



It's Time you should start your own

# Plastic Optical Lenses

Manufacturing Business





#### Introduction

A lens is a transducer that focuses or diverts light or other electromagnetic radiation. A plastic optical lens (PO lens) is a transparent polymer medium used to form images for viewing, either directly, by an eyepiece, or indirectly using a projector.

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<u>Plastics and Polymers Industry</u>





Polymer plastic optical lenses are lighter and more economical than glass lenses. They also have greater resistance to high-energy radiation such as X-rays and gamma rays. Polymerization may be effected in bulk, yielding simple hemispherical lenses known as plano-convex or meniscus elements;





In thin films on a substrate, giving rise to thin meniscus or thick plano-convex elements; or in thin films on molded surfaces, leading to many different shapes having continuously varying curvature from flat to dome shapes.

Read our Books Here: Plastics and Polymers, Polyester Fibers, Pet & Preform, Medical, Expanded Plastics, Polyurethane, Polyamide, Polyester Fibers, Additives, Colourants and Fillers, Extrusion, Moulding, Mould Designs, Optical Glass, Reinforced, Films, HDPE, Thermoset





In contrast to optical glasses and crystalline plastics (PMMA), which transmit visible light approximately equally in all directions, polymer lenses concentrate their transmission into a relatively narrow main beam with some spherical aberration. This effect is desirable when imaging concentrated sources such as solar thermal collectors.





#### **Applications**

The plastic optical lenses are used to refract and bend light. The applications include sunglasses, computer screens, microscopes, fiber optics, LEDs and many more. Their essential role is to reduce glare while allowing sufficient light through.

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They can help cut down on eye strain from bright sunlight and monitor screens by providing a slightly darkened area for reading text. They also increase energy efficiency in lighting by limiting heat transfer when reflected off surfaces or through windows. Further applications are found in camera phone cases and cell phone lens replacements.





Various scientific uses include highpower microscopy illumination objectives as well as low-power ophthalmic devices such as contact lenses and intraocular lenses that correct vision problems. Most often they form part of pincushion, barrel or doublet magnifiers,

Business Plan: <u>Manufacturing Business of Plastic Optical</u>
Lenses





including bioptic telescope systems used by people with poor eyesight that magnify images greatly but have other inherent deficiencies. They may be spherical, cylindrical or toroidal sections of varying focal lengths; these shapes minimize aberrations caused by edge diffraction and provide maximum transmission through combination with complementary phase compensating lenses.





Preform and final processing are the two stages of the plastic optical lens manufacturing process. Preforms are made in a variety of shapes and sizes at big plastic extrusion plants. Raw material qualities influence optical quality, whereas technology





(flow rate, temperature, barrel length) and processing conditions influence their attributes during subsequent processing (running speed). Plastic lenses are commonly injection-molded using small to medium injection moulding machines with a two-part clamping system once they have been formed.

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Medical Disposables, Disposable Medical Products used in Hospitals





As a result, incredibly low-cost products are produced. One significant benefit is that optics can be treated immediately after moulding. Polycarbonate is a common optically transparent resin because it has a strong mechanical stability even when exposed to the elements.

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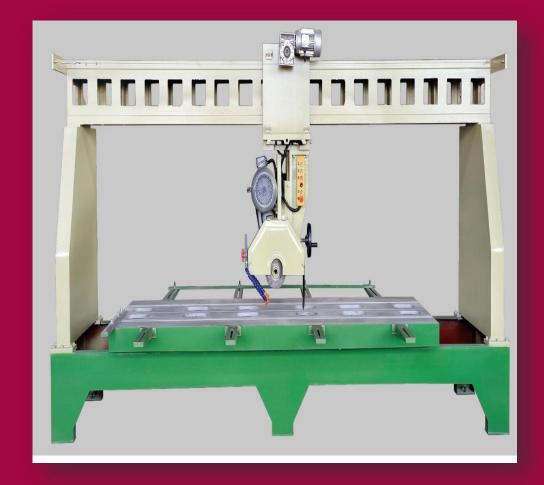


### **Machinery Photographs**

### INJECTION MOLDING MACHINE



#### **CUTTING EDGE MACHINE**





## LENS CLEANING MACHINE



#### MOULD CLEANING MACHINE



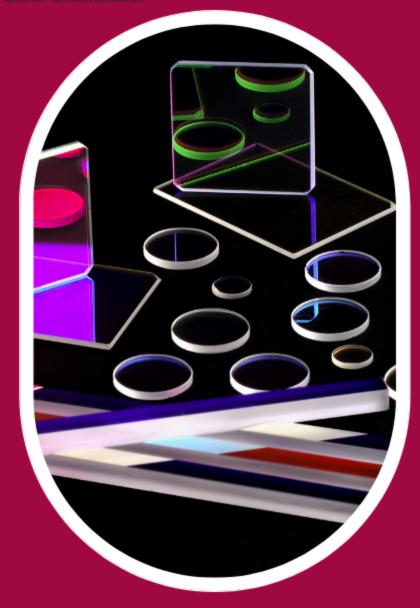




#### Market demand

Optical Lens Market size worth \$ 25,868.81 Million, Globally, by 2028 at 7.33% CAGR. The optical lens market is predicted to grow rapidly in the coming years, owing to the increasing use of convex and concave lenses in the automobile industry. Increasing sales of passenger vehicles, commercial vehicles,...





and off-road vehicles are driving market expansion, thanks to rising population, living standards, rising rising disposable income, expanding interstate trade, and expanding building and mining operations. The optical lens is widely used in automobile vehicles for mirrors and headlights, paving the way for the optical lens industry.





Plastics is a well-known material used manufacture optical lenses eyeglasses, sunglasses, etc. The market for such products is growing rapidly and is expected to be USD 45 billion by. Due to increasing awareness about health hazards associated with long term use of glasses that are made from polycarbonate or other substances,...



there has been a significant rise in demand for plastic optical lenses which are not only lighter and more affordable but also safer than glass optical lenses. Though their manufacturing costs are higher as compared to those made out of polycarbonate, nevertheless they offer both style and comfort due to their premium nature, high durability and ability to provide wide vision angles.



Companies operating in the global market have taken advantage of these aspects and have seen an increase in their revenues over time because people spend considerable amounts on clothes and accessories just like lenses. Growing awareness regarding safety issues, lifestyle changes brought forth by urbanization & globalization and rising disposable income has further fueled growth in demand for plastic lenses around the world. Currently, Asia Pacific dominates worldwide sales followed by North America.



#### **Key Players**

- Appasamy Ocular Devices Pvt. Ltd.
- Bausch & Lomb India Pvt. Ltd.
- Eagle Optics Pvt. Ltd.
- Essilor India Pvt. Ltd.
- G K B Hi-Tech Lenses Pvt. Ltd.
- GKB Ophthalmics Ltd.



# Project at a Glance

cost o	F PROJECT	•		MEANS OF FINANCE						
Particulars	Existing	Proposed	Total	<b>Particulars</b>	Existing	<b>Proposed</b>	Total			
Land & Site Development										
Ехр.	0.00	65.00	65.00	Capital	0.00	368.20	368.20			
Buildings	0.00	105.00	105.00	Share Premium	0.00	0.00	0.00			
Plant & Machineries	0.00	1026.65	1026.65	Other Type Share Capital	0.00	0.00	0.00			
Motor Vehicles	0.00	12.00	12.00	Reserves & Surplus	0.00	0.00	0.00			
Office Automation										
Equipments	0.00	73.00	73.00	Cash Subsidy	0.00	0.00	0.00			
Technical Knowhow Fees &										
Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00			
				Long/Medium Term						
Franchise & Other Deposits	0.00	0.00	0.00	Borrowings	0.00	1104.60	1104.60			
Preliminary& Pre-operative				_						
Ехр	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00			
				Unsecured						
<b>Provision for Contingencies</b>	0.00	100.00	100.00	Loans/Deposits	0.00	0.00	0.00			
Margin Money - Working Capital	0.00	39.14	39.14							
•			33.14							
TOTAL	0.00	1472.80	1472.80	TOTAL	0.00	1472.80	1472.80			

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value		
	EPS	CEPS	Per Share		Per Share Per Sh		hare				No.of Times		
			•	•		%	•	%			%		
1-2	5.14	10.39	15.14	24.00	0.00	100.00	5.14	0.00	5.14	1.00	0.00		
2-3	7.47	11.97	22.61	18.00	0.00	100.00	7.47	0.00	7.47	1.00	0.00		
3-4	9.81	13.68	32.43	12.00	0.00	100.00	9.81	0.00	9.81	1.00	0.00		
4-5	12.14	15.47	44.57	6.00	0.00	100.00	12.14	0.00	12.14	1.00	0.00		
5-6	14.42	17.28	58.98	0.00	0.00	100.00	14.42	0.00	14.42	1.00	0.00		
					AN ISO 9001 : 2015 (	DCS CERTIFIED COMPANY							

Year	D			Debt / - Deposit s Debt		Net	Return on Net Worth	•						Curren t Ratio
	•	Cumulati ve	Overal I					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)		nes)	(Number of times)		%	%	%	%	%		%		
Initia I	(10011		,	3.00	3.00	76	74	70	~	70		70		
1-2	1.50	1.50		1.59	1.59	1.77		31.97%	19.13%	15.47%	932.97	76.22%	0.82	0.94
2-3	1.73	1.61		0.80	0.80	0.94		37.57%	27.71%	19.26%	1058.20	74.10%	0.91	1.59
3-4	2.01	1.74	2.02	0.37	0.37	0.48		41.36%	33.72%	22.14%	1208.65	74.06%	0.94	2.36
4-5	2.36	1.87		0.13	0.13	0.23		43.95%	38.02%	24.35%	1359.10	74.02%	0.93	3.25
5-6	2.77	2.02		0.00	0.00	0.08		45.71%	41.12%	26.03%	1509.55	74.00%	0.88	9.93
							PCS DIS CERTIFIED COMPANY							



**BEP** 

**BEP - Maximum Utilisation Year** 

Cash BEP (% of Installed Capacity)

Total BEP (% of Installed Capacity)

IRR, PAYBACK and FACR

Internal Rate of Return .. ( In %age )

Payback Period of the Project is (In Years)

Fixed Assets Coverage Ratio (No. of times)



37.11%

44.09%

2.796



#### Major Queries/Questions Answered in the Report?

- 1. What is Plastic Optical Lenses Manufacturing industry?
- 2. How has the Plastic Optical Lenses Manufacturing industry performed so far and how will it perform in the coming years?
- 3. What is the Project Feasibility of Plastic Optical Lenses Manufacturing Plant?
- 4. What are the requirements of Working Capital for setting up Plastic Optical Lenses Manufacturing plant?



- 5. What is the structure of the Plastic Optical Lenses Manufacturing Business and who are the key/major players?
- 6. What is the total project cost for setting up Plastic Optical Lenses Manufacturing Business?
- 7. What are the operating costs for setting up Plastic Optical Lenses Manufacturing plant?
- 8. What are the machinery and equipment requirements for setting up Plastic Optical Lenses Manufacturing plant?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Plastic Optical Lenses Manufacturing plant?
- 10. What are the requirements of raw material for setting up Plastic Optical Lenses Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Plastic Optical Lenses Manufacturing Business?
- 12. What is the Manufacturing Process of Plastic Optical Lenses?



- 13. What is the total size of land required for setting up Plastic Optical Lenses Manufacturing plant?
- 14. What will be the income and expenditures for Plastic Optical Lenses Manufacturing Business?
- 15. What are the Projected Balance Sheets of Plastic Optical Lenses Manufacturing plant?
- 16. What are the requirement of utilities and overheads for setting up Plastic Optical Lenses Manufacturing plant?
- 17. What is the Built up Area Requirement and cost for setting up Plastic Optical Lenses Manufacturing Business?



- 18. What are the Personnel (Manpower) Requirements for setting up Plastic Optical Lenses Manufacturing Business?
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- 29. What is the Plant Layout for setting up Plastic Optical Lenses Manufacturing Business?



#### **TAGS**

```
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## Our Approach

**Requirement collection** 

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

**Report Compilation** 

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- o Ayurvedic And Herbal Medicines, Herbal Cosmetics
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- Chemicals (Organic And Inorganic)
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- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
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- Leisure & Entertainment Based Projects
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- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- o Medical Plastics, Disposables Plastic Syringe, Blood Bags
- o Organic Farming, Neem Products Etc.
- o Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- o Printing Inks
- Packaging Based Projects
- o Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- o Plastic Film, Plastic Waste And Plastic Compounds
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- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable





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AN ISO 9001: 2015 CERTIFIED COMPANY



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