.16	0.00	0.00
	TOTAL			2441.76	30.70	629.99
THERMAL						
1	RAMAGUNDAM-B	1x62.5	=	62.50	39.89	338.82
2	KOTHAGUDEM-A	4x60	=	240.00	96.40	1045.18
3	KOTHAGUDEM-B	2x120	=	240.00	58.87	1029.33
4	KOTHAGUDEM-C	2x120	=	240.00	615.67	1764.84
5	KOTHAGUDEM-D	2x250	=	500.00	207.03	3136.63
6	KOTHAGUDEM ST VI	1x500+800	=	1300.00	356.79	3265.81
7	KAKATIYA ST1&ST2	1x500+1x600	=	1100.00	333.87	7054.49
	TOTAL			3682.50	1708.50	17635.10
WIND/SOLAR						
1	Solar	1	=	1.00	0.00	0.00
2	Wind	0	=	0.00	0.00	0.00
	TOTAL			1.00	0.00	0.00
IPP						
1	MINI HYDRO(SMALL HYDRO)	41.605	=	41.61	0.00	0.00
COAL						
1	SINGARENI TPS	2x600	=	1200.00	830.66	6698.68
WIND / SOLAR / OTHERS						
1	Solar	3478.472	=	3478.47	560.03	4660.43
2	BAGASSE+BIOMASS+WASTE BASED PP+CO-GENERATION (NC)	252.2	=	252.20	31.00	305.00
3	WIND	128.1	=	128.10	17.73	236.54
	RE TOTAL			3858.77	48.73	541.54
	TOTAL IPP			5100.38	1999.45	14758.87
	TOTAL TELANGANA			11225.637	3738.66	33023.97
KARNATAKA						
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)		ENERGY GENERATION		
				Jan-19	From 01-04-18 To 31-01-2019	
HYDRO						
1	SHARAVATHY	10x103.5	=	1035.00	506.37	3767.96
2	LINGANAMAKKI.P.H.	2x27.5	=	55.00	31.21	197.03
3	JOG (MGHES)	4x21.6+4x13.2	=	139.20	17.33	161.72
4	NAGJHERI	1x135+5x150	=	885.00	303.38	2172.91
5	SUPA	2x50	=	100.00	73.86	468.93
6	VARAHI	4x115	=	460.00	109.59	982.74
7	BHADRA POWER HOUSE	1x7+2x12.1+1x2+6	=	39.20	6.34	45.85
8	SIVANSAMUDRAM	6x3+4x6	=	42.00	14.26	274.25
9	SHIMSHA	2x8.6	=	17.20	0.00	27.01
10	MUNIRABAD	1x10 + 3x9	=	28.00	4.34	92.66
11	T.B.DAM SHARE (20 %)	8x9(20%)	=	14.40	2.40	27.01
12	GHATAPRABHA	2x16	=	32.00	5.93	72.95
13	MANI DAM.P.H.	2x4.5	=	9.00	5.20	28.14
14	MINI HYDRO	1.4+0.35+2.7	=	4.45	0.00	0.00
15	MALLAPUR	2x4.5	=	9.00	0.00	0.00
16	KADRA	3x50	=	150.00	24.53	316.92
17	KODASALLI	3x40	=	120.00	31.27	277.45
18	SHARAVATHI TAIL RACE	4x60	=	240.00	50.64	430.60
19	ALMATTI	1x15+5x55	=	290.00	2.92	406.33
	TOTAL			3669.45	1189.57	9750.45

<u>THERMAL</u>						
1	RAICHUR.T.PS.	7x210 +1x250	=	1720.00	573.98	6986.82
2	BELLARY TPS	2x 500+1x700	=	1700.00	449.43	2967.24
3	YERAMARAS TPS	2x800	=	1600.00	0.00	861.56
	TOTAL			5020.00	1023.41	10815.63
<u>GAS/NAPTHA/DIESEL</u>						
<u>WIND/SOLAR</u>						
1	SOLAR	34.00	=	34.00	4.51	33.58
2	Wind	0.00	=	0.00	0.33	4.53
	TOTAL			34.00	4.84	82.65

IPP					
HYDRO					
1	MINI HYDEL	853.46	=	853.46	0.00
COAL					
1	UPCL(THERMAL)	2x600	=	1200.00	255.65
2	JINDAL (COAL & COREX)	2x130+4x300	=	1460.00	44.57
				2660.00	300.22
				5764.72	
GAS/NAPTHA/DIESEL					
1	TATA ELECTRIC (DIESEL)	5x16.26	=	81.30	0.00
2	RAYAL SEEMA ALKALIES (DIESEL)	3x12	=	36.00	0.00
3	I T P L (DIESEL)	9	=	9.00	0.00
				126.30	
WIND / SOLAR / OTHERS					
1	WIND MILL	4737.56	=	4737.56	1714.01
2	CO-GENERATION+Biomass	1673.16	=	1673.16	
3	SOLAR	5206.73	=	5206.73	
4	Bio mass	134.03	=	158.80	
RE TOTAL				11776.25	1714.01
TOTAL IPP				15416.01	2314.45
TOTAL KARNATAKA				24139.460	4532.28
KERALA					
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)	ENERGY GENERATION		
			Jan-19	From 01-04-18 To 31-01-2019	
HYDRO					
1	KUTTIADI + EXTENTION + ADDL. EXTN.	3x25 + 50 +50+50	=	225.00	18.78
2	SHOLAYAR	3x18	=	54.00	15.77
3	PORINGALKUTHU	4x8	=	32.00	2.35
4	PORIG. L. BANK	16	=	16.00	7.68
5	PALLIVASAL	3x7.5+3x5	=	37.50	9.87
6	SENGULAM	4x12	=	48.00	8.99
7	PANNIAR	2x16	=	32.00	7.11
8	NERIAMANGALAM + EXTENSION	3x17.5 +25	=	77.50	13.93
9	SABARIGIRI	2x60 + 4x55	=	340.00	60.47
10	IDUKKI	3x130+3x130	=	780.00	158.25
11	IDAMALAYAR	2x37.5	=	75.00	20.92
12	KALLADA	2x7.5	=	15.00	1.55
13	PEPPARA	3	=	3.00	0.49
14	MADUPETTY	2	=	2.00	0.00
15	MALAMPUZHA	1x2.5	=	2.50	0.59
16	L.PERIYAR	3x60	=	180.00	15.90
17	KAKKAD	2x25	=	50.00	9.11
18	CHEMBUKADAVU	1x2.7+1x3.75	=	6.45	0.00
19	URUMI	1 x 3.75 + 1 x 2.4	=	6.15	0.00
20	MALANKARA	3 x 3.5	=	10.50	2.19
21	LOWER MEENMUTTY	2x1.5 + 1x0.5	=	3.50	0.08
22	KUTTIADI TAIL RACE	3 x 1.25	=	3.75	0.27
23	POOZHITHODE	3 x 1.60	=	4.80	0.03
24	RANIPERUNADU	2 x 2	=	4.00	0.01
25	VILANGAD	3x2.5	=	7.50	0.02
26	PEECHI	1 x 1.25	=	1.25	0.29
TOTAL				2017.40	354.66
				6723.01	
GAS/NAPTHA/DIESEL					
1	BRAHMAPURAM DGPP (DIESEL)*	3x21.32	=	63.96	0.00
2	KOZHICODE DPP (DIESEL)*	6x16	=	96.00	0.00
TOTAL				159.96	0.00
				0.27	
WIND					
1	WIND MILL	59.30	=	59.30	0.12
2	solar	90.86	=	90.86	0.64
TOTAL				150.16	0.76
				7.24	
IPP HYDRO					
1	MANIYAR	3x4	=	12.00	0.28
2	KUTHUNGAL	3x7	=	21.00	1.09
3	ULLUNGAL	2x3.5	=	7.00	0.61
				8.32	

4	IRUTTUKANAM	1x3	=	3.00	0.00	10.51
5	KARIKKAYAM	3 x 3.5	=	10.50	1.16	44.40
6	MEENVALLAM	1 x 3	=	3.00	0.10	7.44
				56.50	3.24	151.07
GAS/NAPTHA/DIESEL						
1	RGCCPP,KAYAMKULAM (KSEB) - NTPC	2x116.6(GT)+1x126.38(ST)	=	359.58	0.00	0.00
2	BSES (NAPTHA)	3x40.5(GT)+1x35.5(ST)	=	157.00	0.00	0.00
3	KASARGODE (DIESEL)	3x7.31	=	21.93	0.00	0.00
4	MPS STEEL CASTINGS	1x10	=	10.00	0.00	0.00
				548.51	0.00	0.00
WIND/OTHERS						
1	AGALI+RAMAKKELMEDU	18.6+14.25	=	57.25	6.59	96.85
2	solar	15	=	59.18	10.07	10.07
3	PCBL Co-Generation	10	=	20.00	3.62	3.62
RE TOTAL				136.43	20.28	110.54
TOTAL IPP				741.44	26.76	412.67
TOTAL KERALA				3068.960	382.17	7143.20

TAMILNADU						
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Jan-19	From 01-04-18 To 31-01-2019
HYDRO						
1	PYKARA	3x6.65+1x11+2x14	=	58.95	0.43	22.00
2	PYKARA MICRO	1x2	=	2.00	0.64	7.26
3	PYKARA ULTIMATE (PUSHEP)	3x50	=	150.00	31.69	453.80
4	MOYAR	3x12	=	36.00	10.59	143.25
5	MARAVAKANDI	1x0.75	=	0.75	0.08	1.12
6	KUNDAH-I	3x20	=	60.00	17.01	167.37
7	KUNDAH-II	5x35	=	175.00	38.79	534.72
8	KUNDAH-III	3x60	=	180.00	22.24	312.01
9	KUNDAH-IV	2x50	=	100.00	3.10	228.84
10	KUNDAH-V	2x20	=	40.00	3.77	41.20
11	SURULIYAR	1x35	=	35.00	3.23	30.63
12	KADAMPARAI	4x100	=	400.00	29.01	549.14
13	ALIYAR	1x60	=	60.00	7.68	0.00
14	POONACHI	1x2	=	2.00	0.05	3.63
15	METTUR DAM	4x12.5	=	50.00	9.25	21.46
16	METTUR TUNNEL	4x50	=	200.00	23.01	0.12
17	LOWER METTUR BARRIAGE - 1 TO 4	8x15	=	120.00	23.73	15.44
18	BHAVANISAGAR MICRO	4x2	=	8.00	4.42	5.54
19	PERIYAR	4x35	=	140.00	34.45	484.88
20	VAIGAI	2x3	=	6.00	1.10	2.18
21	PAPANASAM	4x8	=	32.00	16.06	51.68
22	SERVALAR	1x20	=	20.00	5.24	14.46
23	SARKARAPATHY	1x30	=	30.00	14.14	0.00
24	SHOLAYAR	2x35+25	=	95.00	24.37	0.18
25	KODAYAR	1x60+1x40	=	100.00	24.26	126.68
26	LOWER BHAVANISAGAR	2X4	=	8.00	1.78	0.00
27	SATHANUR DAM PH	1x7.5	=	7.50	0.55	0.72
28	KUNDAH-VI (Parson Valley)	1x30	=	30.00	0.55	0.72
29	MICRO TOTAL	0.70+1.95+2.5+4+1.3+5.25	=	15.70	4.45	43.99
30	BHAVANI KATTALAI BARRAGE - I & II	4x15	=	60.00	21.34	3.21
	TOTAL			2221.90	377.02	3266.23
THERMAL						
COAL/LIGNITE						
1	ENNORE.T.P.S*	2x60+3x110	=	0.00	0.00	0.00
2	TUTUCORIN.T.P.S	5x210	=	1050.00	473.95	5477.35
3	METTUR.T.P.S	4x210 + 1x600	=	1440.00	810.96	7125.01
4	NORTH CHENNAI T.P.S	3x210 + 2x600	=	1830.00	795.71	9712.91
	TOTAL			4320.00	2080.62	22315.27
ENNORE.T.P.S* shutdown of Units permanently from 31.03.17						
GAS/NAPTHA/DIESEL						
1	BASIN BRIDGE (NAPTHA)	4x30	=	120.00	0.00	0.09
2	KOVIL KALAPPAL (GAS)	1x70+1x37.88	=	107.88	56.43	435.08
3	VALATHUR (GAS) STG1	1x60+1x35	=	95.00	55.85	404.83
4	VALATHUR (GAS) STG2	1 x 60 + 1 x 32	=	92.00	26.77	188.87
5	KUTTALAM (GAS)	1x64+1x37	=	101.00	52.72	306.63
	TOTAL			515.88	191.75	1335.51
WIND / SOLAR						
1	TNEB WIND MILL	17.465	=	17.47	0.00	0.00
2	Solar	0	=	0.00	0.00	0.00
	TOTAL			17.47	0.00	0.00
IPP						
LIGNITE/THERMAL						
1	NEYVELI-I (TN) - NLC	6x50+3x100	=	600.00	258.98	2949.52
2	ST - CMS	250	=	250.00	104.23	860.90
				850.00	363.20	3810.42
GAS/NAP						

1	WIND MILL *	8359.09	=	8359.09	373.64	20982.89
2	SOLAR	2281.27	=	2281.27	334.27	2699.85
3	CO-GENERATION	688.40	=	688.40	592.147	7036.23
4	BIO-MASS & CPP	237.67	=	266.00		
5	Captive Power Projects (CPPs)	1074.80	=	1074.80	0.000	
	RE TOTAL			11594.76	1300.061	30718.98
	TOTAL IPP			14423.72	2223.40	39635.24
	TOTAL TAMIL NADU			21498.97	4872.79	66552.26

PONDICHERRY						
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Jan-19	From 01-04-18 To 31-01-2019
GAS/NAPTHA/DIESEL						
1	KARAIKAL POWER PLANT (GAS)	22.9 + 9.6	=	32.50	0.00	0.00
	TOTAL			32.50	0.00	0.00
	TOTAL PONDICHERRY			32.50	0.00	0.00
IPP UNDER OPEN ACCESS						
GAS/NAPTHA/DIESEL						
1	LANCO KONDAPPILLI POWER LTD. ST2&ST3	233 + 133+2*(233 + 133)	=	1098.00	0.00	0.00
2	SIMHAPURI ENERGY PVT LTD	4 x 150	=	600.00	0.00	99.46
3	MEENAKSHI ENERGY PVT LTD	2 x 150+1X350	=	650.00	0.00	24.44
4	COASTAL ENERGY	2x600	=	1200.00	291.30	498.95
5	TPCIL	2x660	=	1320.00	435.73	8119.18
6	IL&FS	2x600	=	1200.00	393.17	2510.04
7	SGPL	2x660	=	1320.00	393.17	1899.94
	TOTAL			7388.00	1120.20	11252.07
	TOTAL IPP UNDER OPEN ACCESS			7388.00	1120.20	11252.07
CENTRAL SECTOR						
SL.NO.	STATION	EFFECTIVE INSTALLED CAPACITY (MW)			ENERGY GENERATION	
					Jan-19	From 01-04-18 To 31-01-2019
THERMAL						
COAL						
1	RAMAGUNDAM T.P.S (ISGS) - NTPC	3x200+4x500	=	2600	1620.53	15367.09
2	TALCHER STAGE II (ISGS) - NTPC	4x500	=	2000	1315.92	12027.13
3	SIMHADRI STAGE - I - NTPC	2x500	=	1000	554.99	5670.44
4	SIMHADRI STAGE - II - NTPC	2x500	=	1000	599.73	3324.28
5	VALLUR TPS - NTPC	3x500	=	1500	576.89	5896.29
6	NTPL	2X500	=	1000	426.20	5002.79
7	NTPC KUDGI	3x800	=	2400	1015.04	3676.51
LIGNITE						
8	NEYVELI-II (ISGS) - NLC	7x210	=	1470	976.10	8696.16
9	NEYVELI TPS-I (Expansion) (ISGS) - NLC	2x210	=	420	304.92	2187.91
10	NEYVELI TPS-II (Expansion) (ISGS) - NLC	2 x 250	=	500	254.22	706.98
	TOTAL			13890.00	7644.54	62555.59
NUCLEAR						
10	M.A.P.S KALPAKAM (ISGS) - NPC	2x220	=	440.00	1.37	1599.63
11	KAIGA A.P.S (ISGS) - NPC	4x220	=	880.00	507.20	6449.91
12	KUDANKULAM A.P.S (ISGS) - NPC	2x1000	=	2000.00	562.38	7053.64
	TOTAL			3320.00	1070.95	15103.18
SOLAR						
13	RAMANGUNDAM	10.000	=	10.00	1.31	12.73
	TOTAL			10.00	1.31	12.73
WIND						
14	GREEN INFRA	249.900	=	249.90	0.00	0.00
	TOTAL			249.90	0.00	0.00
	TOTAL CENTRAL SECTOR			17469.90	8716.79	77671.49
	GRAND TOTAL			103284.25	34900.46	284775.59

B) DETAILED REPORTS.

I. Detailed State wise breakup of installed capacity (MW)

AGENCY	HYDRO	THERMAL	GAS	DIESEL	WIND/OTHERS	NUCLEAR	TOTAL
ANDHRA PRADESH	1797.60	5010.00	272.00	—	5.43	---	7085.03
TELANGANA	2441.76	3682.50	—	—	1.00	---	6125.26
KARNATAKA	3669.45	5020.00	—	0.00	34.00	---	8723.45
KERALA	2017.40	---	—	159.96	150.16	---	2327.52
TAMILNADU	2221.90	4320.00	515.88	—	17.47	---	7075.25
PONDICHERRY	---	---	32.50	—	---	---	32.50
CENTRAL SECTOR	---	13890.00	0.00	—	249.90	3320.00	17459.90
PRIVATE	1054.66	12040.00	5435.71	32.59	35914.97	---	54477.93
TOTAL	13202.77	43962.50	6256.09	192.55	36372.92	3320.00	103306.84

* The Installed Capacity is reconciled with the data received from states

(II) SALIENT FEATURES OF SYSTEM CONDITIONS.

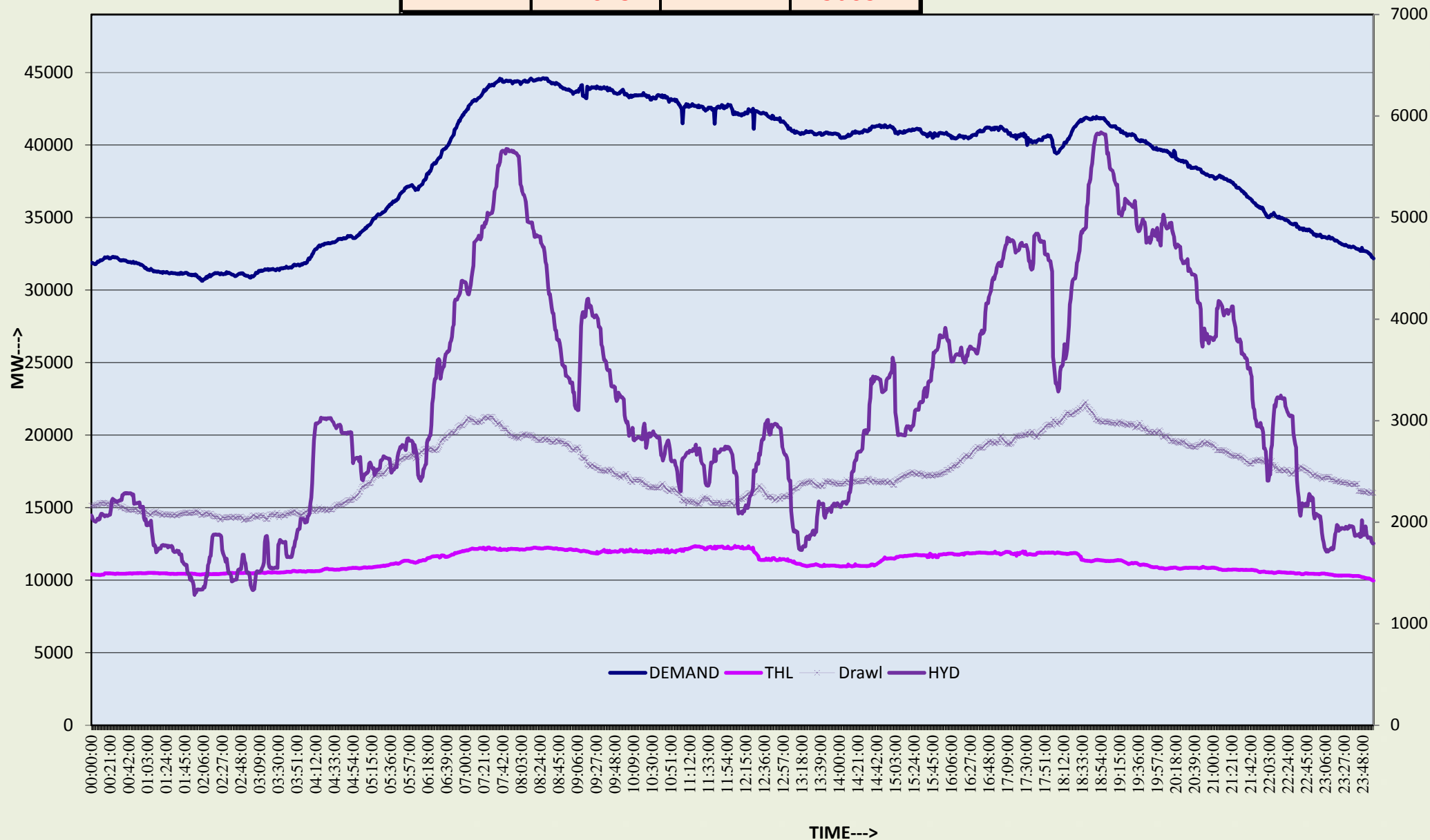
INSTALLED CAPACITY DERATED (MW)	APTRANSCO	TELANGANA	KPTCL	KSEB	TNEB	PONDY	CENTRAL SECTOR	IPP	REGIONAL
Jan-2018	6492	6335	8973	2322	7630	32.5	15770	43540	91095
Jan-2019	7085	6125	8723	2328	7075	32.5	17460	54478	103306
% INCREASE (i)	9.13	-3.31	-2.78	0.22	-7.28	0.00	10.72	25.12	13.40

ENERGY (GROSS) Unrestricted Requirement(MU)	APTRANSCO	TELANGANA	KPTCL	KSEB	TNEB	PONDY	REGIONAL
Jan-2018	5071	5575	6345	2052	8621	195	27859
Jan-2019	4995	5449	6465	2011	8681	218	27819
Energy Availability (MU)							
Jan-2018	5068	5571	6341	2051	8614	194	27838
Jan-2019	4995	5450	6467	2012	8684	218	27826
Shortage(-)/ Surplus(+)							
Jan 2018 (MU) / %	-4 / (-0.07)	-4 / (-0.07)	-5 / (-0.08)	-2 / (-0.09)	-7 / (-0.08)	0 / (-0.09)	-21 / (-0.08)
Jan 2019 (MU) / %	0 / (-0.00)	2 / (-0.03)	2 / (-0.03)	1 / (-0.03)	3 / (-0.03)	0 / (-0.03)	7 / (-0.02)

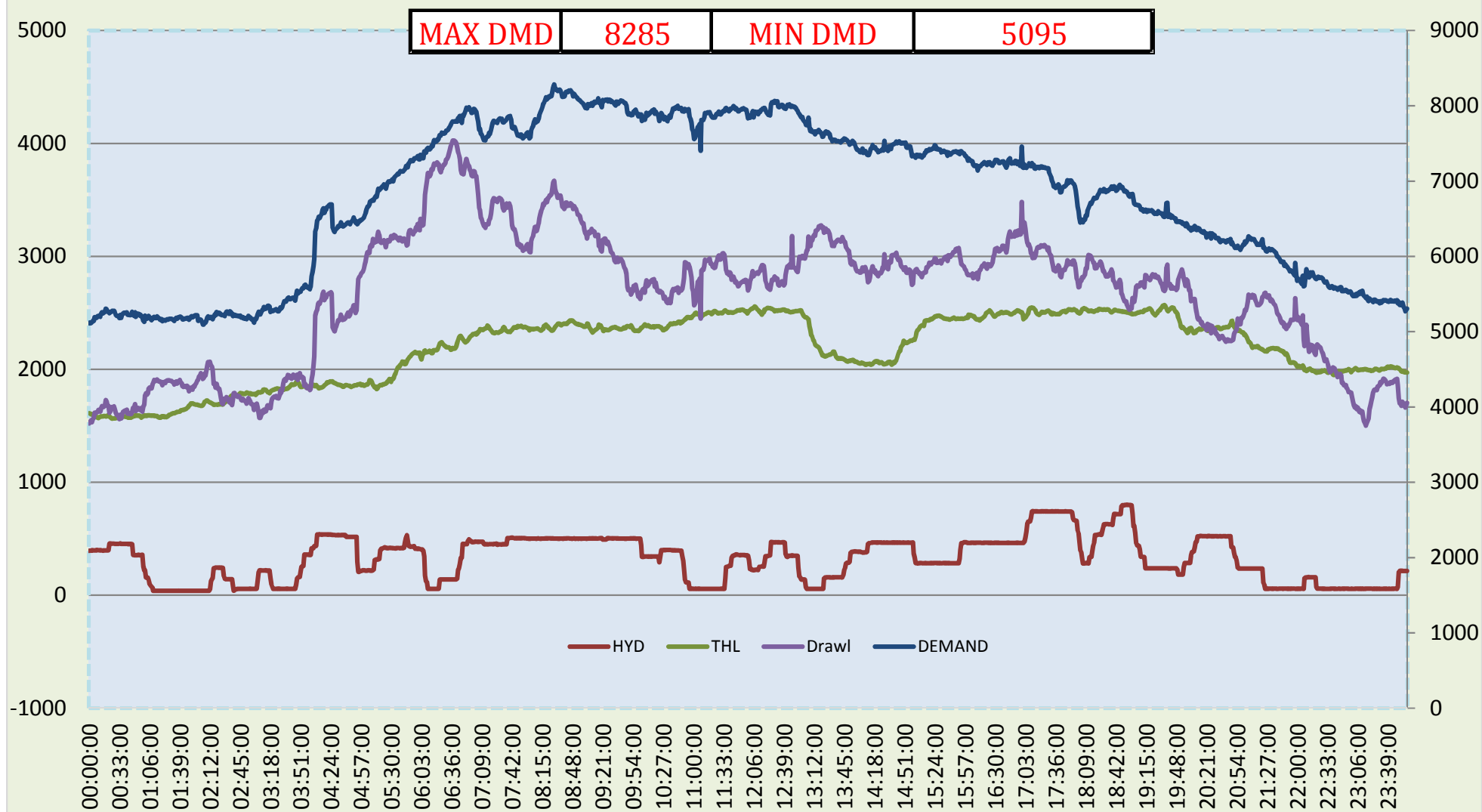
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REGIONAL GENERATION AND DEMAND FOR MINIMUM DEMAND DAY 11-01-2019

MAX DMD	44615	MIN DMD	30637
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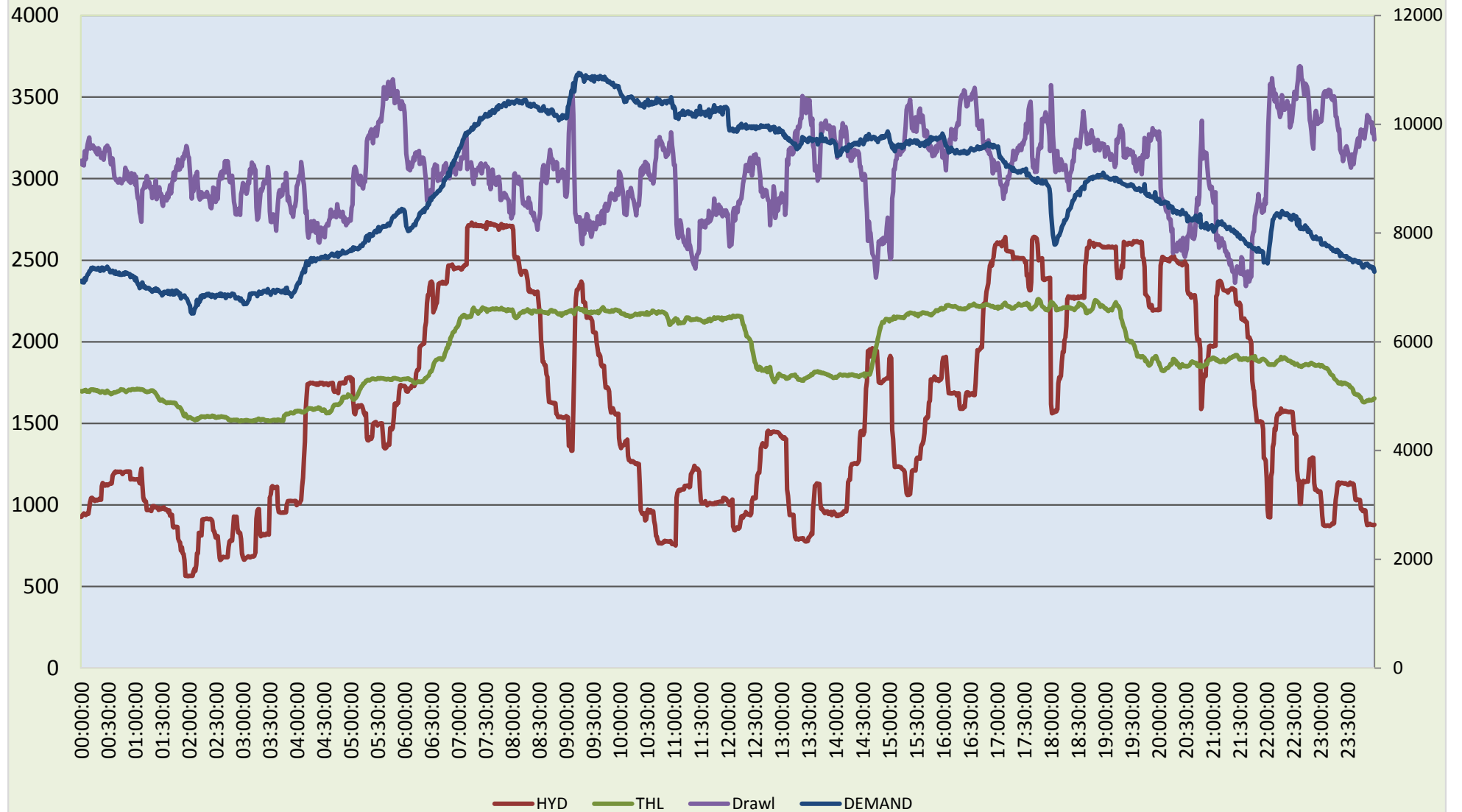


AP DEMAND ON MAXIMUM DEMAND DAY 11-01-2019



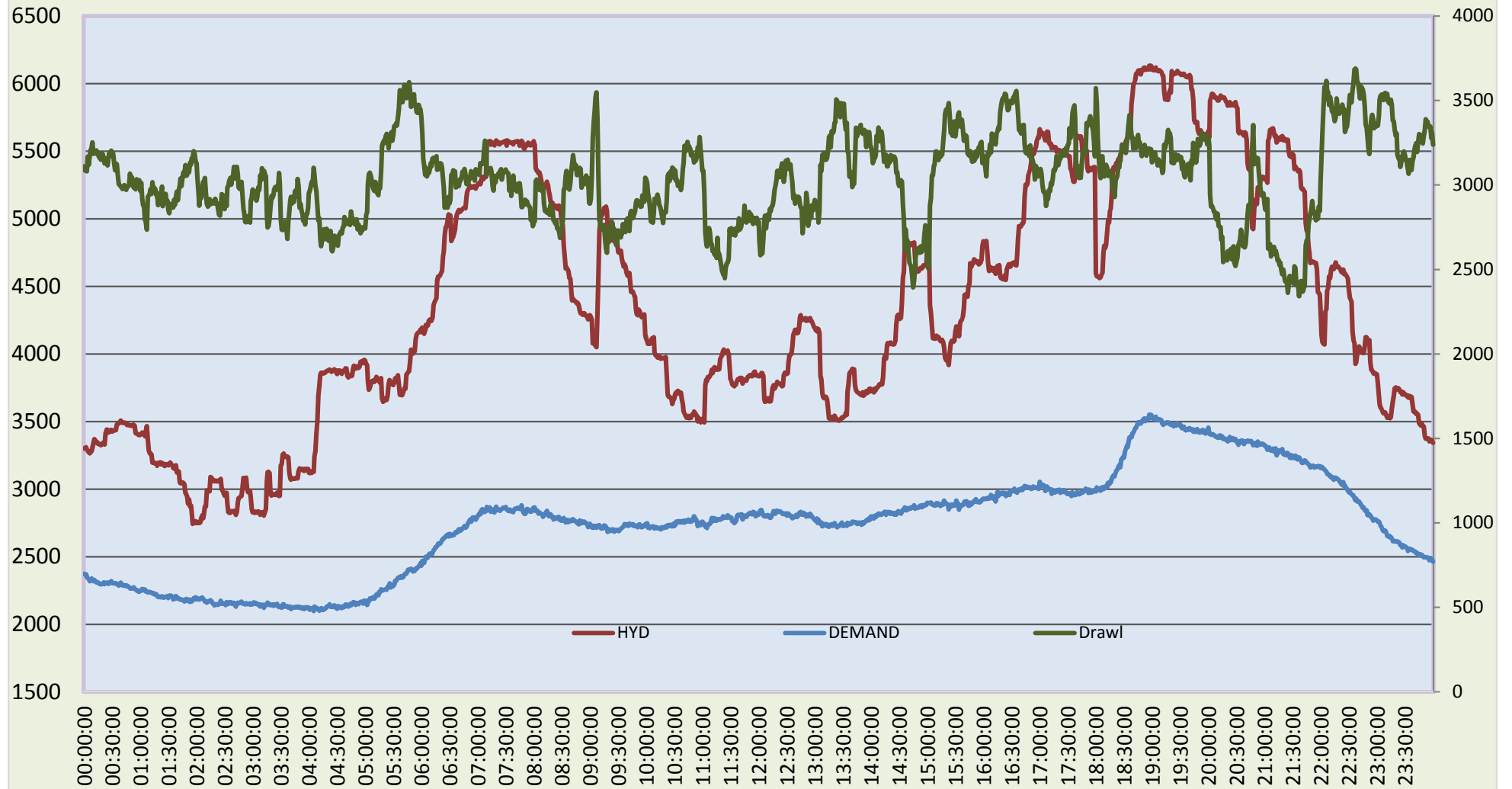
KARNATAKA ON MAXIMUM DEMAND DAY 11-01-2019

MAX DMD	10945	MIN DMD	6520
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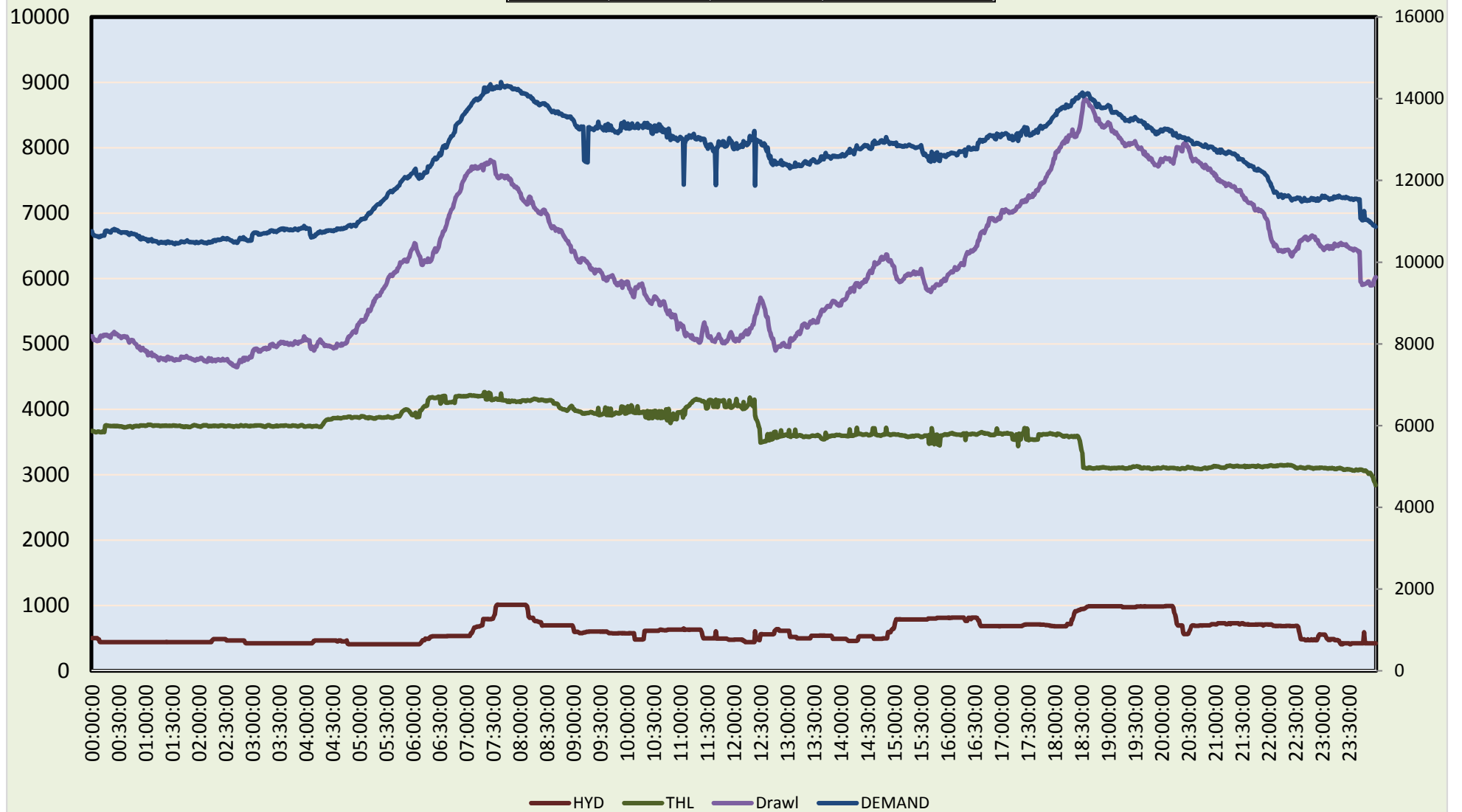
KERALA ON MAXIMUM DEMAND DAY 11-01-2019

MAX DMD	3550	MIN DMD	2099
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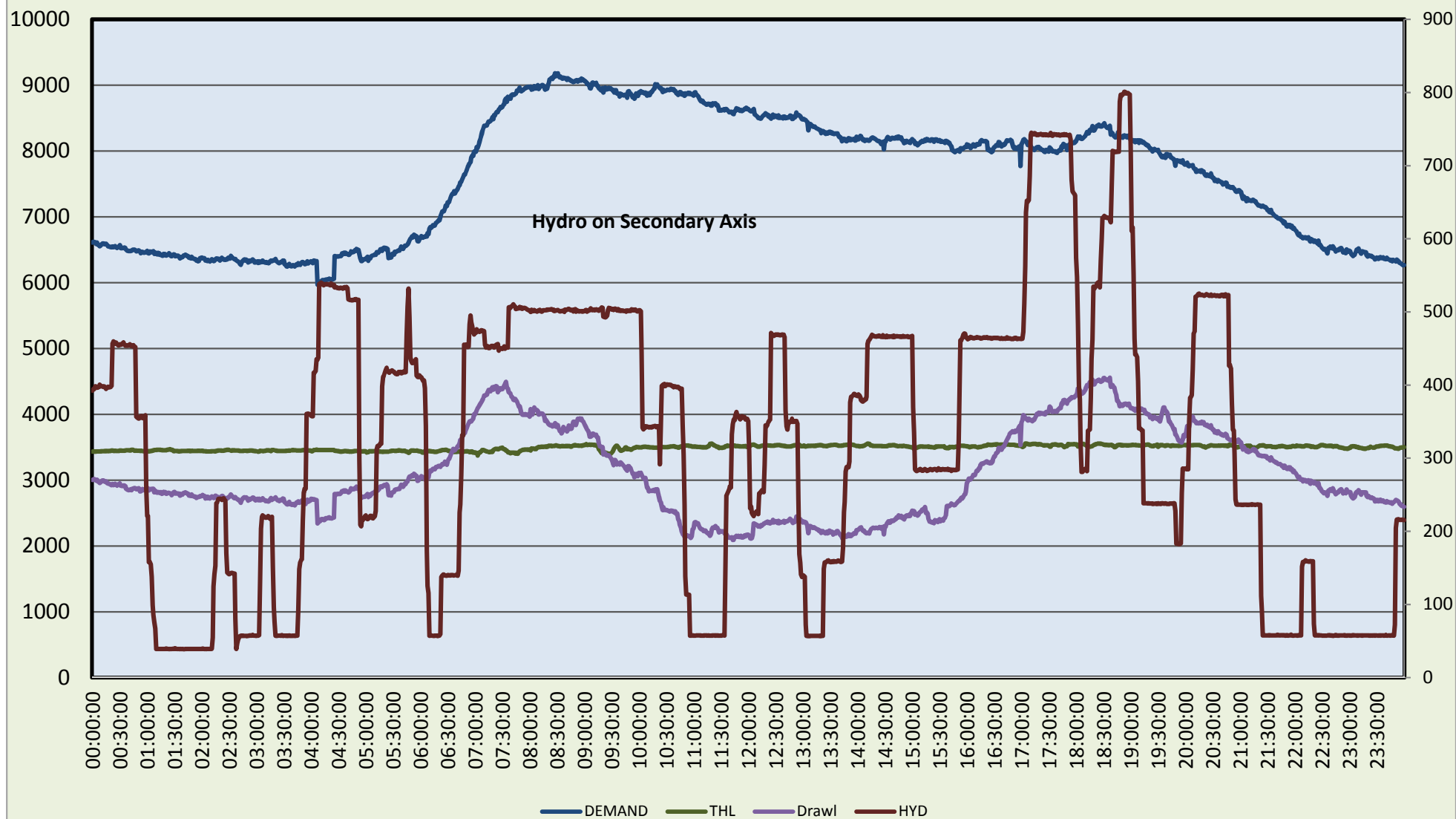
TAMIL NADU ON MAXIMUM DEMAND DAY 11-01-2019

MAX DMD	14410	MIN DMD	10441
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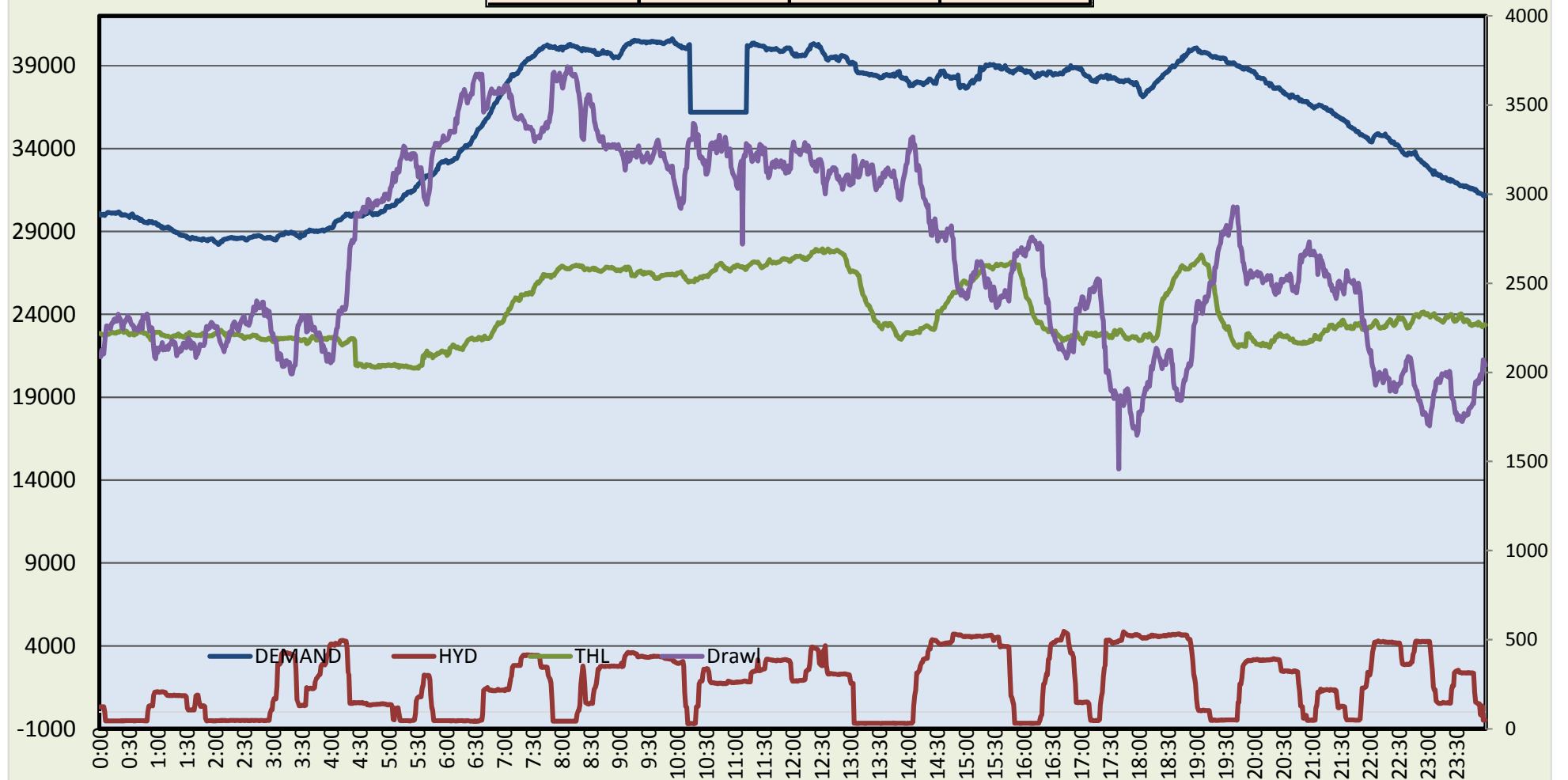
TELANGANA ON MAXIMUM DEMAND DAY 11-01-2019

MAX DMD	9181	MIN DMD	5968
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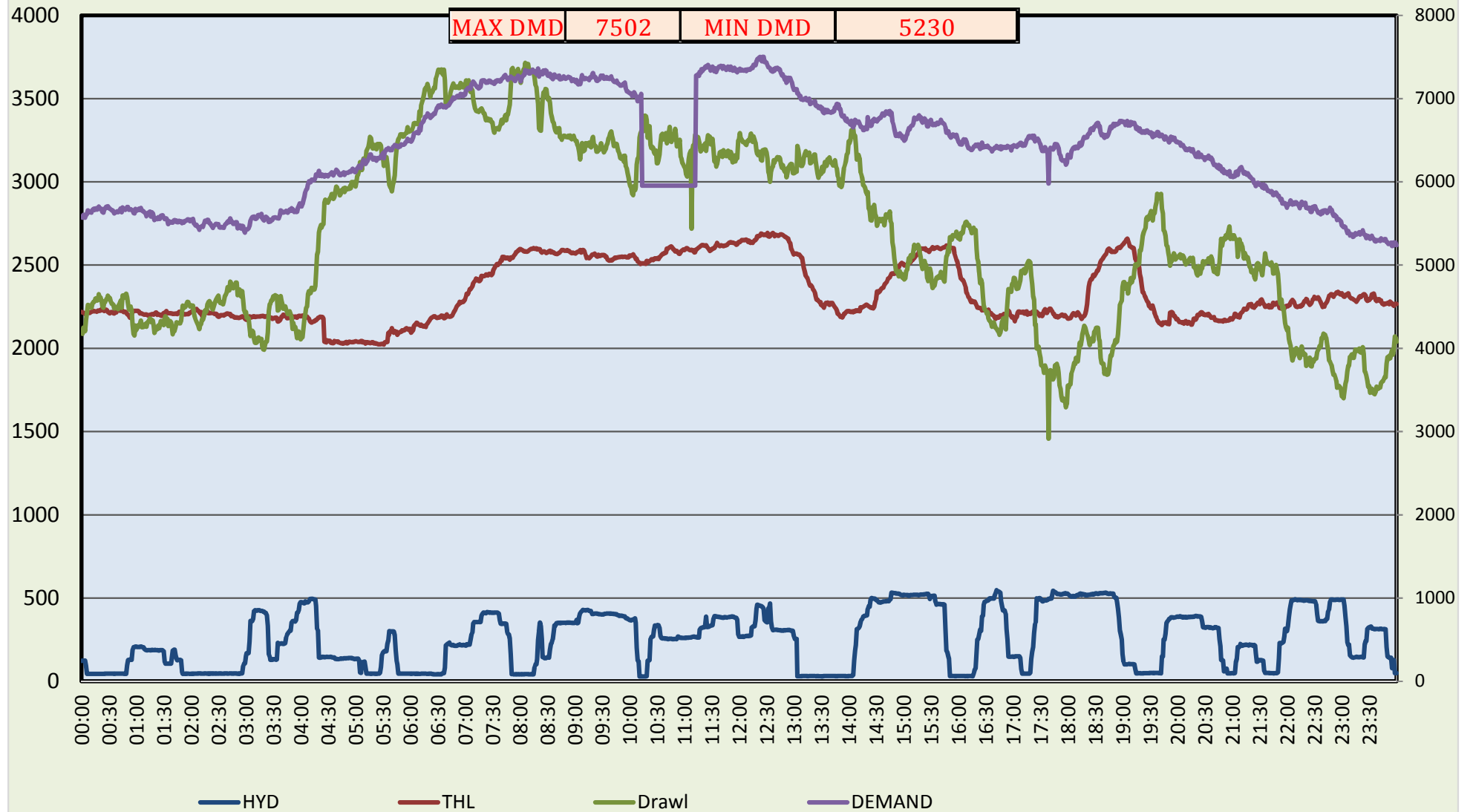


REGIONAL GENERATION AND DEMAND FOR MINIMUM DEMAND DAY 28-01-2019

MAX DMD 40626 MIN DMD 28215

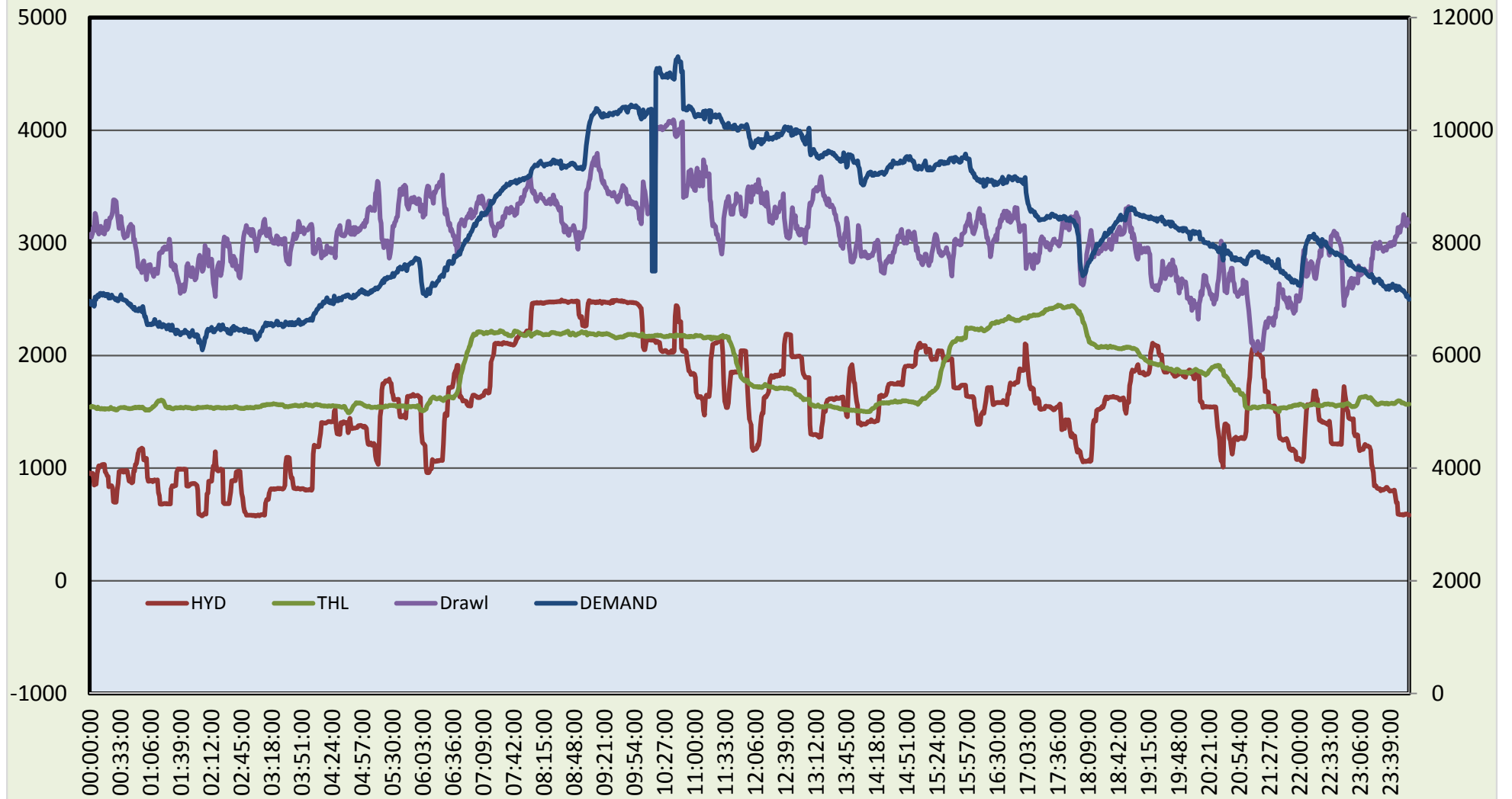


AP DEMAND ON MINIMUM DEMAND DAY 28-01-2019



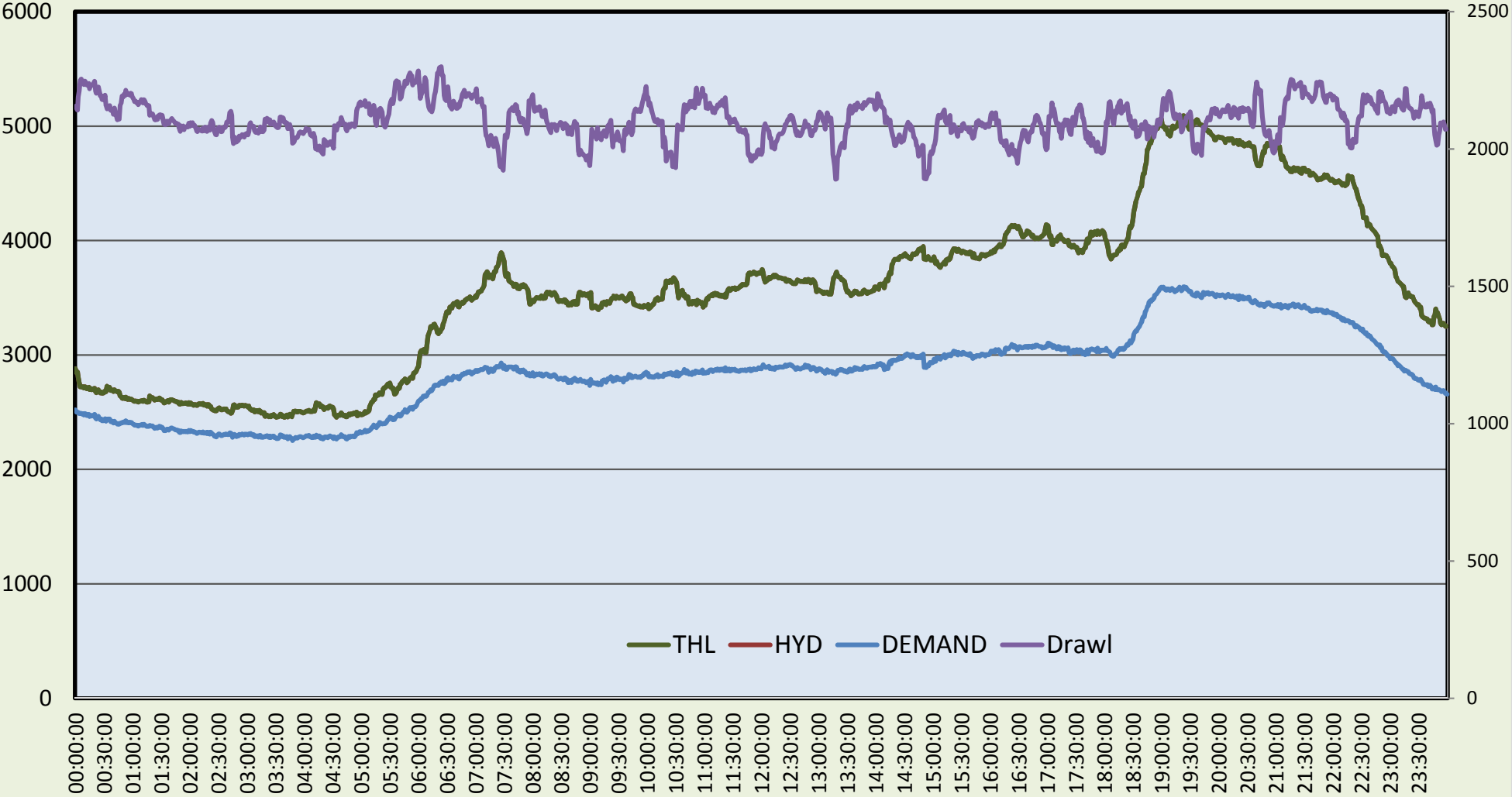
KARNATAKA ON MAXIMUM DEMAND DAY 28-01-2019

MAX DMD	11307	MIN DMD	6099
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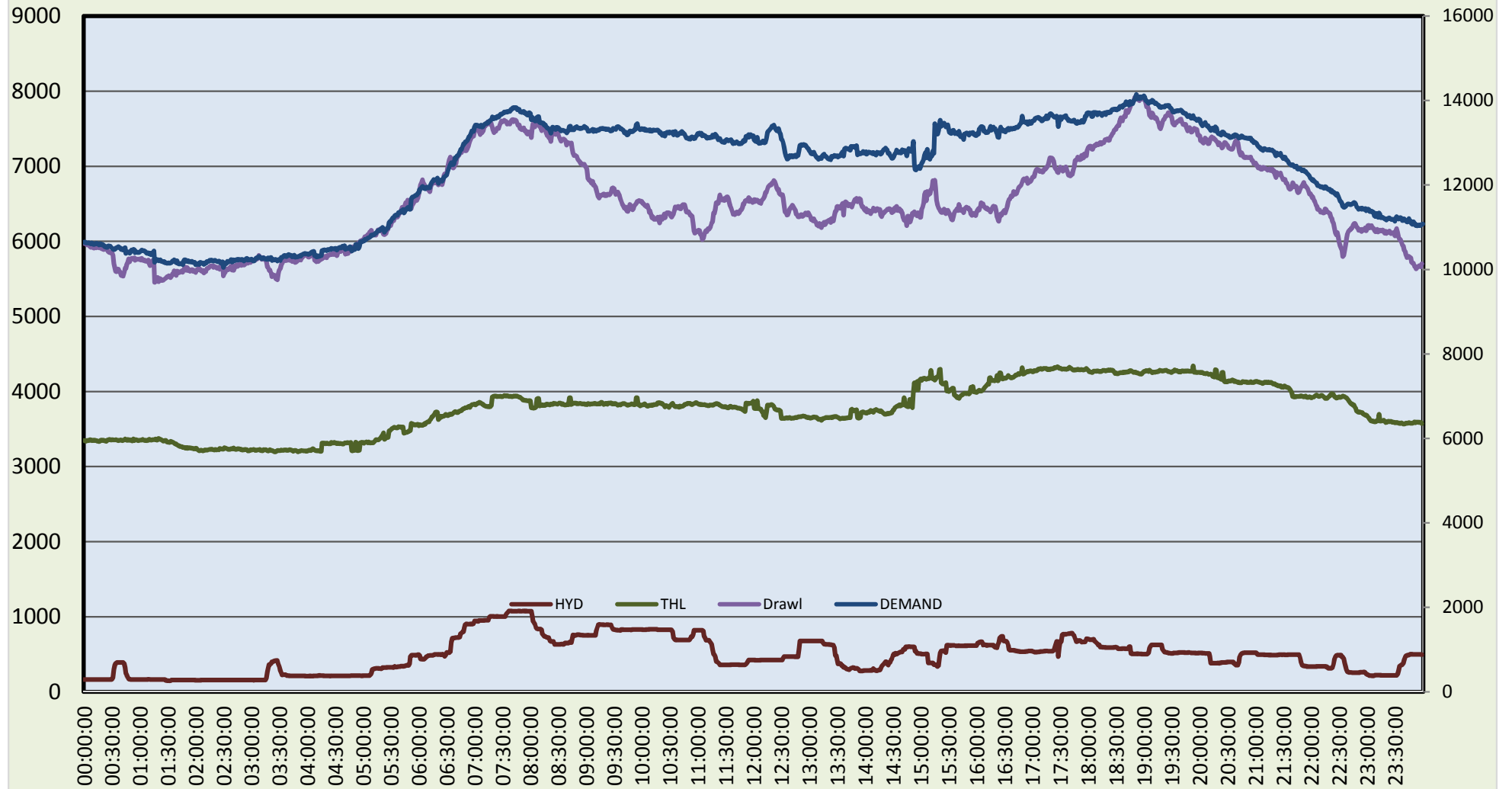
KERALA ON MAXIMUM DEMAND DAY 28-01-2019

MAX DMD	3148	MIN DMD	1969
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TAMIL NADU ON MAXIMUM DEMAND DAY 28-01-2019

MAX DMD	14145	MIN DMD	10048
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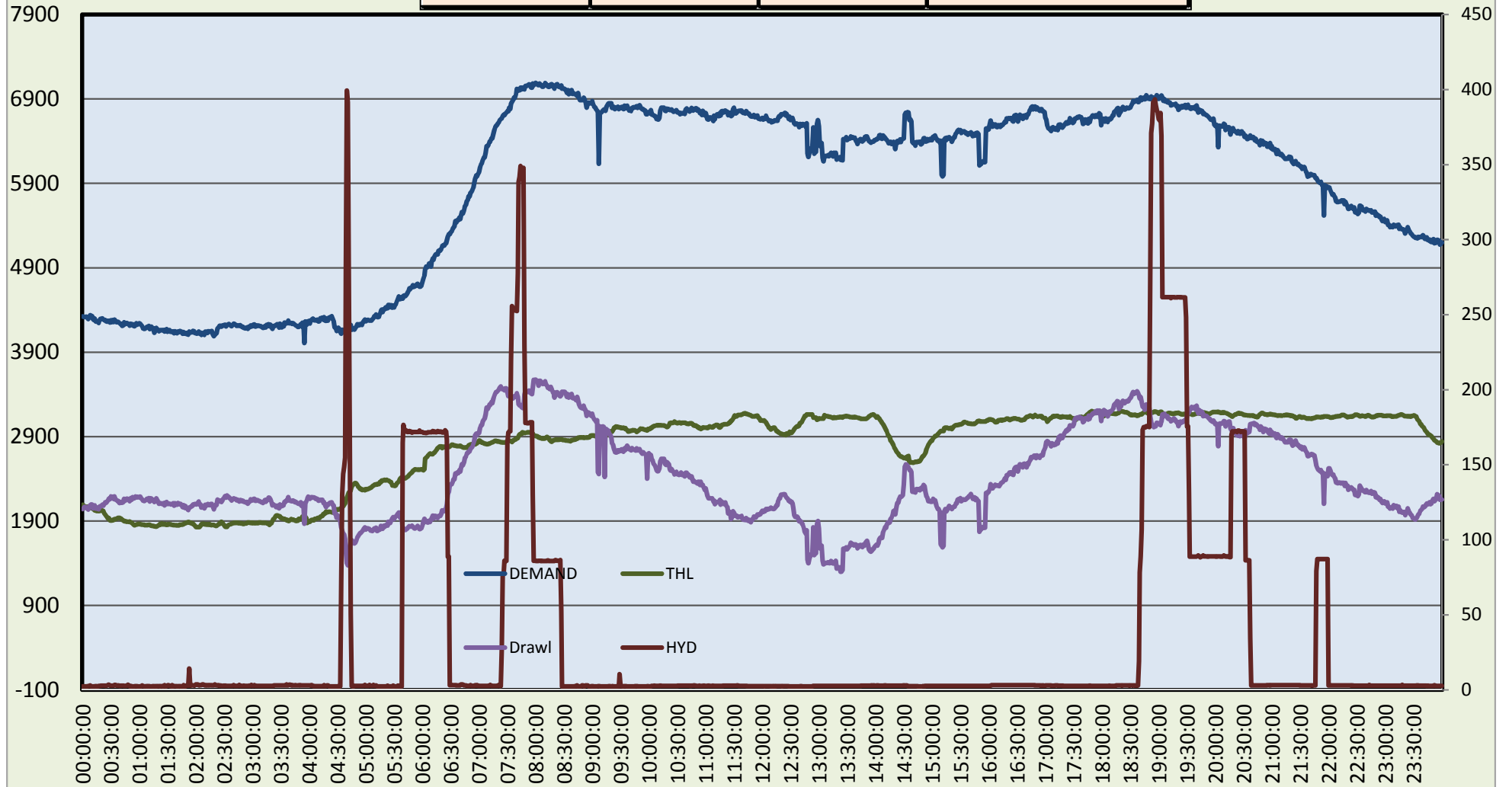
TELANGANA ON MAXIMUM DEMAND DAY 28-01-2019

MAX DMD

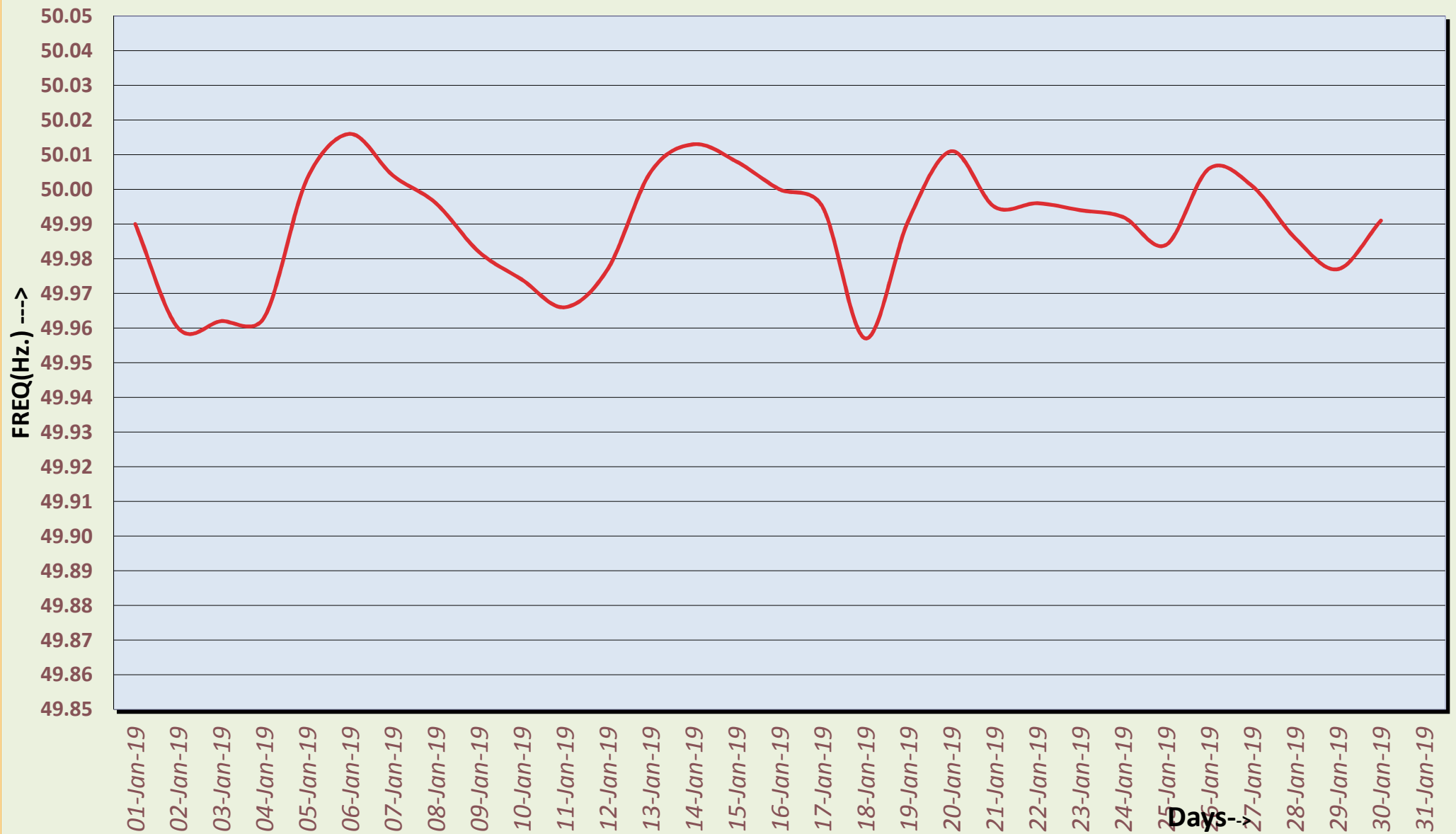
7092

MIN DMD

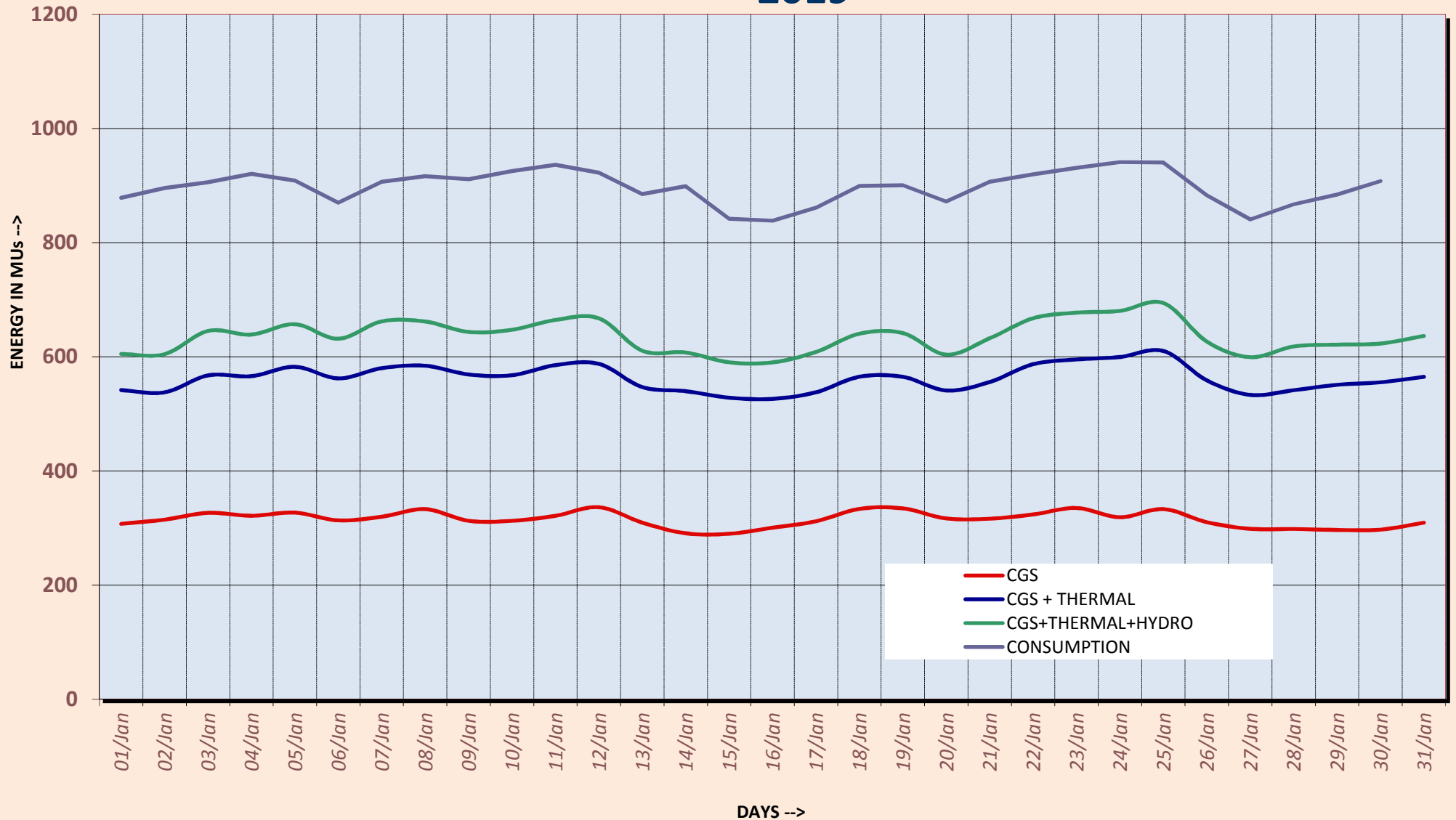
4009



FREQUENCY PROFILE FOR THE MONTH OF January-2019



REGIONAL AVAILABILITY DURING THE MONTH OF January- 2019



MAXIMUM DEMAND FOR THE MONTH OF January-2019

DATE	ANDHRA	TELANGANA	KARNATAKA	KERALA	TAMILNADU	PONDY	S.R
	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND
01-Jan-19	7915	8776	10675	3501	13140	339	42581
02-Jan-19	7800	8887	10468	3423	13812	376	42757
03-Jan-19	7925	9238	10831	3224	14123	374	43212
04-Jan-19	8197	9157	11022	3428	13887	371	43731
05-Jan-19	7981	9323	10892	3388	13617	376	43261
06-Jan-19	7844	8833	10410	3128	13016	327	41045
07-Jan-19	8016	9155	11137	3389	14114	386	43464
08-Jan-19	8059	9101	11066	3180	14133	354	43114
09-Jan-19	8000	9156	10873	3222	14104	371	42886
10-Jan-19	8001	9221	11290	3520	13996	386	43987
11-Jan-19	8218	9247	11783	3537	14213	387	44615
12-Jan-19	8218	8813	11554	3464	13407	382	43733
13-Jan-19	8082	8913	10790	3131	12786	347	41594
14-Jan-19	8069	9253	11448	3572	13452	368	43808
15-Jan-19	7825	8712	11444	3479	11846	329	41567
16-Jan-19	7746	8827	11212	3599	11134	265	41263
17-Jan-19	7851	8972	11496	3464	11368	284	41516
18-Jan-19	8087	9185	11547	3520	13145	348	43698
19-Jan-19	8221	9176	11042	3408	13110	345	43664
20-Jan-19	8102	8981	10336	3017	12473	314	41415
21-Jan-19	8121	8808	11390	3376	13444	355	43314
22-Jan-19	8210	9134	11540	3378	13867	369	42835
23-Jan-19	8246	9210	11224	3412	13966	360	43536
24-Jan-19	8369	9147	11676	3520	14462	359	43949
25-Jan-19	8461	8778	11418	3487	14339	362	43945
26-Jan-19	8180	7797	10584	3295	12940	317	41369
27-Jan-19	7950	7284	10835	3159	12659	324	40667
28-Jan-19	7134	7103	10946	3593	14111	359	40626
29-Jan-19	6934	7782	10980	3704	14209	368	41211
30-Jan-19	7168	8115	11189	3664	14063	365	42255
31-Jan-19	7415	8213	11199	3638	14179	363	42319
AVG	7964	8803	11103	3406	13431	352	42687
MAX	8461	9323	11783	3704	14462	387	44615
MIN	6934	7103	10336	3017	11134	265	40626

CONSUMTION FOR THE MONTH OF January-2019

DATE	ANDHRA	TELANGANA	KARNATAKA	KERALA	TAMILNADU	PONDY	S.R
	CONSMPT	CONSMPT	CONSMPT	CONSMPT	CONSMPT	CONSMPT	CONSMPT
01-Jan-19	155.59	178.61	199.28	68.14	269.97	6.76	878.35
02-Jan-19	159.89	183.13	200.30	65.85	279.19	7.17	895.53
03-Jan-19	163.12	183.61	204.21	59.52	287.91	7.39	905.76
04-Jan-19	165.91	185.97	208.47	63.35	289.40	7.49	920.59
05-Jan-19	165.47	185.84	204.80	63.60	281.33	7.57	908.61
06-Jan-19	162.55	179.27	195.65	57.97	267.75	6.87	870.06
07-Jan-19	163.53	179.85	207.57	63.21	284.99	7.54	906.69
08-Jan-19	163.34	181.96	207.50	59.79	296.45	7.24	916.28
09-Jan-19	161.23	180.45	206.03	59.92	296.10	7.35	911.08
10-Jan-19	164.58	182.18	213.25	64.44	293.20	7.57	925.22
11-Jan-19	165.04	183.47	219.02	66.22	295.17	7.57	936.49
12-Jan-19	162.80	179.31	215.20	66.95	290.21	7.87	922.34
13-Jan-19	161.73	178.70	201.85	60.32	275.08	7.26	884.94
14-Jan-19	159.12	179.68	210.71	66.90	275.06	7.41	898.88
15-Jan-19	151.40	171.56	204.22	67.87	240.28	6.45	841.78
16-Jan-19	151.21	174.04	212.19	67.05	227.88	5.96	838.33
17-Jan-19	157.02	178.17	215.53	66.32	238.11	6.04	861.19
18-Jan-19	163.42	182.07	215.55	66.37	265.07	6.71	899.19
19-Jan-19	165.18	182.54	211.67	66.11	267.98	7.00	900.48
20-Jan-19	163.41	181.24	197.41	58.76	264.57	6.47	871.86
21-Jan-19	165.18	181.90	211.87	62.74	278.21	6.88	906.78
22-Jan-19	166.57	184.42	216.20	63.93	281.63	7.01	919.76
23-Jan-19	167.52	185.78	215.98	65.13	289.78	6.97	931.16
24-Jan-19	169.67	184.02	218.67	66.62	294.93	7.08	940.99
25-Jan-19	169.71	176.93	219.37	68.26	298.92	7.15	940.34
26-Jan-19	168.55	157.67	202.82	64.58	283.15	6.36	883.13
27-Jan-19	162.71	140.08	197.30	61.19	272.93	6.50	840.71
28-Jan-19	149.23	141.66	205.33	68.84	295.04	7.05	867.15
29-Jan-19	148.06	156.99	204.49	70.10	297.22	7.28	884.14
30-Jan-19	151.54	162.56	211.05	70.93	304.74	7.15	907.97
31-Jan-19	150.46	166.83	213.02	70.84	301.52	7.18	909.85
AVG	161.12	175.82	208.60	64.90	280.12	7.04	897.60
MAX	169.71	185.97	219.37	70.93	304.74	7.87	940.99
MIN	148.06	140.08	195.65	57.97	227.88	5.96	838.33
TOTAL	4994.74	5450.49	6466.51	2011.82	8683.77	218.30	27825.63

NET DRAWAL SCHEDULE AND ACTUAL DRAWAL FOR THE MONTH OF January-2019

	ANDHRA PRADESH		TELANGANA		KARNATAKA		KERALA		TAMILNADU		PONDICHERRY	
DATE	Net Schd	Act. Drawal	Net Schd	Act. Drawal	Net Schd	Act. Drawal	Net Schd	Act. Drawal	Net Schd	Act. Drawal	Net Schd	Act. Drawal
01-Jan-19	56.11	54.77	86.05	86.49	67.22	66.14	59.75	59.88	128.80	128.43	7.05	7.17
02-Jan-19	56.20	56.19	95.02	96.16	68.57	68.12	56.95	57.17	138.34	137.42	7.52	7.39
03-Jan-19	64.89	65.32	79.89	80.17	73.57	72.81	52.92	52.44	136.09	135.95	7.50	7.49
04-Jan-19	64.47	64.39	74.66	73.84	72.88	72.64	53.10	53.51	136.20	135.94	7.77	7.57
05-Jan-19	66.04	66.51	71.82	72.51	71.01	71.58	53.90	53.78	126.71	127.52	7.65	6.87
06-Jan-19	64.83	65.31	68.42	69.02	70.52	70.61	48.63	48.72	122.50	122.32	7.14	7.54
07-Jan-19	66.78	67.32	72.00	71.70	68.99	69.05	50.34	50.33	131.62	132.66	7.77	7.24
08-Jan-19	80.72	81.02	77.35	77.69	72.73	72.48	48.53	48.54	138.00	138.60	7.32	7.35
09-Jan-19	79.11	79.25	76.35	76.13	70.59	70.80	48.54	48.57	136.50	135.59	7.50	7.57
10-Jan-19	79.46	79.39	67.62	68.32	71.36	71.31	51.46	51.35	137.26	137.55	7.59	7.57
11-Jan-19	63.81	64.02	73.69	74.28	73.32	72.86	52.58	52.66	148.34	149.26	7.77	7.87
12-Jan-19	61.48	61.65	68.58	69.55	77.00	76.53	53.79	53.94	150.45	152.05	7.86	7.26
13-Jan-19	64.60	65.38	73.73	74.39	69.26	69.61	51.55	51.56	137.05	138.43	7.37	7.41
14-Jan-19	53.43	53.48	76.31	77.34	72.25	72.28	54.28	54.83	135.69	135.36	7.50	6.45
15-Jan-19	54.45	54.72	65.65	65.97	71.78	71.45	57.05	57.48	114.87	114.13	6.72	5.96
16-Jan-19	60.47	60.32	66.63	66.41	79.20	79.09	56.74	56.94	114.06	112.51	6.38	6.04
17-Jan-19	65.76	65.86	71.06	70.70	80.25	80.51	55.11	55.35	121.72	121.34	6.53	6.71
18-Jan-19	67.70	67.98	77.75	77.94	77.90	77.33	54.53	54.71	137.50	138.01	7.25	7.00
19-Jan-19	69.25	69.51	72.76	73.10	78.95	78.53	53.82	54.51	144.69	145.61	7.52	6.47
20-Jan-19	67.68	67.66	70.43	70.44	72.95	72.60	49.56	50.08	139.94	140.24	6.71	6.88
21-Jan-19	65.47	65.66	70.99	71.41	76.71	76.73	46.08	46.76	146.39	146.95	7.14	7.01
22-Jan-19	63.54	63.92	72.38	73.13	84.21	84.74	47.14	47.90	145.54	145.01	7.30	6.97
23-Jan-19	63.79	64.98	89.15	89.42	87.55	87.30	49.15	50.17	142.43	142.35	7.23	7.08
24-Jan-19	62.51	63.46	77.09	77.17	85.49	85.52	49.26	50.40	147.23	147.65	7.33	7.15
25-Jan-19	64.84	65.91	73.98	73.65	85.40	85.33	51.64	52.59	159.66	160.67	7.16	6.36
26-Jan-19	71.48	72.68	79.01	78.78	83.40	83.40	52.69	53.51	152.47	152.42	6.92	6.50
27-Jan-19	68.37	69.71	69.76	69.62	77.87	77.92	47.85	48.88	148.61	149.09	6.73	7.05
28-Jan-19	63.28	64.14	57.79	58.07	73.27	73.54	49.70	50.43	156.77	156.54	7.20	7.28
29-Jan-19	62.27	61.98	54.21	53.76	73.39	73.03	54.06	54.76	151.15	150.20	7.43	7.15
30-Jan-19	55.21	55.12	55.69	55.60	76.09	75.59	55.16	55.96	147.96	146.57	7.37	7.18
31-Jan-19	51.31	51.76	62.55	62.40	72.52	71.88	53.62	54.57	148.63	148.67	7.45	6.74
Total	1999.31	2009.37	2248.37	2255.16	2336.20	2331.31	1619.48	1632.28	4323.17	4325.04	225.68	218.28

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(एक भारत सरकार का उद्यम)

POWER SYSTEM OPERATION CORPORATION LIMITED

(A Govt. of India Enterprise)

दक्षिण क्षेत्रीय लोड डिस्पैच केन्द्र /SOUTHERN REGIONAL LOAD DESPATCH CENTRE

29, रेस कोर्स क्रॉस रोड, बेंगलूर - 560 009. / 29, RACE COURSE CROSS ROAD, BANGALORE - 560 009.

Phone - 080 2225004, Fax - 080 22268725, E Mail - osmail@srlhc.org, Website - www.srlhc.org,
www.srlhc.in