

TAMILNADU NEWSPRINT AND PAPERS LTD

Plant

EFTPL / F - 06

DATE: 06.12.07

Hourly & Shiftwise Process Analysis Data

Time	Flow M ³ /hr		pH				Data Scanner (Modbus RTU)					
	Raw Eff.	Raw Eff.	NT. Out pH	CLA. Out	BT	RA outlet	RB outlet	R1 Feed	R2 Feed	R1 Feed	R2 Feed	Biogas
06.30	505	4.22	6.7	6.51	6.67	7.51	7.50	317	315	32	32	670
08.30	515	4.24	6.5	6.62	6.70	7.54	7.52	319	321	33	33	775
10.30	500	4.24	6.6	6.68	6.73	7.50	7.55	316	314	33.5	33.5	846
12.30	504	4.26	6.6	6.58	6.75	7.55	7.57	312	315	33.5	33.5	854
14.30	504	4.27	6.6	6.74	6.82	7.56	7.53	315	312	33.5	33.5	821
16.30	510	4.23	6.7	6.68	6.85	7.54	7.51	319	320	34.0	34.0	830
18.30	515	4.21	6.8	6.69	6.80	7.51	7.50	320	318	33.0	33.0	834
20.30	504	4.22	6.5	6.66	6.75	7.54	7.51	317	316	33.0	33.0	798
22.30	505	4.20	6.6	6.52	6.69	7.50	7.46	320	321	32.5	32.5	803
00.30	507	4.27	6.5	6.65	6.72	7.54	7.52	312	315	32.0	32.0	815
02.30	500	4.25	6.6	6.52	6.75	7.58	7.55	319	320	32.0	32.0	854
04.30	503	4.23	6.7	6.59	6.81	7.56	7.53	320	318	32.0	32.0	853
Average		4.24		6.62	6.75	7.54	7.52			32.83		

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	Raw Eff	B.T.Oil	R.A.Oil	R.B.Oil	Raw Eff	Clar.Oil	Decanti. IL	Decanti. OIL	Cake Cy%	Ash %	R.A.Oil	R.B.Oil		
A	4960	3680	3060	556	532	46.6	38.29	28.09	6.66	5.64	-ve	-ve	12.0	39.0	40.0	720	580	47400	250	18.84	-	1130	1090			
B	4680	3480	2960	524	512	40.59	34.22	26.14	5.69	4.66	-ve	-ve	6.00	35.0	37.0	680	540	48200	230	18.92	-	1080	1160			
C	4880	3960	3160	556	600	42.56	36.25	26.14	6.69	5.68	-ve	-ve	6.0	36.0	36.0	710	560	47900	220	18.72	-	1120	1090			
Average	4840	3707	3053	545	548	43.25	36.23	26.79	6.35	5.37	-ve	-ve	8.0	37.33	37.66	703	560	47633	233	18.62	-	1110	1113			

Cumulative M³: Raw : GAS

Cumulative M³ : Raw -

63000

GAS -

89500

Kiln -

88500

Boiler -

1000

Flaired -

1000

Lime -

1000

Tonnes -

1113

Raw Effluent : 4000 m³
 Gas Production : 6200 m³
 Gas to Kiln : 6200 m³
 Gas to Boiler : -
 Flaired : -

Bagasse CLA I/L Flow : 7070 m³

GPF : 0.49
 HLR : 100.00 %
 OLR : 76.66 %

RECYCLE :

MOL : 9934 - 9908 = 26 m³
 CAO : 87.92 gpl
 Lime : 2.285 T

* Sludge loaded to Buffer Tank
 07.00 - 11.00 hrs (4.0 hrs)

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 CHEMIST

Raw Effluent : 3600 m³
 Gas Production : 6400 m³
 Gas to Kiln : 6400 m³
 Gas to Boiler : -
 Flaired : -

Bagasse CLA I/L Flow : 7360 m³

GPF : 0.33
 HLR : 90.00 %
 OLR : 65.25 %

RECYCLE : A

MOL : 9970 - 9934 = 36 m³
 CAO : 86.92 gpl
 Lime : 3.129 T

* Sludge loaded to D.T 14.30 - 18.30 hrs

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Raw Effluent : 3500 m³
 Gas Production : 6700 m³
 Gas to Kiln : 6700 m³
 Gas to Boiler : -
 Flaired : -

Bagasse CLA I/L Flow : 6397 / 20827 m³

GPF : 0.49
 HLR : 100.0 %
 OLR : 82.50 %

RECYCLE : B

MOL : 9995 - 9930 = 25 m³
 CAO : 84.72 gpl
 Lime : 2.118 T

Raw Effluent / day : 11100
 Gas Production / day : 19300
 Gas to Kiln / day : 19300
 Gas to Boiler / day : -
 Gas to Flaired / day : -

INLET COD : 3707 mg / lit
 OUTLET COD : 547 mg / lit
 COD REDUCTION : 85.24 %
 OLR : 71.44 %
 HLR : 92.50 %
 GPF : 0.55 M³/Kg COD Reduced

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 CHEMIST

SE / DM

* Sludge loaded to B.T : 22.30 - 2.30 hrs



Hourly

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