



TAMILNADU NEWSPRINT Biomethanation Plant

AND PAPERS LTD

EFTP/F-06

DATE: 26.12.07

Hourly & Shiftwise Process Analysis Data

Time	pH										Data Scanner (Modbus RTU)					
	Flow M ³ /hr		Raw. Eff.		NT. Out pH		CLA Out		BT		RB outlet		R1 Feed		R2 Feed	
	Raw. Eff.												Flow M ³ /hr	Temp. °C	Flow M ³ /hr	Temp. °C
06.30	512		4.43		6.7		6.52		6.81		7.54		292	32.5	296	32.5
08.30	510		4.40		6.6		6.70		6.74		7.53		312	32.5	307	32.5
10.30	491		4.45		6.5		6.59		6.62		7.50		304	33.0	305	33.0
12.30	505		4.39		6.6		6.65		6.74		7.48		309	33.0	302	33.0
14.30	500		4.41		6.5		6.51		6.71		7.49		310	33.0	312	33.0
16.30	510		4.42		6.6		6.67		6.75		7.51		314	33.0	317	33.0
18.30	511		4.31		6.6		6.61		6.77		7.50		310	33.0	315	33.0
20.30	503		4.29		6.5		6.55		6.75		7.47		314	33.0	312	33.0
22.30	510		4.27		6.8		6.64		6.82		7.50		319	32.5	317	32.5
00.30	504		4.30		6.9		6.58		6.77		7.46		312	32.5	313	32.5
02.30	513		4.22		6.7		6.62		6.89		7.52		309	32.0	311	32.0
04.30	500		4.25		6.8		6.59		6.81		7.47		304	32.0	305	32.0
Average			4.34				6.60		6.70		7.50					32.50

SHIFT	COD mg / lit								VOLATILE FATTY ACIDS meq / lit								ALKAL		LINITY meq / lit						TOTAL SUSPENDED SOLIDS mg / lit									
	Raw Eff		Clar.Oil		B.T.Oil		R.A.Oil		R.B.Oil		Raw Eff		Clar.Oil		B.T.Oil		R.A.Oil		R.B.Oil		Raw Eff		Clar.Oil		Decant. Oil		Cake Cy%		Ash %		R.A.Oil		R.B.Oil	
A	3040	2860	2540	236	244	4642	4648	2816	3.70	269	-ve	-ve	-ve	6.00	33.00	33.00	760	590	47900	210	1928	-	-	-	-	-	-	-	960	910				
B	4080	3760	3440	248	248	4642	3833	3019	2.48	269	-ve	-ve	-ve	4.0	34.0	33.0	710	550	47200	240	1914	-	-	-	-	-	-	-	920	950				
C	4880	4000	3520	268	252	5056	4238	3218	3.67	266	-ve	-ve	-ve	6.00	35.0	30.0	740	560	47100	220	1890	-	-	-	-	-	-	-	860	920				
Average	4000	3540	3160	250	248	4648	4239	3017	3.35	268	-ve	-ve	-ve	5.33	34.0	34.0	730	560	47600	223	1910	-	-	-	-	-	-	-	913	926				

Cumulative M³ Raw -

2569.00

GAS -

4403.600

Kiln -

461800

Boiler -

Flaired - 1800

Lime -

182.224

Tonnes -

Raw Effluent	:	14000	m ³
Gas Production	:	6300	m ³
Gas to Kiln	:	6300	m ³
Gas to Boiler	:	-	
Flaired	:	-	

Bagasse CLA I/L Flow: 7705 m³/20779

SPF	:	0.42	-
HLR	:	100.0	%
OLR	:	83.33	%

RECYCLE: A

MOL	11810-11761	96	gpl
CAO	78.60	79.77	
Time	3.851	7.590	T

Raw Effluent / day	: 12350 m ³
Gas Production / day	: 16700
Gas to Kiln / day	: 16700
Gas to Boiler / day	: —
Gas to Flaired / day	: —

INLET COD	mg / lit
OUTLET COD	mg / lit
COD REDUCTION	%
OLR = 75.90	%
HLR = 102.91	%
GPF = 0.41	M ³ /Kg COD Reduced

D. Rander
CHEMIST

WD/ES

Raw Effluent	: 4,500	m ³
Gas Production	: 5400	m ³
Gas to Kiln	: 5400	m ³
Gas to Boiler	: -	
Flaired	: -	

Bagasse CLA I/L Flow: 5900m³

GPF	: 0.35	-
HLR	: 108.75	%
OLR	: 85.18	%

RECYCLE: B

MOL	:	11761-11740 = 20	m ³
CAO	:	87.92	gpl
Line	:	1.846	T

CHEMIST
D. R. R. R.

MD / ES

Raw Effluent	:	460	m ³
Gas Production	:	600	m ³
Gas to Kiln	:	500	m ³
Gas to Boiler	:	-	
Flaired	:	-	

Bagasse CLA I/L Flow: 774 313

GPF	:	0.48	-
HLR	:	100.00	%
OLR	:	59.58	%

RECYCLE:

MOL	:	11740-1714=26	m ³
CAO	:	7280	gpl
Lime	:	1893	T

CHEMIST

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