P.P. FILES & FOLDER

1. <u>INTRODUCTION</u>

The advantages of PP files & folders are as follows:

Recycle, Soft, hence convenient to use, available in various colours,, long lasting, Eco-friendly, more durable, available in different colours, different finishes, elegant and moisture proof.

A PP file & folder is aesthetically better which befits the stature of a company. The PP file thickness varies between 0.18 mm to 1.25 mm.

A wide range of PP products apart from PP files such as presentation album or display books, ring binders and PP refillable note books, PP letter files, expansion cases for holding cheque books etc. business card holders, clear holders and sheet protectors, presentation folders and report covers, document action cases and system boxes are now available.

Printing on PP Files & Folders is done by screen printing and the ink used is indelible PVC ink. Printing on PP files is not as good as that on cardboard since the ink might fade due to moisture.

The shelf life of PP file is about 40 years, hence though costlier than a cardboard file is over all economical.

A PP file is more convenient to use i.e. can be folded.

2. MARKET POTENTIAL

PP file folders are now a days widely used in all Conferences/Seminars and offices to keep the document in a better condition and safe. These are available in various colours and appearance is good, therefore

preferred to a card board files. The consumption of IP Sheet during 2004-05 was 7 KT, which is likely to increase to 22 KT by 2010-11, as projected by working group on Petrochemicals, Min. of Chemicals & Fertilizers./ Two layer PP sheet upto 0.15 mm thickness is suitable for different types of stationery materials, which is rapidly gaining market acceptance in India.

3. BASIS & PRESUMPTIONS

- (i) The output capacity is taken as 120 Kgs/hr. The unit will work at 20 hrs. per day for 25 working days in a month and 300 days in a year. The output capacity may vary from machinery to machinery and the cost of machinery may also vary from supplier to supplier.
- (ii) The time period for achieving the full envisaged capacity utilisation is six months
- (iii) The labour wages are as per the prevailing rates in the market
- (iv) The rate of interest for fixed and working capital is taken as 12 per cent
- (v) The margin money requirement for this project is 30 per cent
- (vi) The pay back period of this project is 5 years
- (vii) The rate of land is taken @ Rs. 500/-per sq. mtr. and construction charges are taken @ Rs. 3500 per sq. mtr. This may also vary from place to place.
- (viii) The present profile has to be updated taking into prevailing cost of land, building, machinery etc. at the time of implementation of the project

4. <u>IMPLEMENTATION SCHEDULE</u>

The Time requirement for preparation of Project report : Two months

Time requirement for selection of Site : One month

Time required for registration as Small Scale Unit : One

Week

Time required for acquiring the loan

Machinery procurement, erection and commissioning: Three months

Recruitment of labourer etc. : One month

Trial runs : One month

5. <u>TECHNICAL ASPECT</u>

MANUFACTURING PROCESS

The extruder is often equipped with a gear pump to regulate output and control sheet thickness and quality, two crucial aspects of sheet production. The slot die, with the die lip opening set slightly greater than the desired sheet thickness, extrudes the melt at 200° C to 230° C, horizontally into a nip between two rolls of a three roll stack. A small bead of melt is usually built up in the first nip so that

the surface of the sheet may be polished by the bottom roll prior to being cooled by the central roll. This action helps provide uniform thickness across the sheet and gives a smoother surface to the air side of the sheet. Except in very thick sheets, crystallisation is usually complete through the thickness before leaving the first cooling roll, and the second cooling roll is simply for the removal of additional heat. The sheet passes over a roller conveyor, which sometime will employ fans to measuring device, the sheet is cut and stacked, or wound into rolls. Mono and multilayer films upto 150 micro thickness are used to manufacture plain and embossed film rolls to make stationery files of different types. There lies tremendous opportunities considering the ever increasing demand for high value products of such kind.

Normally, 2 layer comprises of Homopolymer & Copolymer of PP having closer MFI values. The machine can also process very thin second layer

of material having higher sealing properties. By having this stationery products such as files, folders, box files, computer disk covers etc. can have better bonding between two meeting surfaces.

Sheet lines vary greatly in size, but most of the production occurs within a fairly narrow band, especially for PP Sheet thickness of 0.2 mm to 10 mm are possible, but anything over 6 mm is unusual. Most of the production is near 1 mm which is also the point below which the sheet is rolled and over which it is cut and stacked.

6. **QUALITY & STANDARD**

As per customer's specification.

7. **PRODUCTION CAPACITY** (Per Annum)

(a) Quantity (M.T.) : 720

(b) Value (Rs.) : 6,98,40,000.00

8. TOTAL POWER REQUIREMENT

Total connected load (KW) : 200

9. POLLUTION CONTROL MEASURES

The unit does not create any pollution. However, a proper ventilation should be made in the processing area for the better circulation of the fresh air.

10. ENERGY CONSERVATION

Entrepreneurs may select energy efficient machinery and proper planning has also to be made for saving energy in the unit.

11. FINANCIAL ASPECT

i) (Rs.)	LAND & BUILDING:	Area sq. mtrs.	Rate Rs	s. per	Sq.	mtr.		
	Land	300	500	1,50,	0,000.00			
	Building	100		3500				
3,50,000	0.00							
			Total	: 5,0	00,00	0.00		
ii)	MACHINERY & EQUI	PMENT:						
	Sr. No. Descript	ion of machines	<u>Qty.(</u>	(Nos.)				
(Rs.)								
	(a) Production Unit							
	i) Extrusion Machine Cap. 120 Kgs./hr.							
	1,00,00,000.00							
	ii) Cooling Tower							
	2,00,000.00							
	iii) Scrap Grinder							
	1,00,000.00							
	iv) Screen Printing Machine							
	1,50,000.00 v) Compressor 1,00,000.0							
	(b) Testing Equipment & Other Accessories							
	50,000.00							
	(c) Electrification & Installation @ 10% of cost & machinery 10,50,000.00 (a) & (b)							
	(d) Pre-operative expenses 50,000.00							
	Total cost of machinery & equipment (a to d) 1.16.00.000.00							

A.

FIXED CAPITAL

- (e) Cost of Moulds & Dies
- 2,00,000.00
- (f) Cost of Office Equipment/Furniture/Computers etc. 3,00,000.00

Total: 1,16,00,000.00

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Fixed Capital = (i) + (ii) = 5,00,000.00 + 1,16,00,000.00 = 1,21,00,000.00

B. <u>WORKING CAPITAL</u>

i) Staff and Labour (Per Month)

Designation (Rs.)	Nos	S.	Salary (Rs.)		
Production Eng	ineer/Manager01		10,000.00	10,000.00	
Sales Executive			5,000.00	5,000.00	
Accountant-cur	n-Store Keeper	01	4,000.0	0	
4,000.00					
Watchman	02		3,000.00	6,000.00	
Skilled Workers	02		3,500.00	7,000.00	
Helpers	03		3,000.00	9,000.00	
				41,000.00	
Add perquisite 0.00	@ 10% of the Sala	ary			
			Total:	45,100.00	
			Or Say Rs.	45,000.00	
ii) <u>Raw Mate</u>	e <u>rial</u> (Per Month)	Qty	. (M.T.) Rate Rs./	M.T	

45,00	0,000		oropylene Granules	60	75,000				
	iii)	<u>Utilities</u> (per month): (Rs.)							
		a)	Power 3,00,000.00 (60% utilisation x 200 KW x 500 hrs. x Rs. 5 per unit)						
1,000	0.00	b)	Water						
		•		Total:		3,01,000.00			
	iv)	<u>Othe</u>	er Contingent Expense	s (Per month)		(Rs.)			
		(ززز	Repairs and Mainten	ance					
		b)	Transportation Charg	ges		4,000.00			
		c)	Postage and statione	Postage and stationery 1,000.00					
		d)	Telephone/Fax/Comp	Telephone/Fax/Computer					
			2,000.00						
		e)	Consumable Stores						
	1,00	0.00							
		f)	Advertisement & Pub	olicity					
	1,00	0.00		j					
107									
		g) h)	Insurance Miscellaneous Expen ,000.00	ses		10,000.00			
					Total:	21,000.00			
12.	<u> TOT</u>	AL W	ORKING CAPITAL (F	Per Month)		(Rs.)			
	i)	Staff	and Labour			45,000.00			

	ii)	Raw	Material				
	45,00	0,000.	00				
	iii)	Utiliti	es		3,01,000.00		
	iv)	Othe	r Contingent Exp.		21,000.00		
				Total:	48,67,000.00		
	Work	ing Ca	apital for 3 months		1,46,01,000.00		
13. (Rs.)	<u>TOT</u>	AL CA	PITAL INVESTMENT				
	A.	Fixed	l Capital				
1,21,	00,00	0.00					
1,46,	01,00	B. 0.00	Working Capital for 3 months				
				Total:	2,67,01,000.00		
14.	FIAN	ICI AL	<u>ANALYSIS</u>		(Rs.)		
	A.	Cost	of Production (per year) (300 days)				
		(a)	Total Recurring Cost				
	5,84	,04,00	0.00				
		(b)	Depreciation on building @ 5%				
	17,50	00.00					
	(c) Depreciation on machinery& equipment @ 10%						
	11,60,000.00						

- Depreciation on Dies, Moulds & office equipment 1,00,000.00 @ 20%
- Interest on total Capital Investment @ 12% 32,04,120.00

6,28,85,620.00 Total:

Or Say Rs. 6,28,86,000.00

Sales/Turn over (per year) В. Qty.(MT) Rate (MT) Value (Rs.) Item P.P. Files & Folders 720 97,000 6,98,40,000.00 C. Net Profit (Per year) Sales(Rs) – Cost of Production (Rs.) Profit (Rs.) 6,98,40,000 6,28,86,000 = 69,54,000.00 D. Net Profit Ratio Net Profit x 100 Sales 69,54.000 x 100 9.95 % 6,98,40,000 E. Rate of Return Net Profit x 100 Total Capital Investment 69,54,000 x 100 26.0 % 2,67,01,000 F. Break-even Point (Rs.) Fixed Cost (Per Year) Depreciation on Building @ 5% a) 17,500.00 Depreciation on Machinery & Equipment @ 10% 11,60,500.00 Depreciation on Moulds/Dies & Office Equipment c) 1,00,000.00 @ 20%

1,20,000.00

d)

Insurance

- e) Interest on total capital investment
- 32,04,120.00
- f) 40% of salary and wages
- 2,16,000.00
- g) 40% of other contingent expenses 52,800.00

Total: 48,70,420.00

Net Profit (Per Year)

Or Say Rs. 48,70,000.00

B.E.P. % = Fixed Cost x 100

Fixed Cost + Net Profit

= <u>48,70,000 x 100</u>

48,70,0000 + 69,54,000

= <u>48,70,000 x 100</u>

1,18,24,000

= 41.18 %

P.P. PAINT CONTRAINERS – HALF LTR. TO 20 LTRS.

1. <u>INTRODUCTION</u>

Paint containers are the packaging medium used for storage, handling and distribution of paints. It consists of a container, lit and a handle, which are made from Polypropylene (PP) & High Density Polyethylene (HDPE). However, this profiles is based on Polypropylene. These are made by injection moulding process, giving a single piece seamless bottom and pilfer proof design. Generally P.P. Copolymer (PPCP) is used for paint containers. It offers many advantages over conventional tin containers like light weight, good aesthetic appeal, better stackability, rust and dent free, scratch proof, reusability, sturdy handles etc.

resulting in a better performance and the best shelf appeal to the customer.

The plastic containers are usually produced in the range of ½ ltr. to 20 ltrs. Type of closures vary depending upon size of article and mould design but can be plug type or positive seal. The walls of containers are non-tapered and hence it is easy to wrap a label or have direct printing.

2. MARKET POTENTIAL

The total installed capacity of paint containers in the country is more than 1000 tons P.A. Hence there is good requirement for Plastic Containers, which are replacing the traditional metal containers. With the increase in population and rise in standard of living, the demand for residential and office accommodation is rising in future, there will be good demand for the paints, which will be packed in the plastic containers.

3. BASIS & PRESUMPTIONS

- (i) The output capacity is taken as 100 Kgs/hr. The unit will work at 20 hrs. per day for 25 working days in a month and 300 days in a year. The output capacity may vary from machinery to machinery and the cost of machinery may also vary from supplier to supplier.
- (ii) The time period for achieving the full envisaged capacity utilisation is six months
- (iii) The labour wages are as per the prevailing rates in the market
- (iv) The rate of interest for fixed and working capital is taken as 12 per cent
- (v) The margin money requirement for this project is 30 per cent
- (vi) The pay back period of this project is 5 years

- (vii) The rate of land is taken @ Rs. 500/-per sq. mtr. and construction charges are taken @ Rs. 3500 per sq. mtr. This may also vary from place to place.
- (viii) The present profile has to be updated taking into prevailing cost of land, building, machinery etc. at the time of implementation of the project

4. <u>IMPLEMENTATION SCHEDULE</u>

The Time requirement for preparation of Project report : Two

months

Time requirement for selection of Site : One month

Time required for registration as Small Scale Unit : One

Week

Time required for acquiring the loan

Machinery procurement, erection and commissioning: Three months

Recruitment of labourer etc. : One month

Trial runs : One month

5. TECHNICAL ASPECT

MANUFACTURING PROCESS

The containers are manufactured by the usual injection moulding process. Raw materials are fed in the injection moulding machine, where it is plasticized and then injected into the special mould of the container. Product is allowed to cool within mould and then ejected. The real expertise lies in the post forming operation, which is performed on the container. There is a curing time of 45 minutes between moulding and post forming stage, which is carried out in cold operation. Firstly the edges of the containers are folded in wards. In the sizing the outside diameter (OD) of the container is sized upto the final diameter required by using tapered Teflon bush alongwith the vacuum pressure. The sizing

OD is always a few mm less than the final OD required as there is some spring back in the OD after sizing is done. Spring back varies for different raw materials and also with climate. Handle holes are punched on the container for handle. Then these are stored for 24 hours. Heat treatment is given on the surface of the

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container by using LPG gas then to prepare for printing. Printing is then done by screen printing process for 3 colours and if four colours required it can be done by dry off set printing. Various tests are also carried out before selling.

6. QUALITY & STANDARD

Paint Containers can be manufactured as per IS: 2798: 1964 & 1992 or as per customers' specification

7. **PRODUCTION CAPACITY** (Per Annum)

(a) Quantity (M.T.) : 600

(b) Value (Rs.) : 6,30,00,000.00

8. TOTAL POWER REQUIREMENT

Total connected load (KW) : 265

9. POLLUTION CONTROL MEASURES

The unit does not create any pollution. However, a proper ventilation should be made in the processing area for the better circulation of the fresh air.

10. ENERGY CONSERVATION

Entrepreneurs may select energy efficient machinery and proper planning has also to be made for saving energy in the unit.

11. FINANCIAL ASPECT

A. FIXED CAPITAL

i) <u>LAND & BUILDING</u>: Area sq. mtrs. Rate Rs. per Sq. mtr.

(Rs.)

Land 500 300 1,50,000.00

Building 100 3500

3,50,000.00

Total:

5,00,000.00

ii) <u>MACHINERY & EQUIPMENT</u>:

Sr. No. <u>Description of machines</u> <u>Oty.(Nos.)</u>
(Rs.)

(a) Production Unit

i) Injection Moulding Machine 180 M.T. Cap. 01

40,00,000.00

ii) Injection Moulding Machine 350 M.T. Cap. 01

60,00,000.00

iii) Chilling Plant 01

4,00,000.00

iv) Scrap Grinder 01

1,00,000.00

v) Moulding Lifting arrangement 01

2,00,000.00

vi) Compressor 01

1,00,000.00

- (b) Testing Equipment & Other Accessories 2,00,000.00
- (c) Electrification & Installation @ 10% of cost & machinery 11,00,000.00
 (a) & (b)
- (d) Pre-operative expenses 1,00,000.00

Total cost of machinery & equipment (a to d)

1,22,00,000.00

(e) Cost of Moulds & Dies

7,00,000.00

(f) Cost of Office Equipment/Furniture/Computers etc. 3,00,000.00

Total:

1,32,00,000.00

Fixed Capital (i) + (ii) = 15,00,000 + 1,32,00,000 =

1,37,00,000.00

B. WORKING CAPITAL

i) Staff and Labour (Per Month)

Designation	Nos.	Salary (Rs.)	(Rs.)		
Production Engineer/Manager	01	12,000			
12,000.00					
Sales Executive	01	8,000	8,000.00		
Accountant-cum-Store Keeper		01 5,000			
5,000.00					
Watchman	02	3,000	6,000.00		
Skilled Workers	03	4,000	12,000.00		
Helpers	03	3,000	9,000.00		
			-		

5,200.00	Add pe	rquisite @ 10% of the Sa	ılary				
			Total:			57,200.00	
				Or Say		57,000.00	
ii)	Raw	<u>Material</u> (Per Month)	Qty. (Ton	ies) l	Rate Rs/	kg.	(Rs.)
37,50	P.P. (0,000.0	Granules 00	50 M.T.		75,000		
iii)	<u>Utilit</u>	ies (per month):			(Rs.)		
	a)	Power			3,	97,50	00.00
		(60% utilisation x 265 kg	<w 500="" h<="" td="" x=""><td>rs. x Rs</td><td>s. 5 per</td><td>unit)</td><td></td></w>	rs. x Rs	s. 5 per	unit)	
2,500.00	b)	Water					
				Total:	4,	00,00	00.00
iv) (Rs.)	Othe	r Contingent Expenses (F	Per month)				
	kkk)	Repairs and Maintenand	e				
		2,000.00					
	III)	Transportation Charges				5,00	00.00
	mmn	n) Postage and static	onery				
		1,000.00					
	nnn)	Telephone/Fax/Compute	er				
		2,000.00					

ooo) Consumable Stores 1,000.00 ppp) Advertisement & Publicity 3,000.00 10,000.00 qqq) Insurance Miscellaneous Expenses rrr) 1,000.00 _____ Total: 25,000.00 12. **TOTAL WORKING CAPITAL** (Per Month) (Rs.) Staff and Labour 57,000.00 i) ii) Raw Material 37,50,000.00 iii) Utilities 4,00,000.00 Other Contingent Exp. iv) 25,000.00 ---------Total: 42,32,000.00 ----Working Capital for 3 months 1,26,96,000.00 114 13. **TOTAL CAPITAL INVESTMENT** (Rs.) Fixed Capital 1,37,00,000.00 B. Working Capital for 3 months 1,26,96,000.00 Total: 2,63,96,000.00 -----FIANCIAL ANALYSIS 14. (Rs.)

(a) **Total Recurring Cost** 5,07,84,000.00 Depreciation on building @ 5% (b) 17,500.00 Depreciation on machinery& equipment @ 10% (c) 12,20,000.00 Depreciation on Dies, Moulds & Office equipment (d) 2,80,000.00 @ 20% Interest on total Capital Investment @ 12% 31,67,520.00 Total: 5,53,89,020.00 Or Say Rs. 5,53,89,000.00 Sales/Turn over (per year) Qty.(MT) Rate (MT) alue <u>Item</u> (Rs.) P.P. Paint containers 600 1,05,000.00 6,30,00,000.00 ½ Ltr. to 20 ltrs. C. Net Profit (Per year) Cost of Production (Rs.) Profit (Rs.) Sales(Rs) -5,53,89,900 76,11,000.00 6,30,00,000 = D. Net Profit Ratio Net Profit x 100 Sales $76,11,000 \times 100 =$ 12.1 % 6,30,00,000 Ε. Rate of Return Net Profit x 100 Total Capital Investment 76,11,000 x 100 28.33 % = 228

Cost of Production (per year) (300 days)

Α.

2,63,96,000

F. Break-even Point

Fixed Cost (Per Year)

(Rs.)

- a) Depreciation on Building @ 5%
- 17,500.00
- b) Depreciation on Machinery & Equipment @ 10%
- 12,20,000.00
- c) Depreciation on Moulds/Dies & Office Equipment
- 2,60,000.00
 - @ 20%

d) Insurance

1,00,000.00

- e) Interest on total capital investment
- 31,67,500.00
- f) 40% of salary and wages
- 2,73,600.00
- g) 40% of other contingent expenses
- 72,000.00

Total: 51,10,620.00

Or say Rs. 51,11,000.00

Net Profit (Per Year)

B.E.P. % = Fixed Cost x 100

Fixed Cost + Net Profit

= <u>51,11,000 x 100</u>

51,11,000 + 76,11,000

= <u>51,11,000 x 100</u>

1,27,22,000

= 40.17 %

MACHINERY & EQUIPMENT SUPPLIERS

1) **A-ONE ENGINEERING**

71/2 Phase - 1, GIDC Vatva, Ahmedabad-382 445

Phone: 079-25834843Fax: 079-25834843 E-mail: aoneengineering@rediffmail.com

Web: www.aoneengineering.com

Products/Services: Plastic Processing machinery (Bag making machine)

2) A ONE INTERNATIONAL

11, Amar Estate, Anil Starch Road,

Opp: Super Bread Factory,

Naroda Road, Ahmedabad-380 025.

Phone: 079-22201482/22201861 Fax: +91-79-22203684

E-mail: aonead1@sancharnet.in Web: http: \\www.newyesh.com

Products/Services: HDPE/PP Woven Sack Machinery:

- 1) High speed 4,6 &8 shuttle circular looms
- 2) High speed magnetic type cheese winders
- 3) Flexographic printing machines
- 4) Bale Press Machines
- 5) Sutli Plant
- 6) Sutli Monofilament box strapping & all types of winders
- 7) Spares for all the above

3) AMBICA PLASTIC MACHINERY MANUFACTURERS

1-2, Kansawala Estate, Opp: Chakudia Mahadev,

Rakhial, Ahmedabad-23. (Guj.) INDIA

Phone: (O) +91-79-2274 5089, 6512 6275 Fax: +91-79-2278 2613

Cell: 098251 57891, 092274 48246

E-mail: info@ambicaplastic.com/ambica_kalpesh@hotmail.com

Web: www.ambicaplastic.com

Products/Services: Reprocessing/H.D.P.E. Monofilament/P.P. Tap

Plants

Sutli Plant with "T" Die HDPE/P.V.C. Pipe Plant

Tubing Plant

Ancillary Equipments

PP/HDPE Rope Machinery

Box Strapping Plant

Jerry Can Plant

4) CENTRAL MACHINERY &PLASTIC PRODUCTS

1, Lajya Estate, Mogra Road, Andheri East, Mumbai-400 069.

Phone: +91-22-28366198 Fax: +91-22-28375271

E-mail: cmp@bom3.vsnl.net.in Web: www.cmppin.com

Products/Services: Manufacturers of fully automatic blow moulding Machines for processing of PVC, HDPE, LDPE, PP materials from 5 ml. to

60 Itrs.

5) **DYNAMIC ENGINEERS (INDIA)**

B-54, Hari Nagar (Clock Tower),

New Delhi-110 064.

Phone: 011-25496293/25126188

E-mail: dynamicengineers@trade-india.com

Products/Services: Cooling Tower, Heat Exchanger, Indl. Chiller,

Mould Temp. Controller

6) FERROMATIC MILACRON INDIA LTD.

92 Phase – I GIDC, Vatva, Ahmedabad-382 445

Phone: 079-25890081 Fax: 079-25830125

E-mail: sales@fmi-ahd.com Web: www.milacronindia.comm

Products/Services: Mfg. of plastics injection moulding machines from

the

Range of 30 tons to 3000 tons and extrusion blow moulding machines.

7) **FIVE STAR ENGINEERS**

Bhagwati Estate, Opp: Bavri Kumbharwada, Idgah Road, Pratapnagar, Baroda-390 004.

Phone: (F) 0265-2581698 Telefax: 2580026 (R) 0265-2564896

(M) 098980 87865 E-mail: fivestarengineer@hotmail.com

Web: www.fivestarengineers.com

Products/Services: Double Die Extruder, Single Die Extruder

8) **FIXOPAN MACHINES PVT. LTD.**

71, Nehru Place, New Delhi-110 019

Phone: 0129-2237212/5067210-12 Fax: 0129-2237672

E-mail: roto@fixopan.net/sales @fixopan.net

Web: www.fixopan.net

Products/Services: Manufacturers of Rotomoulding machines,

Pulverisers.

Molds in cast aluminium/SS/MS, finished roto parts/planters.

9) **GUJARAT MACHINERY**

Plot No. 524, GIDC Phase II, Vatva, Ahmedabad-382 445.

Phone: +91-79 25830043 Fax: 079 25332439

E-mail: intek@icenet Web: www.gujaratmachinery.com

Products/Services: Plastic machinery viz: Wide Width Lamination

Plants.

10) **JAGMOHAN INDUSTRIES**

115 Sharad Industrial Estate, Lake Road, Bhandup (West),

Mumbai-400 078.

Phone: 25950246 Fax: 25965434

E-mail: jagmohan@vsnl.com Web: www.jagmohan.com

Products/Services: Plastic Automatic Blow Moulding Machine from

100 MI to 1000 Ltrs.

11) **JAI MATA ENGINEERING**

No. 734, Rajagopalanagar, B/h Maruti Theatre,

Peenya 2nd Stage, Bangalore-560 058.

Phone: 080-6763 4323 Cell.: 093437 33300, 098862 14330

Products/Services: Single Decker Cutting & Sealing Machine,

Double Decker

Cutting & Sealing Machine, Point to Point Cutting & Sealing Machine, Pouch Making Machine for Carry Bags, Slide Sealing Machine, Polyethylene/PP/HM/LLDPE Extruders, reprocessing Units, Automatic Roll Winding Nes, Scrap Grinders, Colour Mixer/Driers Card Making (sutli) Machine, Rotogravure Printing Machine, Automatic Liquid – Fill & Seal Machine, Automatic Form – Fill & Seal Machine, Thermoforming Machine, Seat Plant & Die.

12) KABRA EXTRUSIONTECHNIK LTD.

Kolssite House, Veera Desai Road, Andheri (West), Numbai-400 053.

Phone: 26734822/24 Fax: 267335041

E-mail: sales@kolsitegroup.com Web: www.kolsite.com

Products/Services: Twin screw extruders for RPVC pipes/profiles/pellets

high output single screw extruders for PO pipes raffia tape plants &

cheese winders monolayer & multilayer film plants.

13) KONARK PLASTOMECH PVT. LTD.

Plot No. 81, GIDC, Odhav, Ambica Nagar Road, Ahmedabad-382 415.

Phone: 079-22281670 Fax: +91-79-22890874

E-mail: sales@konarkplasticmachinery.com

Web: www.konarkplastomech.com

Products/Services: Mfrs. Thermoplastic extrusion plants.

14) LARSEN & TOUBRO Itd.

LTM Business Unit, Mount-Poonamallee Road,

Post Bag No. 990, Chennai-600 089. Phone: 22497360 Fax: 044-22492471

E-mail: vpb@ltmindia.com Web: www.ltmindia.com

Products/Services: Injection Moulding Machines, Auxiliary Equipment

15) **LOHIA STARLINGER LIMITED**

D-3/A, Panki Industrial Estate, Kanpur-208 022.

Phone: +91-5112-282001 Fax: +91-5112-282205

E-mail: sales@lohiagroup.com Web: www.lohiagroup.com

Products/Services: Complete range of Machinery for manufacture of PP and HDPE Woven sacks and Fabrics comprising of – Tape Extrusion Lines – High Speed Inverter controlled Tape Winders – Circular Weaving Machines – Fabric to Bag Conversions Machines – Compact PP

Multifilament Spinning Machine.

16) **MACPLAST**

49, Shreenathji Estate, Nr. Panna Estate, B/h B.O.C. Gases,

Rakhial, Ahmedabad-380 021 (Guj.) INDIA

Phone: (F) 079-22746802

E-mail: macplastbp@hotmail.com/macplastbp@rediff.com

Products/Services: Multi Layer Film Plant, Two Layer PPTQ Blown Film

Plant,

Twin Head Mono Layer Blown Film Plant, Sutli Plants, Box Strapping Plants, LDPE Kisna Pipe Plants, HDPE Plants, Reprocess Plants,

Woven Sacks Tape Plant.

17) MAMATA BRAMPTON ENGINEERING PVT. LTD.

5/1/1A/1, GIDC, Phase-1, Vatva, Ahmedabad-382 445.

Phone: 079-55309800 Fax: 079-25832026

E-mail: info@mamata.com

Products/Services: Multilayer co-ex blown film plant

18) MAMATA MACHINERY PVT. LTD.

5/1/1A, GIDC Estate, Phase-1, Vatva, Ahmedabad-382 445.

Phone: 079-55309800 Fax: 079-25832026

E-mail: info@mamata.com Web: www.mamata.com

Products/Services: Plastic Bag & Pouch making machine, Packaging

machines.

19) **NEOPLAST ENGINEERING PVT. LTD.**

43, GIDC Estate, Phase-1, Vatva, Ahmedabad-382 445.

Phone: +91-79-25831185 Fax: +91-79-25835298

E-mail: info@neoplastindia.com Web: www.neoplasstindia.com Products/Services: Complete compounding plant with automation, High speed heater cooler mixers, Single screw extruders, Super conical twin screw extruders, Down stream equipments for R PVC pipe, profile, pelletizing application, Under water pelletizing system, Air cooled die face pelletizing system, Material handling system, Liquid metering/Dosing system, Anti-dusting/de-gassing system, Labaoratory scale equipments like – lab mixer, single screw extruder with various attachments, two roll mill, hydraulic press.

20) PANCHAL PLASTIC MACHINERY P. LTD.

Plot No. 127, GIDC, Umbergaon, Dist. Valsad-396 171

Phone: 0260-2563391/92 Fax: 0260-2562892

E-mail: panchal@panchal-plastic.com Web: www.panchal-plastic.com Products/Services: Agglomerator/Densifier machine – extruder (Single Screw & Twin Screw) – Blown Film Plant – Box strapping plant, Flat Film & Sheet – Pipe & Profiles – Grinder/shredders/Crushers – Compounding Plant – Re-processing/recycling Plant – Hot die-face cutting under air & water cooling – in-line recycling plant for film waste & lumps waste – Mixer (type-high speed, tumbler, vertical) – strand pelletizer – Screen changer (Hydraulic & manual) – Grinding, washing & drying plant for PET bottle, film waste & moulded article, PET-recycling plant-bags/sacks cutting & sealing machine.

21) R.R. PLAST EXTRUSIONS PVT. LTD.

B-3, Nand Jyot Ind. Estate, Safed Pool, Sakinaka, Andheri-Kurla Road, Andheri (E), Mumbai-400 072.

Phone: +91-22-2852 0396/2850 5208 Telefax: 2850 9603 Cell: 9967023161 E-mail: rrengg@vsnl.net/mkt@rrengg.com

Web: www.rrengg.com

Products/Services: RR's Drip Irrigation Pipe Plant with Auto Coiler

22) RAJOO ENGINEERS LIMITED

Survey No.210, Plot No.1, Industrial Area

Veraval Shapar, Rajkot-360 002.

Phone: 0091-2827-252701/2 Fax: 0091-2827-252700

E-mail: rel@rajoo.com Web. www.rajoo.com

Products/Services: FOILEX:Monolayer Blown Film Lines for PE/PP/PVC. MULTIFOIL: Multilayer Upward Extrusion Blown Film Lines. AQUAFLEX: Multilayer Downward Extrusion Blown Film Lines. LAMINA: Mono & Multilayer Sheet Lines for PS/PP/PET/LDPE. DISPOCON: Thermoformers for PS/PP/PET. TWINEX: Single and Twin Screw Lines for pipes and profiles. HDPE permanently lubricated duct plant for optical fibres including nylon rope insertion.

23) **RANA & SONS**

Plot No. 128-A, Govt. Ind. Estate, Charkop Kandivali West,

Mumbai-400 067.

Phone: 28683897/4181 Fax: +91-22-28682244 E-mail: ranasons@vsnl.com/arun@bom7.vsnl.net.in

Web: www.ranasons.com

Products/Services: Blow Moulding Machine, Injection Moulding Machines,

PET Stretch Blow Moulding Machines.

24) REMICA PLASTIC MACHINERY MANUFACTURERS

2/AB Sardar Patel Ind. Estate, Near Gujarat Petrol Pump, Narol. Ahmedabad-382 405.

Phone: 079-25712741 Fax: 079-25714234

E-mail: remicaad1@sancharnet.in Web. www.remicaplastics.com Products/Services: Manufacturers of Thermoplastic Extrusion Plants for

inductor of the moral control of the moral control

Tapeline, Circular Looms, Extrusion Lamination Plants.

25) STAR FLEX INTERNATIONAL

A-43, Street No. 7, Anand Parbat Industrial area,

New Rohtak Road, New Delhi-110 005.

Phone: +91-11-2876 5588 Telefax: +91-11-2876 5588

Mobile: 093111 45588, (TATA) 092135 02930

Products/Services: High Class Flexographic/Rotogravure Printing

Machine.

26) SUNRISE PLASTIC MACHINERY MANUFACTURER

B/21-22, Ambica Estate, Ambikanagar, Nr. Hanuman Temple,

Odhav, Ahmedabad-382 415 (Guj.) INDIA.

Phone: (O) 079-65137486

Cell: 098253 58581, 098256 15776, 098793 01422 E-mail: joshi_sunriseplasticmachinery@yahoo.co.in

Web: www.sunriseplastic.tradeindia.com

Products/Services: 'T' Die Sutli Plant, PP/HDPE Mono Filament Plant, PP/HDPE Box Strapping Plant, PP TQ Blown Film Plant, HM/LD/LLDPE Mono Layer, Blown Film Plant, Multilayer Blown Film Plant, Lamination Plant, Air Bubble Sheet Plant, PP/HDPE/Rigid PVC Pipe Plant, PP/HDPE Woven Sacks Plant, Reprocess Plant.

27) TWIST ENGINEERING WORKS

C/1, 4410, Phase-4, G.I.D.C. Estate, B/h Indo-German Tool Room, Vatva, Ahmedabad-382 445 (Guj.) INDIA

Phone: (O) 079-25842878, 30913587 Fax: 079-25840429

E-mail: twist@sancharnet.in, twist24@rediffmail.com

Web: www.twistplasticmachinery.com

Products/Services: Extrusion Plants for – Rigid PVC, HDPE, HM/HDPE, LLDPE, LDPE and PP Blown Film Plant, Above Plants with Rotating Extruder/Rotating Die, Pipe, Casing Caping, Section & sleeve Plants for PVC/HDPE PP & PP-R, PVC Braided & Suction Hose Multilayer Co-Extrusion Film Plants, Plastic Sheet Plant with Teedie & Steel Polishing Stack, PVC Wire/Cable Plant & Spool Drum/Winder, PVC Compounding Plant with Die-Face Cutter & Reprocessing Plant, PP/HD Box Strapping Plant, Rafia Tape Plant, Scrap Grinder and Agglomerater, Special Specification Plants on request & Extruders with 'Realloy' Barrel, LD Foam Film Plant, Automatic Pipe Cutter, High Speed Mixers & Heater-Cooler Mixers.

ANNEXURE - II

Web:

RAW MATERIAL SUPPLIERS

1. BASF STYRENICS PVT. LTD.

RBC Mahindra Towers

5th Floor B-Wing, Dr. G.M. Bhonsale Marg

Worli, Mumbai - 400 018

Phone: 55618227 Fax: 56604073

E-mail: <u>ramanamv@basf-india.co.in</u> Web: <u>www.basf.com</u> Products: ESCR Polystyrene, ABS, SAN, MABS, ASA Blends etc.

2. BAYER MATERIAL SCIENCE PVT.LTD.

Building D-527, Kolshet Road, Thane – 400 607 Phone: 91-22-25311297/285 Fax: 25455069

E-mail: <u>plastics@bayerbms.com</u>

www.bayermaterialscience.com

Products: Polycarbonate (PC) PC Films & PC Sheets, PC Blends

3. DOW CHEMICAL PACIFIC (SINGAPORE) PTE LTD.

260 Orchard Road, # 18-01, The Heeren, Singapore - 238855

Phone: (65) 68353773 Fax: (65) 68340320

E-mail: dowcig@dow.com Web: www.dowplastics.com

Products: Polyethylene resins, Polystyrene, Polypropylene, Engineering Thermoplastics, Elastomers and Speciality Products, and

Wire & Cable Compounds.

4. DSM ENGINEERING PLASTICS INDIA (P) LTD.

"Ashirvad" 110/12 Erandawane

Lane No. 14 Income Tax Lane, Off Prabhat Road

PUNF - 411 004

Phone: 020-25461075/39506264 Fax: 020-25455259

E-mail: joydeep.sen-chaudhuri@dsm.com Web: www.dsmep.com Products: Stanyl (PA 4,6) Amite (TPE-E), Akulon (PA 6, pa 66), Amite

(PBT, PET and blends)

5. **GE PLASTICS INDIA**

8th Floor, Gateway Towers, DLF – III, NH – 8

Gurgaon – 122 002

Phone: 0124-5018001 Fax: 0124-5018019

E-mail: <u>rk.arora@ge.com</u> Web: www.geplasticsindia.com Products: Polycarbonate – Lexan, PBT – Valox, PPO – Noryl.

6. **GHARDA CHEMICALS LTD.**

Plot No. 3525 – 26 – 27, GIDC Estate, Panoli

Dist. Bharuch, Gujarat - 394 116

Phone: 02646 - 272575 /6 Fax: 02646 - 272141

E-mail: Polymer@gharda.com Web: www.ghardapolymers.com

Products: Polymers PEEK, PEK, PES, PSS, PPSU, PSU

7. HALDIA PETROCHEMICALS LTD.

1, Auckland Place, Kolkata - 700 017

Phone: 033-22831640/3/5 Fax: 033 - 22831654

Web: www.haldiapetrochemicals.com

Products: LLDPE, HDPE, PP, Benzene, Butadiene, MS Euro III, LGP, PY

Gas, Cyclopentane.

8. INDIAN OIL CORPORATION LIMITED

Scope Complex, Core-2, 7 Institutional Area

Lodhi Road, New Delhi - 110 003

Phone: 011-24360214 Fax: 011 - 24367548

E-mail: khuranavk@iocl.co.in Web: www.indianoilcorp.com

Product: PP- 600 KTA, HDPE - 300 KTA, hdpe/lldpe - 350 KTA, MEG -

300 KTA, PTA - 553 KTA.

9. J.P. POLYMERS PVT. LTD.

3, Shram Laxmi Industrial Est.

Opp. Indiana Bakery, Kanchpada, Ramchandra Lane Extn. Road.

Malad (W), Mumbai - 400 064.

Phone: 56998881 - 84 Fax: 56998887

E-mail: mail@jppolymers.net

Products: Polycarbonate (Dupont), Nylon'6, Nylon'66& PBT 9SRF),

Acylic-PMMA (Sumitomo), K-Resin (Philips), Transparent ABS (Toray),

POM, UHMW-PE, ABS & SAN

10. **RELIANCE INDUSTRIES LTD.**

Maker Chambers-IV, Nariman Point, Mumabi - 400 021

Phone: 30322100 Fax: 30322199

E-mail: tushar roy@ril.com Web: www.ril.com

Products: Polymers, Chemicals, Fibers & Intermediates

11. SUPREME PETROCHEM LTD.

17/18, Shah Industrial Estate, Veera Desai Road

Andheri (West), Mumbai – 400 053. Phone: 26736196 – 99 Fax: 26736203

E-mail: <u>sharad_parate@spl.co</u>. on Web:

www.supremepetrochem.com

Products: Crystal Polystyrene, Impact Polystyrene, ESP, Modified Polyestyrene, Flame Retardant and Antistatic Polystyrene, Color and Additive Masterbatches, Polyolefinic Compounds.