

Name Mr. M. N. Patel
Email mnpatel@gacl.co.in

Monthwise natural gas and furnace oil consumption for Caustic Soda and caustic Potash

Month	Caustic Soda		Caustic Potash		Brine Heating		Total (C/S + C/P)		Price of	Price of	Cal. Value	Cal. Value	Production	Production	Av.Steam	Ratio	
	NG(SM3)	FO(MT)	NG	FO	NG	FO	NG	FO	NG	FO(MT)	NG	FO	C/S (MT)	C/P (MT)	Cost	SM3 NG	MT FO
Apr-03	210115	172.065	35748	29.274	20672	16.929	266535	218.268	3.5	11500	8500	9500	9228	1570	583.28	80.6	0.08
May-03	200197	228.664	28491	32.542	17561	20.058	246248	281.264	3.53	11612.92			9205	1310	641.56	80.8	0.083
Jun-03	183591	286.319	25576	39.887	61197	95.440	270363	421.646	3.56	11960			10710	1492	636.6	78.6	0.07
Jul-03	194803	341.175	26489	46.392	64934	113.725	286225	501.292	3.53	12314.3			12083	1643	671.14	79.6	0.071
Aug-03	170198	355.340	22551	47.081	56733	118.447	249482	520.868	3.53	12009			12340	1635			
Sep-03	165093	333.438	18037	36.430	55031	111.146	238161	481.014	3.53	11703			12155	1328	642.84	75.6	0.07
Oct-03	192819	353.268	23965	43.906	59329	108.698	276112	505.872	3.53	10995			10695	1440	657.48	75.9	0.08
Nov-03	180507	341.584	23747	44.938	30088	56.931	234343	443.453	3.53	10836.72			12086	1590	627.85	76.6	0.08
Dec-03	184605	396.613	23806	51.145	56883	122.289	265294	570.047	3.52	10798.61			12741	1643	644.77	76.2	0.08
Jan-04	168215	375.658	21434	48.442	55405	125.219	245054	549.319	3.52	11088			12741	1643	657.36	75.6	0.07
Feb-04	104819	345.531	13492	44.559	34883	115.177	153195	505.267	3.52	11100			11919	1537	699.77	75.8	0.075
Mar-04	251418	260.410	32439	33.599	83806	86.803	367663	380.812	4.78	10485			12742	1644	565.82	72.5	0.075
Total	2206378	3790.065	295773	498.195	596523	1090.862	3098674	5379.122	3.65	11367			138645	18475			

Av.Steam

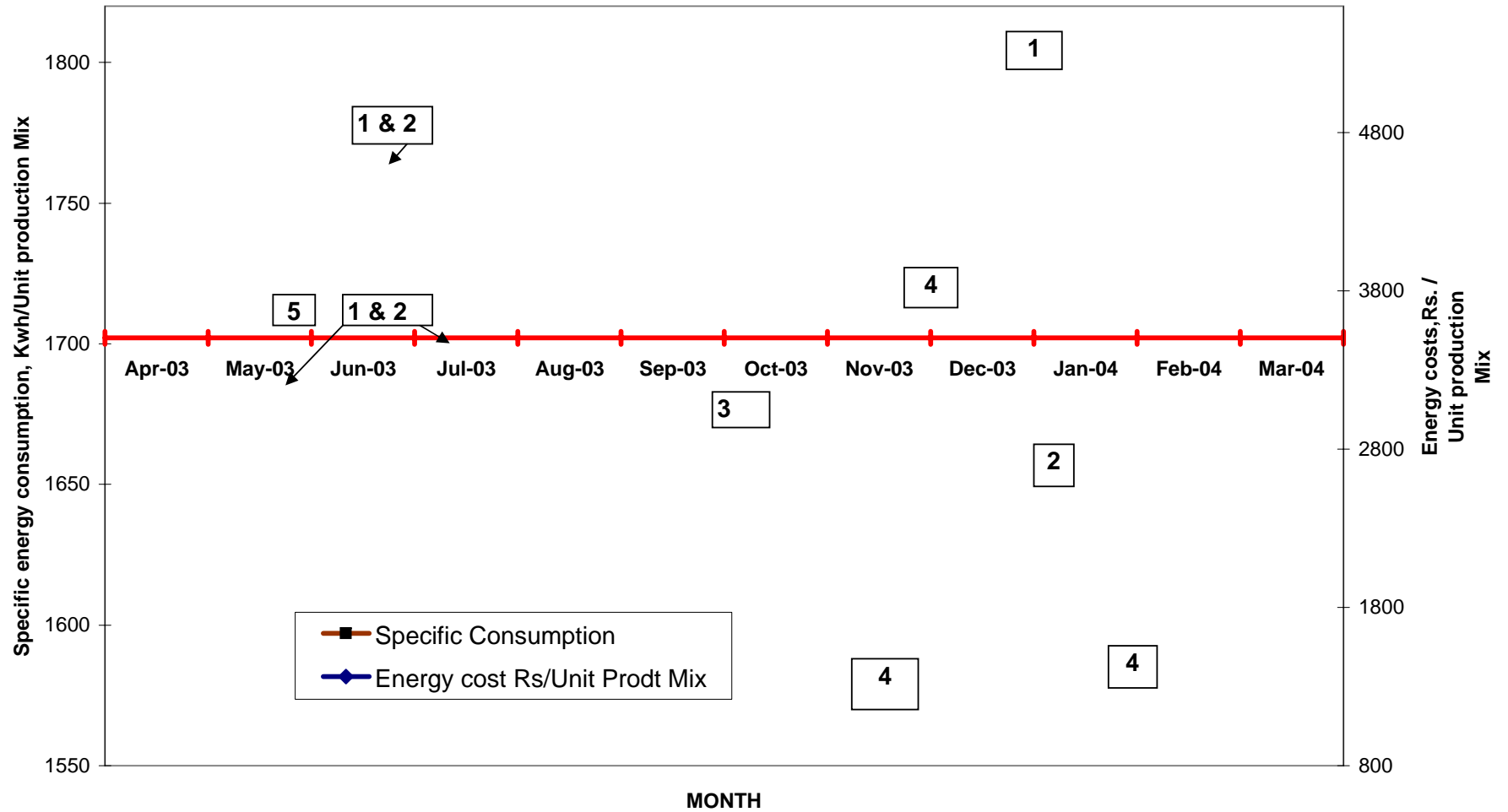
Cost

Total quantity of NG 3098674 SM3 8500 8075
Total quantity of FO 5379.1 MT 9500
7471.003 KL 13194.44

Last five years consumption of NG and FO

Sr No	Year	FO (KL)	NG (SM3)
1	1999-2000	5112.641	16903962
2	2000-2001	7638.766	18033424
3	2001-2002	8260.908	18218505
4	2002-2003	8399.62	18191885
5	2003-2004	15657.81	16434584
6	2004-2005		

ENERGY PERFORMANCE REPORTING



Month	Total (C/S + C/P)		Price of NG	Price of FO(MT)	Cost of NG(Rs.)	Cost of FO(Rs.)	Energy NG(KWH)	Energy FO(KWH)	Electrical KWH	Electrical Cost(Rs.)	Production		Power Rate (Rs./KWH)	Total Cost Rs.	Total Energy KWH	Rs. /KWH	Unit Production Mix	Month	Specific Consumption	Energy cost Rs/Unit Prod Mix
	NG(SM3)	FO(MT)									C/S (MT)	C/P (MT)								
Apr-03	266535	218.268	3.5	11500	932872	2510082	2634356	2411100	#REF!	#REF!	9228	1570	2.827	#REF!	#REF!	#REF!	20225	Apr-03	#REF!	#REF!
May-03	246248	281.264	3.53	11613	869257	3266296	2433850	3106986	#REF!	#REF!	9205	1310	2.607	#REF!	#REF!	#REF!	19752	May-03	#REF!	#REF!
Jun-03	270363	421.646	3.56	11960	962493	5042886	2672195	4657717	#REF!	#REF!	10710	1492	3.178	#REF!	#REF!	#REF!	22929	Jun-03	#REF!	#REF!
Jul-03	286225	501.292	3.53	12314	1010375	6173060	2828971	5537528	#REF!	#REF!	12083	1643	3.090	#REF!	#REF!	#REF!	25802	Jul-03	#REF!	#REF!
Aug-03	249482	520.868	3.53	12009	880671	6254895	2465808	5753774	#REF!	#REF!	12340	1635	3.290	#REF!	#REF!	#REF!	26279	Aug-03	#REF!	#REF!
Sep-03	238161	481.014	3.53	11703	840709	5629307	2353920	5313527	#REF!	#REF!	12155	1328	3.200	#REF!	#REF!	#REF!	25419	Sep-03	#REF!	#REF!
Oct-03	276112	505.872	3.53	10995	974675	5562063	2729012	5588121	#REF!	#REF!	10695	1440	3.360	#REF!	#REF!	#REF!	22814	Oct-03	#REF!	#REF!
Nov-03	234343	443.453	3.53	10837	827229	4805576	2316177	4898609	#REF!	#REF!	12086	1590	2.970	#REF!	#REF!	#REF!	25720	Nov-03	#REF!	#REF!
Dec-03	265294	570.047	3.52	10799	933833	6155715	2622088	6297031	#REF!	#REF!	12741	1643	3.730	#REF!	#REF!	#REF!	27059	Dec-03	#REF!	#REF!
Jan-04	245054	549.319	3.52	11088	862590	6090849	2422044	6068059	#REF!	#REF!	12741	1643	3.990	#REF!	#REF!	#REF!	27059	Jan-04	#REF!	#REF!
Feb-04	153195	505.267	3.52	11100	539246	5608462	1514134	5581436	#REF!	#REF!	11919	1537	3.590	#REF!	#REF!	#REF!	25313	Feb-04	#REF!	#REF!
Mar-04	367663	380.812	4.78	10485	1757429	3992814	3633878	4206644	#REF!	#REF!	12742	1644	3.120	#REF!	#REF!	#REF!	27063	Mar-04	#REF!	#REF!
Total	3098674	5379.1	3.65	11367	11391379	61092006	30626433	59420532	#REF!	#REF!	138645	18475	3.260	#REF!	#REF!	#REF!	295434	Total	#REF!	#REF!

Chlorine	8176	992
	8156	828
	9489	943
	10706	1038
	10933	1033
	10769	839
	9476	910
	10708	1005
	11289	1038
	11289	1038
	10560	971
	11289	1039
	122839	11676
	134516	

Hydrogen	231	28
	230	24
	268	27
	302	30
	309	29
	304	24
	267	26
	302	29
	319	30
	319	30
	298	28
	319	30
	3466	333
	3799	

295434

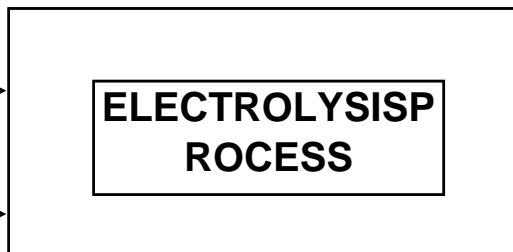
Month	Caustic Soda		Brine Heating		Power KWH	Power Rate (Rs./KWH)	Production (MT)
	NG(SM3)	FO(MT)	NG	FO			
Apr-03	210114.7	172.065	20672.4	16.929	24779796	2.827	9228
May-03	200196.5	228.664	17561.1	20.058	24876581	2.607	9205
Jun-03	183590.6	286.319	61196.9	95.44	28469832	3.178	10710
Jul-03	194802.6	341.175	64934.2	113.725	32109915	3.09	12083
Aug-03	170198.4	355.34	56732.8	118.447	32343958	3.29	12340
Sep-03	165093	333.438	55031	111.146	31369892	3.2	12155
Oct-03	192818.5	353.268	59328.8	108.698	26981066	3.36	10695
Nov-03	180506.7	341.584	30088.48	56.931	30798496	2.9699	12086
Dec-03	184604.8	396.613	56883.3	122.289	32311664	3.73	12741
Jan-04	168214.9	375.658	55405	125.219	32176776	3.99	12741
Feb-04	104819.2	345.531	34883.16	115.177	30096828	3.59	11919
Mar-04	251418.3	260.41	83806.1	86.803	32055461	3.12	12742
Total	2206378.2	3790.1	596523.2	1090.9	358370265	3.26	138645

Month	Caustic Potash		Power KWH	Power Rate (Rs./KWH)
	NG(SM3)	FO(MT)		
Apr-03	35747.7	29.27	3223750	2.827
May-03	28490.8	32.54	2716575	2.607
Jun-03	25575.8	39.89	3075910	3.178
Jul-03	26488.5	46.39	3385113	3.09
Aug-03	22550.6	47.08	3342770	3.29
Sep-03	18037.3	36.43	2690940	3.2
Oct-03	23964.5	43.91	2856700	3.36
Nov-03	23747.4	44.94	3208630	2.9699
Dec-03	23805.5	51.15	3279640	3.73
Jan-04	21434.0	48.44	3262150	3.99
Feb-04	13492.4	44.56	3079830	3.59
Mar-04	32438.5	33.60	3304175	3.12
Total	295773.0	498.2	37426183	3.26

Production (MT)
1570
1310
1492
1643
1635
1328
1440
1590
1643
1643
1537
1644
18475

KWH - 485843414

Rs.130.366 Crores



**C/SODA & C/POTASH
157120 MT**

CHLORINE -134516 MT

HYDROGEN - 3799 MT

Pop up explanations for change in consumption and cost

a) Increased specific consumption or cost list

	Reason for increased energy consumption Kwh/ unit output	Reason for increased energy cost Rs./ unit output
1	Membrane aging effect	Power cost increased
2	Higher production	Higher FO Consmp. As less availability of NG
3	Schedule shut down of plant	

b) Decreased specific consumption or cost list

	Reason for decreased energy consumption Kwh/ unit output	Reason for decreased energy cost Rs./ unit output
4	Remembraning & Recoating	Power cost decreased
5	Lower production	
6		