

PRODUCTWISE INSTALLED CAPACITY & PRODUCTION OF CHEMICALS

(Figures in Tonnes)

S. No.	PRODUCT	Inst. Cap.	PRODUCTION				%Variation	%Cap.Utilin
		Mar. 2003(Prov)	1999-00	2000-01	2001-02	2002-03(Prov)	Col.7/Col.6	in 2002-03
1	2	3	4	5	6	7	8	9
I ALKALI CHEMICALS								
1	Soda Ash	1914000	1625797	1602648	1510246	1632381	8.09	85.29
2	Caustic soda	2093380	1343806	1481287	1438029	1519593	5.67	72.59
3	Liquid Chlorine	1212956	849958	848599	858511	970194	13.01	79.99
	TOTAL	5220336	3819561	3932534	3806786	4122168	8.28	78.96
II INORGANIC CHEMICALS								
1	Aluminium Fluoride	17560	13880	13713	17976	14821	-17.55	84.40
2	Calcium Carbide	71600	69869	70631	58802	41142	-30.03	57.46
3	Carbon Black	315700	245164	256863	247824	211494	-14.66	66.99
4	Potassium Chloride	11625	3468	2632	2264	2150	-5.04	18.49
5	Sodium chlorate	2500	198	0	0.00	0.00		0
6	Titanium Dioxide	66500	24478	43055	46501	45463	-2.23	68.37
7	Red Phosphorus	1680	794	836	765	590	-22.88	35.12
	TOTAL	487165	357851	387730	374132	315660	-15.63	64.80
III ORGANIC CHEMICALS								
1	Acetic Acid	241230	190987	240755	232005	251683	8.48	104.33
2	Acetic Anhydride	50420	34629	30216	29995	23191	-22.68	46.00
3	Acetone	61100	47062	44478	38785	38971	0.48	63.78
4	phenol	66500	69957	71257	60844	75590	24.24	113.67
5	Methanol	319000	345028	362895	309296	362165	17.09	113.53
6	Formaldehyde	192240	175339	164233	147613	181849	23.19	94.59
7	Nitrobenzene	52000	37879	19258	26283	25332	-3.62	48.72
8	citric Acid	6250	6112	7162	5621	3327	-40.81	53.23
9	Maleic Anhydride	14250	12115	13493	13948	11885	-14.79	83.40
10	Pentaerithritol	12800	13131	14056	14353	14042	-2.17	109.70
11	Aniline	28700	23790	11588	18257	14601	-20.03	50.87
12	Chloro Methanes	81120	73137	79986	81562	79129	-2.98	97.55
13	ONCB	32810	14698	16255	24966	24642	-1.30	75.11
14	PNCB	41600	16760	16175	23463	24642	5.02	59.24
15	MEK	4000	7690	7445	4237	8272	95.23	206.80
16	Acetaldehyde	127150	99196	129586	118930	118061	-0.73	92.85
	TOTAL	1331170	1167510	1196553	1133110	1257382	10.97	94.46

(Figure in Tonnes)

S. No.	PRODUCT	Ins Capa Mar.2002	PRODUCTION			2002-03	% Variation Col.7/Col.6	%Cap. Utilise in 2002-03
			1999-00	2000-01	2001-02			
1	2	3	4	5	6	7	8	9
C	HERBICIDES							
31	2,4-D	2900	1348	1290	202	0	-100.00	0.00
32	Butachlor	900	706	224	309	244	-21.04	27.11
	TOTAL	3800	2054	1514	511	244	-52.25	6.42
D	WEEDICIDES							
33	Isoproturon	8500	4610	3752	3779	2657	-29.69	31.26
34	Glyphosphate	1950	1676	674	409	107	-73.84	5.49
35	Paraquat	2000	1374	1239	1000	0	-100.00	0.00
36	Diuron	0	0	24	0	48		
37	Atrazin	40	128	100	203	200	-1.48	500.00
38	Fluchlorine	300	154	50	133	185	39.10	61.67
	TOTAL	12790	7942	5839	5524	3197	-42.13	25.00
E	RODENTICIDES							
39	Zinc Phosphide	860	474	592	338	235	-30.47	27.33
40	Aluminium Phosphide	2300	1842	2461	2184	1991	-8.84	86.57
	TOTAL	3160	2316	3053	2522	2226	-11.74	70.44
F	FUMIGANTS							
41	Methyle Bromide	300	100	63	41	56.00	36.59	18.67
42	Decofol	150	124	106	109	90	-17.43	60.00
	TOTAL	450	224	169	150	146	-2.67	32.44
	GRAND TOTAL OF PESTICIDES	137639	93709	92336	80301	67400	-16.07	48.97
	V DYES & DYESTUFFS							
1	Azo Dyes	7937	3687	2986	2864	4096	43.02	51.61
2	Acid Direct Dyes & Other	350	44	57	25	10	-60.00	2.86
3	Basic Dyes	535	186	51	14	2	-85.71	0.37
4	Disperse Dyes	4277	2680	2553	1870	1288	-31.12	30.11
5	Fast Colour Bases	600	33	0	0	0		0
6	Ingrain Dyes	327	201	78	54	29	-46.30	8.87
7	Oil Soluble (Solvent Dyes)	1000	409	506	246	324	31.71	32.40
8	Optical Whitening Agents	1090	433	434	458	405	-11.57	37.16
9	Organic Pigment Colour	8953	8737	9476	9808	10932	11.46	122.10
10	Pigment Emulsion	6290	2189	1993	1924	2015	4.73	32.03
11	Reactive Dyes	7900	3048	3077	2687	2984	11.05	37.77
12	Sulphur Dyes	3300	1906	2316	1588	1197	-24.62	36.27
13	Vat Dyes	2261	2125	1753	1515	1445	-4.62	63.91
14	Solubilised Vat Dyes	127	33	30	33	36	9.09	28.35
15	Naphthols	1200	556	553	611	370	-39.44	30.83
16	Other Dyes	3000	2039	2925	702	05		
	Total	49147	28306	28788	24399	25133	3.01	51.14
	Grand Total	7225457	5466937	5637941	5418728	5787743	6.81	80.10
	@ : COMBINED CAPACITY PLANT BEING MULTIPURPOSE							
	0 : PRODUCTION SUSPENDED DUE TO DEMAND							
	(-) : PRODUCTION LESS DUE TO LOW DEMAND/EXPORT							
	\$: PRODUCTION CLOSED DUE TO HIGH INFRASTRUCTURE COST AND CHINESE DUMPING							

INSTALLED CAPACITY & PRODUCTION OF IMPORTANT PETROCHEMICALS

(Figures in Tonnes)

Products	Ins. Cap.	Production				Growth(%)	Cap. Utilis. %
	Mar.,03	1999-00	2000-01	2001-02	2002-03(P)	Col. 6 /Col. 5	in 2002-03
1	2	3	4	5	6	7	8
A : PETROCHEMICALS							
I : SYNTHETIC FIBRES / YARN							
1. Nylon Filament Yarn (NFY) (i)	28040	26058	26932	27008	29771	10.2	(i)
2. Nylon Industrial Yarn (NIY) (i)	50200	50292	48738	51382	51404	0.0	(i)
3. Polyester Filament Yarn (PFY) (ii)	1263700	795812	843411	905097	944251	4.3	(ii)
4. Polypropylene Filament Yarn (PPFY)(i)	22480	13619	13042	16032	15131	-5.6	(i)
Sub Total Yarn (1+2+3+4)	1364420	885781	932123	999519	1040557	4.1	76.3
5. Acrylic Fibre (Inc. Dry Spun) (AF)	137500	94993	99147	95014	105146	10.7	76.5
6. Polyester Staple Fibre (PSF)	610200	547048	563217	546291	574689	5.2	94.2
7. Polypropylene Staple Fibre(PPSF) (iii)	6800	0	0	2417	2517	4.1	37.0
8. Polyester Staple Fibrefil (PSFF)	46200	27794	24818	25312	29506	16.6	63.9
Total Synth. Fibre / Yarn	2165120	1555616	1619305	1668553	1752415	5.0	80.9
II : POLYMERS							
1. Linear Low Density Polyethylene (iv)	960000	253925	374865	452645	500148	10.5	(iv)
2. High Density Polyethylene (HDPE)	560000	571759	757542	886825	977751	10.3	(iv)
Sub Total (1+2)	1520000	825684	1132407	1339470	1477899	10.3	97.2
3. Low Density Polyethylene (LDPE)	200000	184237	184167	186528	191693	2.8	95.8
4. Polystyrene (PS)	414000	160969	195247	223175	224404	0.6	54.2
5. Polypropylene (PP)	1365000	796673	1169904	1370170	1430242	4.4	104.8
6. Poly Vinyl Chloride (PVC)	779500	738999	760283	829623	821592	-1.0	105.4
7. Expandable Polystyrene (EX-PS)	37300	22473	23140	25204	28912	14.7	77.5
Total Polymers	4315800	2729035	3465148	3974170	4174742	5.0	96.7
III : ELASTOMERS							
1. Styrene Butadiene Rubber (SBR)	61780	12561	14288	17316	16402	-5.3	26.5
2. Poly Butadiene Rubber (PBR)	50000	36765	40814	42525	53583	26.0	107.2
3. Nitrile Butadiene Rubber (NBR)	9250	5124	5300	6487	6484	0.0	70.1
4. Ethyl Propylene Dimers (EPDM)	10000	4914	4400	3870	5037	30.2	50.4
5. Ethyl Vinyl Acetate (EVA) (v)	13500	12174	12724	9174	0	-100.0	0.0
Total Elastomers	144530	71538	77526	79372	81506	2.7	56.4
IV : SYNTHETIC DETERGENT							
1. Linear Alkyl Benzene (LAB)	313500	325799	359012	356038	375233	5.4	119.7
2. Ethylene Oxide (EO)	107000	65485	66114	68722	72193	5.1	67.5
Total Synth. Detergent	420500	391284	425126	424760	447426	5.3	106.4
V : PERFORMANCE PLASTICS							
1. ABS Resin	47200	37620	32836	49032	49487	0.9	104.8
2. Nylon-6 & Nylon 66	11080	3717	10736	8333	9013	8.2	81.3
3. Polymethyl Methacrylate (PMMA)	3500	2214	2864	2369	2584	9.1	73.8
4. Styrene Acrylonitrile (SAN)	40000	20968	23599	30149	33572	11.4	83.9
Total Performance Plastics	101780	64519	70035	89883	94656	5.3	93.0
TOTAL MAJOR PETROCHEMICALS							
(I+II+III+IV+V)	7147730	4811992	5657140	6236738	6550745	5.0	91.6

(Figures in Tonnes)

Products	Ins. Cap.	Production				Growth(%)	Cap. Utilis.%
	Mar.,03	1999-00	2000-01	2001-02	2002-03(P)	Col. 6 /Col. 5	in 2002-03
1	2	3	4	5	6	7	8
B : INTERMEDIATES							
I : FIBRE INTERMEDIATES							
1. Acrylonitrile (ACN)	30000	18135	32195	20002	33091	65.4	110.3
2. Caprolactum	120000	115369	117593	108412	100390	-7.4	83.7
3. Dimethyl Terephthalate (DMT)	300000	179705	190522	180914	199077	10.0	66.4
4. Mono Ethylene Glycol (MEG)	589900	480944	556298	575407	611233	6.2	103.6
5. Purified Terephthalic Acid (PTA)	1325000	1151789	1488218	1532596	1704682	11.2	128.7
Total Fibre Intermediates	2364900	1945942	2384826	2417331	2648473	9.6	112.0
II : BUILDING BLOCKS							
A : OLEFINS							
1. Ethylene	2447000	1540802	1912676	2102743	2304628	9.6	94.2
2. Propylene	1540800	854892	1349583	1534680	1588534	3.5	103.1
3. Butadiene	139200	40548	48471	59385	68511	15.4	49.2
Total Olefins	4127000	2436242	3310730	3696808	3961673	7.2	96.0
B : AROMATICS							
1. Benzene	685810	428389	496144	510920	594951	16.4	86.8
2. Toluene	280400	135903	137338	149561	162861	8.9	58.1
3. Mixed Xylene	165000	72379	59971	54305	52325	-3.6	31.7
4. Ortho-xylene	203900	40704	110841	157409	191739	21.8	94.0
5. Paraxylene	1723600	699799	1311873	1370354	1424382	3.9	82.6
Total Aromatics	3058710	1377174	2116167	2242549	2426258	8.2	79.3
C : OTHER PETRO-BASED PRODUCTS							
1. Butanol	25690	20532	22359	15470	15697	1.5	61.1
2. C4-Raffinate	225000	160501	159154	169783	171792	1.2	76.4
3. Di-Ethylene Glycol	43875	36498	37866	37601	42244	12.3	96.3
4. Diacetone Alcohol	7200	6534	6333	7435	7292	-1.9	101.3
5. Ethylene Dichloride (EDC) (vi)	@	119804	117503	115093	147672	28.3	(vi)
6. 2-Ethyl Hexanol	40000	22512	28171	20468	21695	6.0	54.2
7. Epichlorohydrine	10000	921	3318	3867	8194	111.9	81.9
8. Isopropanol (v)	24000	21353	23374	21525	0	-100.0	0.0
9. Methyl Methacrylate (MMA)	4375	1965	4013	2665	3586	34.6	82.0
10. Methyl Isobutyl Ketone(MIBK) (v)	3700	5326	3947	1818	0	-100.0	0.0
11. Phthalic Anhydride (PAN)	270200	168704	155748	171419	196699	14.7	72.8
12. Propylene Oxide (PO)	24000	21385	20143	19476	21280	9.3	88.7
13. Propylene Glycol (PG)	13250	11676	10954	10386	11775	13.4	88.9
14. Vinyl Chloride Monomer(VCM) (vi)	@	50203	43282	64004	62968	-1.6	(vi)
15. Vinyl Acetate Monomer (VAM)	59500	28582	36390	28141	26492	-5.9	44.5
Total (1 to 15)	750790	676496	672555	689151	737386	7.0	98.2

P : Provisional**(i) : Independent capacity of units producing only NFY and NIY****(ii) : Includes capacity of all the units producing NFY, NIY, PPFY and PFY under broadbanding as Synthetic Filament Yarn . As the capacities are not separate , capacity utilisation can not be worked out.****(iii) : PPSF production was nil as Alembic Chemicals (Neomer Divn) plant was closed for technical reasons from 98-99 to 2000-01****(iv) : 960000MT is the swing capacity to produce both LLDPE and HDPE and hence capacity utilisation can not be worked out****(v) : NOCIL plant under shutdown due to economic viability and hence nil production of PVC, EVA, Isopropanol, MIBK, EDC, VC****(vi) : No independent installed capacity as both EDC and VCM are By-Products through Ethylene/Alcohol route and hence no capacity utilisation**

(Figure in Tonnes)

S. No.	PRODUCT	Inst. Cap Mar.2002	PRODUCTION				%Variation Col.7/Col.6	% Cap. Utiliza 01-02/00-01
			1999-00	2000-01	2001-02	2002-03		
1	2	3	4	5	6		7	8
IV PESTICIDES & INSECTIDES								
A	INSECTIDES							
1	D.D.T	6344	-3638	3786	3513	2937	-16.40	46.30
2	Malathion	9500	5894	5900	5597	4248	-24.10	44.72
3	Parathion (Methyl)	4000	1860	1979	2055	1901	-7.49	47.53
4	Dimethoate	3210	1447	1463	847	758	-10.51	23.61
5	DDVP	3900	2495	2648	2832	2426	-14.34	62.21
6	Quinalphos	5600	2218	2649	2059	1770	-14.04	31.61
7	Monocrotophos	16200	9522	8319	6706	6519	-2.79	40.24
8	Phosphamidon	5700	3234	3470	534	835	56.37	14.65
9	Phorate	7500	6140	6101	4717	3156	-33.09	42.08
10	Ethion	5100	3383	3456	3838	1246	-67.54	24.43
11	Endosulphan	10100	8287	8508	4489	3663	-18.40	36.27
12	Fenvalerate	2100	1394	1632	1070	522	-51.21	24.86
13	Cypermethrin	4600	3741	4438	5064	5078	0.28	110.39
14	Anilophos	1200	900	848	596	354	-40.60	29.50
15	Acephate	4800	2884	3109	4012	4837	20.56	100.77
16	Chlorpyrifos	10300	7513	8033	6621	6313	-4.65	61.29
17	Phosalone	1000	514	582	440	438	-0.45	43.80
18	Metasystox	@	744	583	660	513	-22.27	
19	Abate	@	185	265	67	45	-32.84	
20	Fenthion	@	155	189	69	352	410.14	
21	Trizaphos	@	845	847	1512	1151	-23.88	
22	Lindane	1300	1107	483	266	331	24.44	25.46
23	Temphos	200	6	176	142	122	-14.08	61
24	Deltamethrin	300	104	124	97	184	89.69	61.33
25	Alphamethrin	400	361	115	303	194	-35.97	48.50
	TOTAL	103354	68571	69703	58106	49893	-14.13	48.27
B	FUNGICIDES							
26	Captain & Captafol	1800	1125	1383	1177	782	-33.56	43.44
27	Carbandazin	1085	900	108	670	1263	88.51	116.41
28	Calixin	200	35	678	61	33	-45.90	16.50
29	Mancozeb	11000	10323	9889	11628	10188	-12.38	92.62
	TOTAL	14085	12383	12058	13536.00	12266.00	-9.38	87.09