

TIME	F. OIL STOCK		FEED (MT / HR)		PROD. LIME MT/HR	FO PUMP PRES kg/cm <sup>2</sup>	OIL PRES kg/cm <sup>2</sup>	STEAM PRES kg/cm <sup>2</sup>	OIL TEMP		OIL CON V/V OPEN(%)	OIL FLOW LPM	TEMPERATURES (°C)					DRAUGHT (MMWC)			KILN SPEED		DAMPER POSITION (%)			FLUE GAS		Dust Emission m/cum	Bio gas cum	LIME PURITY %	MUD WASHER II		
	MAIN TANK	DAY TANK	LIME STONE	LIME SLUDGE					HTR IN °C	HTR OUT °C			BURNING ZONE	BACK END	ESP IN	ESP OUT	BURNT LIME	KILN	ESP	ID FAN	%	RPM	PRY FAN	ID FAN	BLEED AIR FAN	O <sub>2</sub> %	CO %				Tq	R/M LOAD	U/F
06:30	50.2	74	4.5	13.5	6.0	6.0	3.1	4.4	88	109	9	750	1145	205	196	173	50	-	-15	-27	76	1.07	63	67	-	2.8	-	-	680	66.7	-	2.3	80
08:30	50.2	66	4.6	13.8	9.5	6.0	3.4	4.7	111	119	12	850	1135	206	191	174	95	-	-11	-22	76	1.07	63	63	-	.8	-	-	750	72.2	-	2.3	85
10:30	49.8	52	5.0	14.0	10.0	6.0	3.3	4.6	108	121	10	850	1130	195	173	164	96	-	-14	-25	77	1.08	63	66	-	1.2	-	-	725	73.0	-	2.3	-
12:30	52.5	68	5.0	14.2	9.0	6.0	3.3	4.6	101	118	10	850	1110	202	170	163	100	-	-13	-22	77	1.08	63	68	-	1.0	-	-	720	75.6	-	2.3	85
14:30	54.3	70	5.0	14.0	8.5	6.0	3.6	4.9	89	109	12	875	1120	195	171	162	92	-	-21	-37	77	1.08	63	78	-	2.1	-	-	709	-	-	2.3	-
16:30	57.3	53	5.0	13.8	8.7	6.0	3.5	4.8	99	118	11	850	1076	210	180	160	102	-	-12	-21	77	1.08	63	61	0.0	.6	-	-	608	75.1	-	2.2	-
18:30	58.1	47	5.0	14.0	8.8	6.0	3.4	5.7	99	120	12	825	1112	196	176	162	90	-	-12	-22	77	1.08	63	60	0.0	1.0	-	-	630	74.0	-	2.2	80
20:30	57.7	50	5.0	13.6	8.1	6.0	3.6	4.9	95	119	13	860	1124	204	178	164	86	-	-13	-25	77	1.08	63	64	0.0	.7	-	-	600	73.3	-	2.2	-
22:30	57.4	49	5.0	14.2	8.4	6.0	3.7	5.0	95	119	14	910	1090	196	174	161	97	-	-16	-31	77	1.08	63	68	0.0	2.1	-	-	427	71.6	-	2.2	-
00:30	57.3	51	5.0	13.5	9.0	6.0	3.9	5.2	104	123	15	950	1100	195	170	158	95	-	-17	-37	77	1.08	63	70	0.0	2.4	-	-	450	-	-	2.2	-
02:30	57.1	48	4.9	12.1	7.6	6	3.3	4.5	95	119	12	800	1070	210	189	169	103	-	-14	-28	77	1.08	63	64	-	2.0	-	-	566	74.5	-	2.2	90
04:30	56.8	52	4.8	12.6	7.1	6	3.2	5.0	90	116	13	928	1080	200	183	165	92	-	-14	-27	76	1.07	63	65	-	1.3	-	-	507	75.4	-	2.2	90
06:30	56.4	51	4.8	13.0	6.9	6	3.5	4.8	90	116	13	870	1110	210	193	175	75	-	-13	-25	76	1.07	63	65	-	1.2	-	-	617	74.8	-	2.2	-
08:30	56.1	53	4.8	12.7	6.5	6	3.5	4.8	88	115	13	870	1140	212	200	180	80	-	-13	-24	76	1.07	63	64	-	1.2	-	-	636	74.5	-	2.2	-
10:30	56.1	42	4.9	12.8	5.9	6	3.5	4.8	106	122	13	870	1145	210	201	180	69	-	-13	-24	76	1.07	63	64	-	1.3	-	-	646	-	-	2.2	-

## SHELL TEMPERATURE

LENGTH IN METERS		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TEMPERATURE	A	263	265	256	267	255	268	256	277	269	267	263	256	260	269	278	280	281	278	280	271	269
	B	267	255	258	256	264	260	264	272	274	269	280	282	279	277	282	284	285	270	264	260	255
	C	255	251	246	247	271	276	276	281	285	267	258	239	247	267	270	284	279	280	281	279	263

Shift	% Mois	T. Feeder % CaO	CaO % Level	LS No of Buckets	F Oil MST	F Oil D tank	F Oil Total
A	42.5	63.9	68	20	274.8	2.7	277.5
B	43.9	71.4	68	25	291.5	2.1	293.6
C	47.0	71.6	59	21	285.9	2.1	287.9

## INTEGRATOR READINGS

DETAILS	FURNACE OIL CONSUMPTION		LIME STONE CONSUMPTION		LIME SLUDGE CONSUMPTION		BURNT LIME PRODUCTION		BIO GAS CONSUMPTION		PLC Reading	cum <sup>3</sup>
	INTEG READING	KL	INTEG READING	MT	INTEG READING	MT	INTEG READING	MT	INTEG READING	CUM		
A SHIFT	66480	6.700	3453	36	9120	120	4372	60	-	5600	31110	5600
B SHIFT	73380	6.900	3493	40	9230	110	4430	60	-	4900	35990	4880
C SHIFT	80080	6.700	3529	36	9340	110	4492	58	-	4800	40690	4700
TOTAL		20.300		112		340		178		15300		15180

Date : 13-01-07

DOC. REF. NO. S

TIME Hrs	HOT WATER TEMP	MUD FILTERS			Slurry flow		MUD SLURRY DEN	WATER CON VV OPEN	MOTOR LOADS (AMP)																Vaccum Pump			ESP			
		SLURRY oTW	FIL 1 VAC	FIL 2 VAC	temp				KILN	OIL PUMPS		PA FAN	ID FAN	STONE CON L <sub>4</sub>	CRUSHER		BUCK ELE	SL-WEIGH FEED	ST-WEIGH FEED	SLUDGE CON	SCREW CON	ASH CON		LIME CON		LUMP BREAK	1	2	3	CUR mA	
					Filter-1	Filter-2				I	II				I	II						I	II	I	II						
06:30	91	14	456	458	-	82	1.09	48	115	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	5
08:30	88	14	435	555	-	79	1.09	47	115	-	4.5	19	32	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	5
10:30	89	14	475	565	-	80	1.09	48	118	-	4.5	19	34	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	5
12:30	89	14	525	574	-	79	1.09	47	115	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	5
13:30	89	14	536	577	-	81	1.08	48	120	-	4.5	19	39	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	5
14:30	96	14	560	580	16	82	1.08	43	115	-	4.5	19	32	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	5
16:30	96	14	440	560	14	77	1.09	40	118	-	4.5	19	32	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	-	165	-	145	320	5
18:30	88	14	430	570	14	78	1.09	40	116	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
20:30	93	14	500	550	14	78	1.09	41	112	-	4.5	19	34	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
21:30	88	14	505	570	14	76	1.09	40	113	-	4.5	19	34	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
22:30	92	12	565	580	-	84	1.10	36	113	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
00:30	90	12	454	550	-	80	1.08	47	110	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
02:30	89	12	436	562	-	80	1.08	46	103	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
04:30	88	12	444	574	-	78	1.09	45	103	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54
05:30	90	12	520	470	-	78	1.09	44	103	-	4.5	19	33	2.2	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	54

## A SHIFT

Kiln and Both Mud Filters Ran throughout the shift  
Both feedings and Both firings Ran throughout.

feed: sludge - 14 TS / hr  
stone - 5 TS

M. Sundararaj  
Operator

## B SHIFT

#104 product Conveyor tripped -  
betn 2.50 - 3.00 pm.  
LB tripped betn 4.15 - 4.35 pm,

Kiln ran thoroughout with both feedings and both firings.

sludge - 14 TS  
stone - 5 TS.

S. P. Balasubramanian  
Operator

## C SHIFT

Kiln, Both Mud Filters  
Both Feeds and Both Firings  
Ran through out the shift

Sludge 13 TS/hr  
Stone 5 TS/hr

G. V. S.  
Operator

PP/F.



## SODA RECOVERY PLANT

15.01.2007

## OPERATOR'S LOG BOOK IN LIME KLIN

TIME	F. OIL STOCK		FEED (MT / HR)		PROD. LIME MT/HR	FO PUMP PRES kg/cm <sup>2</sup>	OIL PRES kg/cm <sup>2</sup>	STEAM PRES kg/cm <sup>2</sup>	OIL TEMP		OIL CON V/V OPEN(%)	OIL FLOW LPM	TEMPERATURES (°C)					DRAUGHT (MMWC)			KILN SPEED		DAMPER POSITION (%)			FLUE GAS		Dust Emission ml/cum	Bio gas cum	LIME PURITY %	MUD WASHER II		
	MAIN TANK	DAY TANK	LIME STONE	LIME SLUDGE					HTR IN °C	HTR OUT °C			BURNING ZONE	BACK END	ESP IN	ESP OUT	BURNT LIME	KILN	ESP	ID FAN	%	RPM	PRY FAN	ID FAN	BLEED AIR FAN	O <sub>2</sub> %	CO %				Tq	R/M LOAD	U/F
01:30	51.7	70	10.0	10.0	4.3	6	2.7	4.0	87	116	8	650	1100	200	177	80	-	-9	-16	76	1.07	65	53	0.0	1.1	-	-	780	75.2	-	2.1	-	
02:30	51.3	75	12.5	10.0	5.0	6	2.7	4.0	87	118	7	600	1100	200	193	179	80	-	-9	-16	76	1.07	65	53	0.0	1.1	-	-	825	74.2	-	2.1	-
03:30	51.3	50	5.5	10.0	6.5	6	2.7	4.0	90	119	7	600	1105	195	173	168	86	-	-10	-17	76	1.07	65	53	0.0	1.1	-	-	750	76.0	-	2.1	86
04:30	51.0	65	5.0	13.5	6.3	6	2.7	4.0	86	118	7	650	1110	196	170	168	88	-	-11	-19	76	1.07	65	57	0.0	1.0	-	-	760	76.0	-	2.1	-
05:30	51.0	48	5.0	13.8	7.8	6	2.7	4.0	90	118	7	670	1125	200	170	162	88	-	-11	-21	76	1.07	65	60	0.0	1.4	-	-	750	-	-	2.1	-
06:30	50.7	71	10.9	12.8	8.4	6	3.3	4.6	86	116	8	809	1090	203	181	164	91	-	-14	-26	76	1.07	65	65	-	1.0	-	-	759	74.4	-	2.1	85
07:30	50.3	75	5.0	13.2	8.5	6	3.3	4.6	84	114	8	800	1090	206	189	172	93	-	-14	-26	76	1.07	65	64	-	0.7	-	-	820	74.8	-	2.2	85
08:30	50.4	45	4.9	13.1	6.7	6	3.1	4.4	107	119	9	756	1095	208	188	171	92	-	-14	-27	76	1.07	73	66	-	1.1	-	-	802	75.4	-	2.2	86
09:30	50.0	42	5.0	13.1	7.2	6	3.2	4.5	103	119	10	792	1080	210	196	176	96	-	-14	-26	76	1.07	73	64	-	1.0	-	-	780	-	-	2.2	-
10:30	49.7	68	4.9	13.8	6.5	6	3.1	4.6	87	116	8	760	1090	210	196	176	92	-	-14	-26	76	1.07	73	65	-	1.0	-	-	826	-	-	2.2	-
11:30	49.7	57	5.0	12.6	6.4	6.0	3.0	4.2	95	120	7.0	730	1074	209	190	176	86	-	-13	-26	76	1.07	65	64	0.0	1.1	-	-	810	74.9	-	2.1	-
12:30	49.4	57	5.0	13.4	5.4	6.0	2.9	4.2	93	119	7.0	699	1090	209	191	170	74	-	-14	-26	76	1.07	63	64	0.0	1.5	-	-	880	75.4	-	2.1	100
13:30	49.1	65	5.0	13.1	7.2	6.0	3.4	4.8	88	112	9.0	750	1075	208	191	174	82	-	-12	-24	76	1.07	63	63	0.0	1.0	-	-	875	75.2	-	2.1	-
14:30	48.8	56	5.0	12.7	6.4	6.0	3.0	4.2	94	116	8.0	740	1080	209	194	175	80	-	-13	-24	76	1.07	63	63	0.0	1.2	-	-	810	76.2	-	2.1	-
15:30	48.8	56	5.0	13.4	7.0	6.0	2.8	4.1	93	118	8.0	710	1090	210	196	178	82	-	-12	-22	76	1.07	63	61	0.0	1.0	-	-	900	-	-	2.1	-

## SHELL TEMPERATURE

LENGTH IN METERS		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TEMPERATURE	A	260	252	248	255	238	220	222	228	256	260	255	238	227	238	260	278	279	282	285	278	262
	B	273	257	256	261	244	250	225	259	277	269	247	238	250	255	275	279	282	280	281	284	276
	C	267	261	259	254	252	254	249	240	260	264	258	249	252	250	265	277	269	275	260	268	259

Shift	% Mois	T. Feeder % CaO	Ca % Level	Ls No of Buckets	F Oil MST	F Oil Dtank	F Oil Total
A	45.7	71.9	44	24	260	3	263
B	46	71.5	45	21	254.3	2.4	256.7
C	45.8	71.1	45	24	247.6	2.76	250.43

## INTEGRATOR READINGS

DETAILS SHIFT	FURNACE OIL CONSUMPTION		LIME STONE CONSUMPTION		LIME SLUDGE CONSUMPTION		BURNT LIME PRODUCTION		BIO GAS CONSUMPTION		PLC Reading	Cum.
	INTEG READING	KL	INTEG READING	MT	INTEG READING	MT	INTEG READING	MT	INTEG READING	CUM		
A SHIFT	102589	4500	3687	42	9751	90	4711	54	-	6100	66107	6200
B SHIFT	108746	6.157	3725	38	9862	111	4764	58	-	6000	72151	6044
C SHIFT	115657	6.911	3765	40	9967	105	4819	59	-	6500	78617	6466
TOTAL		17.568		120		306		171		18600		18710



Date : 15.01.2007

DOC. REF. NO. SRI

TIME Hrs	HOT WATER TEMP	MUD FILTERS			Slurry flow		MUD SLURRY DEN	WATER CON V/V OPEN	103 104		BC4				MOTOR LOADS (AMP)				BC1		BC2		BC5 BC6				Vaccum Pump			ESP I	
		SLURRY oTW	FIL 1 VAC	FIL 2 VAC	cum Filter-1	cum Filter-2			KILN	OIL PUMPS		PA FAN	ID FAN	STONE CON I	CRUSHER		BUCK ELE	SL-WEIGH FEED	ST-WEIGH FEED	SLUDGE CON	SCREW CON	ASH CON		LIME CON		LUMP BREAK	1	2	3	CUR mA	VO kv
										I	II				I	II						I	II	I	II						
06:30	90	14	531	-	29	75	1.1	30	105 136	-	4.2	19	30	2.0	14	14	6.0	4.0	1.0	5.5	20	3.5	1.0	2.8	2.0	4.5	165	-	-	320	50
08:30	91	14	317	-	23	74	1.1	20	108 148	-	4.2	19	30	2.0	14	14	6.0	4.0	1.0	5.5	20	3.5	1.0	2.8	2.0	4.5	165	-	-	320	50
10:30	91	14	420	-	20	80	1.1	25	114 153	-	4.2	19	30	2.0	14	14	6.0	4.0	1.0	5.5	20	3.5	1.0	2.8	2.0	4.5	165	-	-	320	50
12:30	90	14	435	425	20	80	1.1	42	114 150	-	4.2	19	30	2.0	14	14	6.0	4.0	1.0	5.5	20	3.5	1.0	2.8	2.0	4.5	165	190	-	320	50
13:30	88	14	381	420	17	80	1.08	41	117 150	-	4.2	19	30	2.0	14	14	6.0	4.0	1.0	5.5	20	3.5	1.0	2.8	2.0	4.5	165	190	-	320	52
14:30	86	14	450	435	-	78	1.07	44	116 148	-	4.5	19	33	2.0	12	12	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	51
16:30	90	14	475	465	-	77	1.07	44	115 145	-	4.5	19	33	2.0	12	12	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52
18:30	90	13	521	440	-	78	1.06	44	116 149	-	4.5	19	33	2.0	12	12	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52
20:30	93	13	489	473	-	82	1.06	44	106 146	-	4.5	19	33	2.0	12	12	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52
21:30	91	13	434	462	-	80	1.05	41	106 146	-	4.5	19	33	-	-	-	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52	
22:30	87	14	470	480	14	84	1.07	42	109 142	-	4.5	19	33	-	-	-	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52	
00:30	92	14	460	470	10	80	1.08	42	110 147	-	4.5	19	32	2.0	14	15	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52
02:30	98	14	522	490	12	78	1.08	43	116 149	-	4.5	19	32	2.0	14	15	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52
04:30	91	14	581	497	14	78	1.07	40	114 146	-	4.5	19	32	2.0	14	15	7.0	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52
05:30	92	14	601	508	10	81	1.08	38	111 142	-	4.5	19	32	2.0	14	15	6.6	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	190	-	320	52

A SHIFT Kiln Ran Throughout  
 No 1 mud Filter Ran Throughout  
 No 2 mud Filter Started at 11<sup>00</sup> Hrs.  
 No 3 vacuum pump L.C. given to Mech. W.  
 No 2 vacuum pump taken into circuit.  
 Sludge feed 13 TS/Hr  
 Stone feed 5 TS/Hr

S.R. Balanigum  
 Operator

B SHIFT Kiln, Both mud Filter, Both  
 Feeds and Both Firings Ran  
 through out the shift  
 Sludge 13 TS/hr  
 Stone 5 TS/hr  
 No 3 vacuum pump Under L.C.

GVS  
 Operator

C SHIFT Kiln ran throughout.  
 Both feedings and  
 both firings.  
 sludge - 13 TS  
 stone - 5 TS.  
 #3 Vacuum pump is as -  
 per 'B' shift condition.

S. Balanigum  
 Operator

Date : 30/11/07 Tuesday

DOC. REF. NO. SRPP/F-06

TIME Hrs	HOT WATER TEMP	MUD FILTERS			Slurry flow cum		MUD SLURRY DEN	WATER CON VV OPEN	KILN	OIL PUMPS		PA FAN	ID FAN	STONE CON I	CRUSHER		BUCK ELE	SL-WEIGH FEED	ST-WEIGH FEED	SLUDGE CON	SCREW CON	ASH CON		LIME CON		LUMP BREAK	Vaccum Pump			ESP I		ESP II		TIME Hrs
		SLURRY oTW	FIL 1 VAC	FIL 2 VAC	Filter-1	Filter-2				I	II				I	II						I	II	I	II		1	2	3	CUR mA	VOL kv	CUR mA	VOL kv	
06:30	88	12	402	556	-	77	1.032	48	114	-	4.2	19	32	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	6:30
08:30	91	12	452	562	-	74	1.04	44	110	-	4.2	19	32	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	8:30
10:30	86	12	510	546	-	77	1.044	49	105	-	4.2	19	32	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	10:30
12:30	88	12	552	556	-	78	1.036	49	104	-	4.2	19	33	-	-	-	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	12:30	
13:30	88	12	546	550	-	78	1.044	43	104	-	4.2	19	33	-	-	-	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	13:30	
14:30	90	14	406	566	-	76	1.06	44	96	-	4.2	19	30	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	14:30
16:30	91	15	419	571	-	77	1.04	50	110	-	4.2	19	33	-	-	-	4.0	1.2	5.6	20	3.6	1.0	2.6	2.6	4.5	165	-	145	320	50	-	-	16:30	
18:30	90	15	464	573	-	78	1.05	51	112	-	4.2	19	33	2.2	14	15	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	18:30
20:30	91	15	472	570	-	77	1.08	50	110	-	4.2	19	34	2.2	14	15	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	20:30
21:30	88	18	486	576	-	76	1.04	51	108	-	4.2	19	34	2.2	14	14	6.4	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.5	165	-	145	320	50	-	-	21:30
22:30	88	16	490	575	15	81	1.04	42	102	-	4.2	19	33	2.0	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.2	155	-	140	320	50	-	-	22:30
00:30	91	14	436	568	14	82	1.04	36	104	-	4.2	19	33	2.0	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.2	155	-	140	320	50	-	-	00:30
02:30	91	14	482	553	14	80	1.04	40	102	-	4.2	19	33	2.0	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.2	155	-	140	320	50	-	-	02:30
04:30	91	14	490	560	16	81	1.04	41	104	-	4.2	19	33	2.0	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.2	155	-	140	320	50	-	-	04:30
05:30	91	14	495	560	16	75	1.04	38	101	-	4.2	19	33	2.0	14	14	6.5	4.0	1.2	5.6	20	3.6	1.0	2.6	2.0	4.2	155	-	140	320	50	-	-	05:30

A SHIFT Kiln, Both mud filter  
Both feeds, Both filters ran  
through out the shift.

Sludge 13 T/Hr  
Stone 4.6 T/Hr

Operator

B SHIFT Slurry Begin Rake 03 Td.  
up position, Now Nor mal.

Both Firing is Continously  
going on.  
Kiln and Both m. Filters  
are Continously running on.

Sludge 13 Td / Hr  
Stone 4.6 Td / Hr

Operator R. Elagaram

C SHIFT Kiln Ran throughout

Both mud filter ran throughout  
Both firing going on.

Sludge feed 13 T/Hr  
Stone feed 4.6 Td/Hr

Operator SR. Palaniappan



## SODA RECOVERY PLANT

## OPERATOR'S LOG BOOK IN LIME KLIN

30/11/07

TIME	F. OIL STOCK		FEED (MT / HR)		PROD. LIME MT/HR	FO PUMP PRES kg/cm <sup>2</sup>	OIL PRES kg/cm <sup>2</sup>	STEAM PRES kg/cm <sup>2</sup>	OIL TEMP		OIL CON V/V OPEN(%)	OIL FLOW LPM	TEMPERATURES (°C)					DRAUGHT (MMWC)			KILN SPEED		DAMPER POSITION (%)			FLUE GAS		Dust Emission ml/cum	Bio gas cum	LIME PURITY %	MUD WASHER II		
	MAIN TANK	DAY TANK	LIME STONE	LIME SLUDGE					HTR IN °C	HTR OUT °C			BURNING ZONE	BACK END	ESP IN	ESP OUT	BURNT LIME	KILN	ESP	ID FAN	%	RPM	PRY FAN	ID FAN	BLEED AIR FAN	O <sub>2</sub> %	CO %				Tq	R/M LOAD	U/F
30	489	53	5.0	12.6	7.9	6	2.6	3.9	109	119	10	601	1104	207	179	167	85		-9	17	74	1046	74	52		1.0	-	-	781	74.4	-	2.4	-
30	485	62	5.1	12.7	7.2	6	2.5	3.5	110	113	10	677	1126	202	185	168	88		-11	20	74	1046	74	58		1.0	-	-	803	75.2	-	2.2	-
30	481	66	4.6	13.1	8.5	6	2.6	3.6	86	110	11	690	1130	210	202	179	86		-11	20	74	1046	74	60		1.1	-	-	859	74.8	-	2.2	90
30	50.1	72	4.5	13.2	7.1	6	2.4	3.4	84	109	9	647	1142	196	177	170	95		-12	22	74	1046	74	61		1.1	-	-	803	75.6	-	2.2	96
30	51.9	60	4.6	13.5	7.1	6	2.7	3.7	95	116	11	730	1140	208	203	173	85		-13	24	74	1046	74	62		1.5	-	-	809	-	-	2.8	97
30	53.9	44	4.6	14.2	7.0	6	2.6	3.6	116	121	10	700	1124	213	192	180	96		-7	15	74	1046	74	54		1.0	-	-	614	75.2	-	2.3	-
30	53.5	49	4.6	13.8	8.4	6	2.8	3.8	108	120	13	750	1166	202	174	161	84		-14	26	74	1046	74	66		1.5	-	-	720	74.8	-	2.2	85
30	53.1	50	4.6	13.6	8.2	6	3.0	4.2	106	119	15	800	1157	209	196	168	90		-14	26	75	105	74	65		1.0	-	-	652	75.2	-	2.2	-
30	52.9	53	4.6	14.2	7.8	6	3.3	5.5	99	118	18	850	1172	198	186	172	78		-15	26	75	105	74	66		1.4	-	-	628	75.0	-	2.1	-
30	52.9	39	4.6	14.4	8.6	6	3.4	4.6	119	122	19	850	1168	202	189	170	87		-15	27	75	105	74	66		1.0	-	-	640	-	-	2.1	-
30	52.5	80	4.6	13.5	7.5	6	3.5	4.8	103	120	19	860	1155	209	190	174	100		-14	27	74	1046	74	66	0.0	1.1	-	-	640	75.7	-	2.1	-
30	52.2	50	4.6	13.0	7.8	6	3.5	4.8	104	120	20	860	1135	210	192	176	86		-14	24	74	1046	74	64	0.0	1.5	-	-	630	75.3	-	2.1	96
30	51.8	52	4.6	13.5	7.0	6	3.4	4.7	100	120	18	850	1150	210	190	175	84		-11	29	74	1046	74	60	0.0	1.2	-	-	640	75.2	-	2.1	-
30	51.5	51	4.6	13.8	6.9	6	3.3	4.6	98	120	17	825	1165	210	190	176	84		-10	18	74	1046	74	58	0.0	1.0	-	-	650	75.0	-	2.1	88
30	51.5	44	4.6	13.9	5.9	6	3.3	4.6	113	118	19	825	1150	205	188	170	80		-10	17	74	1046	74	58	0.0	1.1	-	-	650	-	-	2.1	-

## SHELL TEMPERATURE

LENGTH IN METERS		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TEMPERATURE	A	274	262	279	274	251	256	260	289	263	260	241	244	261	282	276	280	261	264	259	267	252
	B	281	274	285	287	270	261	277	261	278	268	247	243	269	259	275	280	278	280	276	277	266
	C	277	272	280	287	291	272	287	266	267	275	259	255	264	276	281	285	283	282	279	275	269

Shift	% Mois	T. Feeder % CaO	CaO % Level	LS No of Buckets	F Oil MST	F Oil D tank	F Oil Total
A	45	71.5	-	15	259.3	3.1	262.4
B	48	71.9	-	14	269	2.0	271
C	47.2	71.9	0.0	26	262	2.5	264.5

## INTEGRATOR READINGS

DETAILS	FURNACE OIL CONSUMPTION		LIME STONE CONSUMPTION		LIME SLUDGE CONSUMPTION		BURNT LIME PRODUCTION		BIO GAS CONSUMPTION		Bio Gas per cum	Cum
	INTEG READING	KL	INTEG READING	MT	INTEG READING	MT	INTEG READING	MT	INTEG READING	CUM		
A SHIFT	28052	5.200	5415	39	14444	107	7215	57		6300	37133	6500
B SHIFT	34452	6.400	5452	37	14560	116	7272	59	-	5800	42733	5600
C SHIFT	40952	6.800	5489	37	14670	110	7330	58	-	5200	47733	5000
TOTAL		18.400		113		333		174	-	17300		17100