



PRINCE OPTICAL WORKS

Our Presence in the field of Optics Since 1955

Welcome to the wonderful world of optics
brought to you by

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Quality is not an incident, it is the result of intelligent efforts. There should be WILL to produce quality jobs. It requires initiative, hard work, team effort & management. We have always strived at delivering the best product and services to our valued customers & users. Therefore, in an effort to strength in our delivery services & support system. We would like to have the co-operation of all our valued customers. We would request you to kindly take out five minutes from your busy schedule and fill up a simple information on the customers registration cum enquiry form and mail us at the earliest. We have been really working very hard over the few years to comprehensively upgrade over customer relationship and management – capabilities.

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About us

Prince Optical Works manufacturing the optical components for Educational, Scientific, Astronomical, Audio – Visual, Medical, Ophthalmic Instruments, & Customized substrate for Projection Systems, laser , R & D and other's applications. The Company was founded in 1955 by Late Shri P.L.Papneja and now the company is owned and managing by his son Mr. C.M. Papneja with a stellar service record of over 37 years in the field of Optics, the company has built itself an impeccable reputation in Optical Components market. We are also a member of Instrument Design Development and Facilities Center, Ambala (India) Assisted AUNDP / UNIDO Hartron Project .

Our Specialties

We have in house facility for the complete manufacturing of optical components i.e. Simple Lens, Mirror, Prisms, Magnifiers, Glass Slabs, Eye Piece, Watch Glass, Reflectors, Newton Ring Apparatus, Diffraction Grating, Projection Lenses, Polaroid Disc, Color Filters, Air Wedge Plates, & Customized substrate .

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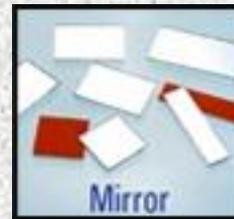
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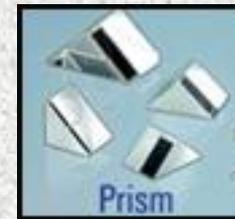
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Lens



Mirror



Prism



Magnifier



Glass Slab



Eye Piece



Watch Glass



Reflector's



Newton Ring Apparatus



Diffraction Grating



Projection Lens



Other Items

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Lens

- [Lens Simple](#)
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- [Lens Newton Ring](#)
- [Lens Set](#)
- [Lens Double Convex \(Eye Piece\)](#)
- [Lens Plano Convex \(Eye Piece\)](#)
- [Lens Plano Convex \(Condensor\)](#)

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LENS SIMPLE

Lens Simple

Simple Spherical Double Convex lenses having two out side curved parallel surfaces to each other and used for magnification and converging the light and having a positive focal length. Similarly Spherical Double Concave lenses having a negative focal length and two inwards parallel surfaces and diverging the light. Manufactured the lenses from tint plate glass, are highly polished and well edged.



Double Convex Lens



Double Concave Lens

[Size & Rate >>](#)

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Ready Stock Sizes are available as under.

	Diameter	Focal Length	Rate D/CX	Rate D/CC	Unit
(a)	38 mm	5 cm	Rs. 50.00	*****	Each
	38 mm	10 cm	Rs. 40.00	*****	Each
	50 mm	5 cm	Rs. 56.00	Rs. 74.00	Each
	50 mm	10 cm	Rs. 44.00	Rs. 54.00	Each
	50 mm	15 & 20 cm	Rs. 40.00	Rs. 46.00	Each
	50 mm	30 , 50 & 100 cm	Rs. 40.00	Rs. 46.00	Each
(c)	60 mm	15 cm	Rs. 60.00	Rs. 68.00	Each
	60 mm	20 cm	Rs. 60.00	Rs. 68.00	Each
(d)	75 mm	15 cm	Rs. 70.00	Rs. 120.00	Each
	75 mm	20 cm	Rs. 70.00	Rs. 120.00	Each
(e)	100 mm	20 cm	Rs. 120.00	*****	Each

The above rates quoted for exact Focal length lenses as per our standard. We have no regular quality lenses.

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Lens white glass:

White glass spherical double convex having two out side curved parallel surfaces to each other and used for magnification and converging the light and having a positive focal length and two inwards parallel surfaces and diverging the light. Manufactured the lenses from extra white glass, are highly polished and well edged.



Ready Stock Sizes are available as under.

	Diameter	Focal Length	Rate D/CX	Rate D/CC	Unit
(a)	50 mm	5 cm	Rs. 370.00	*****	Each
(b)	50 mm	10 cm	Rs. 330.00	*****	Each
(c)	50 mm	15 & 20 cm	Rs. 170.00	Rs. 220.00	Each
(d)	50 mm	30, 50 & 100 cm	Rs. 170.00	Rs. 220.00	Each

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i) Lens Newton Ring (Crown Glass):

Newton Ring lenses manufactured with optical crown glass having a one plain glass and one spherical plano convex lens of R.O.C. 100 and 50 cm, (i.e. Focal Length of 200 & 100 cm) to produce the Newton Ring's when applying pressure with the help of Apparatus

Ready Stock Sizes are available as under.

Size :	50 mm	60 mm	Unit
Rate :	Rs. 350.00	Rs. 460.00	Per Set



ii) Lens Newton Ring (Tint Glass):

Newton Ring lenses manufactured with optical quality Tint plant glass having a one plain glass and one spherical plano convex lens of R.O.C. 100 and 50 cm, (i.e. Focal Length of 200 & 100 cm) to produce the Newton Ring's when applying pressure with the help of Apparatus

Ready Stock Sizes are available as under.

Size :	50 mm	60 mm	Unit
Rate :	Rs. 100.00	Rs. 150.00	Per Set

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Lens Set:

Lens set consisting a set of six lenses, i.e. Plano convex, Plano concave, Double convex, Double concave, convexo concave and concavo convex, having R.O.C. 100 mm. Manufactured from plate glass are highly polished and well edged Packed in Velvet Box.



Ready Stock Sizes are available as under.

Diameter	R.O.C.	Rate	Unit
50 mm	100 mm	Rs. 400.00	Per Set

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Lens Double Convex: For Eye Pieces

Double convex lenses having two spherical out ward curved surfaces, parallel to each other with positive focal length made from optical Extra white glass to use in Eye pieces, excellent for simple Eye pieces for different scientific application.



Ready Stock Sizes are available as under.

	Diameter	D.P.	Focal Length	Rate	Unit
(a)	6.1 to 9.0 mm	+ 40	25 mm	Rs. 64.00	Each
(b)	9.1 to 12.0 mm	+ 40	25 mm	Rs. 70.00	Each
(c)	12.1 to 16.0 mm	+ 40	25 mm	Rs. 80.00	Each
(d)	16.1 to 20.0 mm	+ 40	25 mm	Rs. 100.00	Each
(e)	6.1 to 9.0 mm	+ 25	40 mm	Rs. 60.00	Each
(f)	9.1 to 12.0 mm	+ 25	40 mm	Rs. 60.00	Each
(g)	12.1 to 16.0 mm	+ 25	40 mm	Rs. 74.00	Each
(h)	16.1 to 20.0 mm	+ 25	40 mm	Rs. 84.00	Each
(i)	20.1 to 25.0 mm	+ 25	40 mm	Rs. 84.00	Each
(j)	20.1 to 25.0 mm	+ 20	50 mm	Rs. 60.00	Each

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Lens Plano Convex : For Eye Pieces

Eye Pieces Plano Convex lenses having one flat surface and one Spherical out ward curved surface with positive focal length made from optical Extra white glass to use in Eye Pieces, excellent for Ramsden, Huygen and other type of Eye pieces.



Ready Stock Sizes are available as under.

	Diameter	D.P.	Focal Length	Rate	Unit
(a)	6.1 to 8.0 mm	+ 100	10 mm	Rs. 90.00	Each
(b)	6.1 to 8.0 mm	+ 70	15 mm	Rs. 80.00	Each
(c)	6.1 to 9.0 mm	+ 40	25 mm	Rs. 70.00	Each
(d)	12.1 to 15.0 mm	+ 40	25 mm	Rs. 80.00	Each
(e)	15.1 to 20.0 mm	+ 40	25 mm	Rs. 100.00	Each
(f)	20.1 to 25.0 mm	+ 40	25 mm	Rs. 150.00	Each
(g)	9.1 to 15.0 mm	+ 20	50 mm	Rs. 70.00	Each
(h)	15.1 to 20.0 mm	+ 20	50 mm	Rs. 80.00	Each
(i)	20.1 to 25.0 mm	+ 20	50 mm	Rs. 90.00	Each

*** We can also make / process other lenses according to customers specifications .**

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Lens Plano Convex: For Condensing Purpose

Plano convex lenses having one flat surface and one spherical outward positive focal length, manufactured from tint plate glass as well as from whit glass used to condense the light and for others scientific applications.



Ready Stock Sizes are available as under.

	Diameter	Focal Length	Rate	Unit
(a)	100 mm	20 cm	Rs. 280.00	Pair
(b)	112 mm	15 – 20 cm	Rs. 400.00	Pair
(c)	125 mm	20 cm	Rs. 700.00	Pair
(d)	150 mm	30 cm	Rs. 800.00	Pair
(e)	150 mm	25 cm	Rs. 900.00	Pair
(f)	200 mm	40 cm	Rs. 6,000.00	Pair

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Mirror

- [Mirror Concave & Convex](#)
- [Mirror Plain](#)
- [Mirror Front End Coated](#)
- [Mirror Strip](#)
- [Mirror Lloyed](#)

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(a) Mirror Concave & Convex

Concave and Convex Mirror are process from the both optically true surface in Concave and Convex, having a Silver Coating on its back, with the protective layer of copper and led with the additional layer of epoxy paint, used in scientific applications for maximum reflectivity.



Ready Stock Sizes are available as under.

Sizes	50 mm	75 mm	100 mm	150 mm	Unit
Rate	Rs. 42.00	Rs. 86.00	Rs. 180.00	Rs. 500.00	Each

(a) Mirror Plain

Plain Mirror are process from the both optically true surfaces in Plain Plate glass having a silver coating on its back. With the protective layer of copper and led with the additional layer of epoxy paint, used in scientific applications for maximum reflectivity.



Ready Stock Sizes are available as under.

Sizes	50 mm	75 mm	100 mm	150 mm	Unit
Rate	Rs. 16.00	Rs. 34.00	Rs. 44.00	Rs. 130.00	Each

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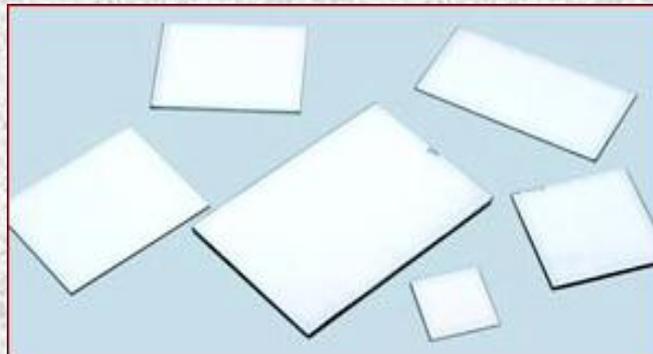
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(c) Front End Coated Mirrors : Front End coated Mirrors having Optical flat surface with Aluminium Coating on the first surface with the protective layer of Silicon Monoxide or Dioxide. And These Mirrors are manufactured as per customer specifications and quoted according to size thickness and quantity .

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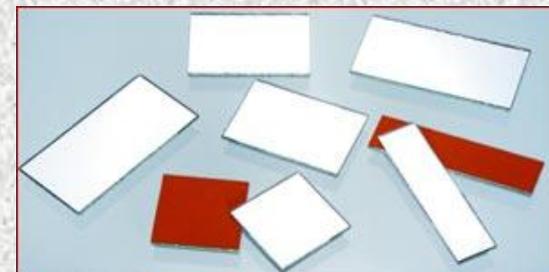


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(d) Mirror Strip : Mirror Strips are specifically process as per required sizes from optically true Plain Mirror, having a silver coating with the protective layer of copper and Led with the additional layer of epoxy paint, used in scientific applications for the reflection of light.



Ready Stock Sizes are available as under.

	Size (L x W)	Rate	Unit
(i)	100 X 25 mm	Rs. 700.00	Per 100 Pcs.
(ii)	75 X 50 mm	Rs. 1000.00	Per 100 Pcs.
(iii)	100 X 50 mm	Rs. 1,400.00	Per 100 Pcs.
(iv)	100 X 75 mm	Rs. 2,000.00	Per 100 Pcs.

(e) Mirror Llyod : Lloyd Mirror are used for the production of Interference fringes. It's having a single mirror mounted in rectangular frame fitted with flat polished black glass. So, that no reflection takes from the back of mirror. When the light from a monochromatic source strikes at grazing incidence to the mirror the Interference fringes can be seen.
Packed in Velvet Box



Ready Stock Sizes are available as under.

Item	Size	Rate	Unit
Superior Quality	35 X 120 mm	Rs. 800.00	Each

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Prism

- [Prism Equilateral Indian](#)
- [Prism Equilateral Extra White](#)
- [Prism Spectrometer](#)
- [Prism Hollow Spectrometer](#)
- [Prism Hollow Indian & Trough](#)
- [Prism with Different Angle](#)
- [Prism with Narrow Angle](#)
- [Prism Quartz](#)
- [Prism Fresnal Bi-Prism](#)
- [Prism C.D.S.](#)
- [Prism Right Angle](#)

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Prism :

Prism have three Surfaces and angles and used for different scientific application.

Prism Equilateral : Prism's Equilateral have three 60 degree angle's and also used to disperse the light also available in two type of glasses as per suitability of customer's as given here under.



Prism Equilateral (Indian)

Prism's Equilateral Indian Glass are manufactured from Indian Moulded glass having R.I. : 1.5 App. and used for pin method experiment. Available in Superior and Export quality.

Ready Stock Sizes are available as under.

	L X W X H	Superior Quality Rate	Unit
(i)	38 X 38 X 38 mm	Rs. 70.00	Each
(ii)	50 X 50 X 50 mm	Rs. 120.00	Each

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(b) Prism Equilateral Extra White :

Prism's Equilateral Extra White are manufactured from optical quality white glass having R.1. : 1.5 App. Used to disperse the light and for pin method experiment's



Ready Stock Sizes are available as under.

	L X W X H	Rate	Unit
(i)	25 X 25 X 25 mm	Rs. 120.00	Each
(ii)	32 X 32 X 32 mm	Rs. 270.00	Each
(iii)	38 X 38 X 38 mm	Rs. 320.00	Each
(iv)	50 X 50 X 50 mm	Rs. 700.00	Each

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(c) Prism Spectrometer

These Spectrometer Prism's are manufactured from Optical glass having R.I.: 1.510 to R.I.: 1.700 in Equilateral Shape with two faces polished, in our three standard Sizes used with spectrometer & for different scientific application's. **Packed in Velvet Box.**



Ready Stock Sizes are available as under.

Type of Glass	Ref. Index	Rate 25 X 25mm	Rate 32 X 32mm	Rate 38 X 38mm	Unit
Crown Glass	1.517	Rs. 320.00	Rs. 400.00	Rs. 530.00	Each
Dens Flint Glass	1.620	Rs. 400.00	Rs. 680.00	Rs. 800.00	Each
Extra Dens Flint Glass	1.648	Rs. 460.00	Rs. 800.00	Rs. 1,100.00	Each
Double Extra Dens Flint Glass	1.700	Rs. 900.00	Rs. 1,500.00	Rs. 2,000.00	Each

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(d) Prism Hollow & Trough

(i) Prism Hollow Spectrometer

Prism Hollow for Spectrometer have three plain ground Surfaces at 60 degree angle with horizontal and vertical hole. Manufactured from solid glass block's, used with plain transparent glass plates at spectrometer for scientific application's.

Packed in Velvet Box



Ready Stock Sizes are available as under.

	L X W X H	Rate	Unit
(i)	38 X 38 X 25 mm	Rs. 380.00	Each
(ii)	38 X 38 X 38 mm	Rs. 500.00	Each
(iii)	50 X 50 X 50 mm	Rs. 600.00	Each

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(ii) Prism Hollow Indian

Manufactured with Indian plate glass Prism Hollow having three plain transparent sides at 60 degree with hole from top manufactured with transparent plate glass and cemented with each other, used for scientific application's.



Ready Stock Sizes are available as under.

	L X W X H	Rate	Unit
(i)	50 X 50 X 50 mm	Rs. 180.00	Each

(ii) Trough

Trough Hollow have four transparent side's at 90 degree angle's, with base plate and open from the Top, manufactured with transparent plate glass cemented with each other for scientific application's



Ready Stock Sizes are available as under.

Item	Size	Rate	Unit
Trough	60 X 60 & 75 X 75 mm	Rs. 180.00	Each

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(e) Prism With Different Angle

Prism with Different angle manufactured form Optical Crown glass having R.I.: 1.517 App. In the size of 32 X 32 mm, for scientific application. **Packed in Velvet Box.**

Ready Stock Sizes are available as under.

Angles	Rate	Unit
5° X 5° X 170°, 10° X 10° X 160°	Rs. 500.00	Each
15° X 15° X 150°, 20° X 20° X 140°	Rs. 500.00	Each
25° X 25° X 130°, 30° X 30° X 120°	Rs.500.00	Each
40° X 40° X 100°	Rs. 500.00	Each

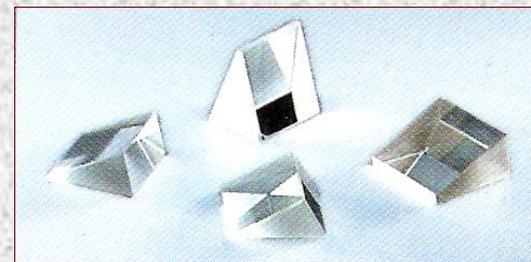


(f) Prism with Narrow Angle

Prism with Narrow angle manufactured from Optical Crown glass having R.I.: 1.517 App. In the size of 32 x 32 mm, for scientific application's.

Ready Stock Sizes are available as under.

Angles	Rate	Unit
5° X 87.5° X 87.5° , 10° X 85° X 85°	Rs. 500.00	Each
15° X 82.5° X 82.5° , 20° X 80° X 80°	Rs. 500.00	Each
25° X 77.5° X 77.5° , 30° X 75° X 75°	Rs. 500.00	Each
30° X 60° X 90° , 40° X 70° X 70°	Rs. 500.00	Each



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(g) Prism Quartz

Prism Quartz are manufactured from natural raw Crystal's optically worked with optical axis parallel to refracting edge and optical axis parallel to base, when adjusted to minimum deviation for different scientific applications. **Packed in Velvet Box.**



Ready Stock Sizes are available as under.

(i) With Optical axis parallel to refracting edge, when adjusted to minimum deviation.

Size	12.5 X 12.5 mm	15 X 15 mm	18 X 18 mm	25 X 25 mm	Unit
Rate	Rs. 1,400.00	Rs. 1,900.00	Rs. 2,400.00	Rs. 4,200.00	Each

(h) Prism Fresnal Bi-prism

Fresnal Bi-Prism are manufactured from optical Crown glass having R.I. : 1.517 with the very low angle's of 0.50 seconds for better fringes in the under mentioned sizes.

Ready Stock Sizes are available as under.

	Angles	Rate	Unit
(i)	40 X 32 mm	Rs. 460.00	Each
(ii)	50 X 40 mm	Rs. 500.00	Each



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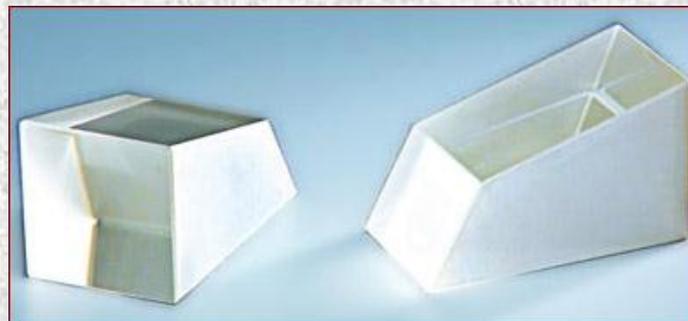
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(i) Prism Constant Deviation Spectrometer

Constant Deviation Spectrometer Prism are made with high index R.I. : 1.651 & 1.700 optical glass for excellent performance, used in constant deviation spectrometer Optical Instrument.

Ready Stock Sizes are available as under.

	Size	R.I.	Rate	Unit
(i)	30 X 30 X 55 mm	1.651	Rs. 3,600.00	Each
(ii)	35 X 35 X 65 mm	1.651	Rs. 5,000.00	Each
(iii)	30 X 30 X 55 mm	1.700	Rs. 7,000.00	Each
(iv)	35 X 35 X 65 mm	1.700	Rs. 8,600.00	Each

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(j) Prism Right Angle

Right Angle Prism are used to change the path of light at 90 degree and having 90 X 45 x 45 degree angles with three polished surfaces, manufactured from optical Crown glass having R.I.: 1.517 App.



Ready Stock Sizes are available as under.

	L X W X T	Rate	Unit
(i)	10 X 10 X 10 mm	Rs. 150.00	Each
(ii)	12 X 12 X 12 mm	Rs. 150.00	Each
(iii)	15 X 15 X 15 mm	Rs. 100.00	Each
(iv)	20 X 20 X 20 mm	Rs. 180.00	Each
(v)	25 X 25 X 25 mm	Rs. 240.00	Each
(vi)	32 X 32 X 32 mm	Rs. 500.00	Each
(vii)	38 X 38 X 38 mm	Rs. 600.00	Each
(viii)	50 X 50 X 50 mm	Rs.1,100.00	Each

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Magnifier

- [Magnifier Metallic](#)
- [Magnifier Bakelite Handle](#)
- [Magnifier with Stand](#)
- [Magnifier Unbreakable](#)
- [Magnifier Folding](#)
- [Magnifier Pocket](#)
- [Magnifier Eye Glass](#)

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(a) Magnifier Metallic : Chromium Plated :

These hand held magnifier's having Spherical Double Convex lens mounted with chromium plated brass ring with handle to hold and move the magnifier's according to desired position.



Ready Stock Sizes are available as under.

	Diameter	Magnification	F. Length	D. Power	Rate	Unit
(i)	40 mm	3.50 X	10 cm	+ 10	Rs. 64.00	Each
(ii)	50 mm	2.25 X	20 cm	+ 5	Rs. 74.00	Each
(iii)	50 mm	3.50 X	10 cm	+ 10	Rs. 86.00	Each
(iv)	60 mm	2.25 X	20 cm	+ 5	Rs. 96.00	Each
(v)	75 mm	2.25 X	20 cm	+ 5	Rs. 140.00	Each
(vi)	100 mm	2.25 X	20 cm	+ 5	Rs. 260.00	Each
(vii)	125 mm	1.83 X	30 cm	+ 3	Rs. 580.00	Each
(viii)	150 mm	1.83 X	30 cm	+ 3	Rs. 700.00	Each

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(b) Magnifier Bakelite Handle: These hand held Bakelite Handle Magnifier having Spherical Double Convex glass lens mounted in chromium plated brass ring with bakelite handle, specially manufactured for export purpose.



Ready Stock Sizes are available as under.

	Diameter	Magnification	F. Length	D. Power	Rate	Unit
(i)	30 mm	6.50 X	6 cm	+ 16	Rs. 76.00	Each
(ii)	50 mm	2.25 X	20 cm	+ 5	Rs. 88.00	Each
(iii)	50 mm	3.50 X	10 cm	+ 10	Rs. 94.00	Each
(iv)	60 mm	2.25 X	20 cm	+ 5	Rs. 106.00	Each
(v)	75 mm	2.25 X	20 cm	+ 5	Rs. 148.00	Each
(vi)	100 mm	2.25 X	20 cm	+ 5	Rs. 280.00	Each

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(a) Magnifier With Stand:

These Magnifier's with stand having Spherical Double Convex glass lens consist of highly chromium plated lens holder with horizontal arm, Vertical Rod with clamp for holding the arm fitted on wrinkle painted iron base, horizontally and vertically adjustable.

Ready Stock Sizes are available as under.

	Diameter	Focal Length	Rate	Unit
(i)	75 mm	20 cm	Rs. 650.00	Each
(ii)	100 mm	20 cm	Rs. 700.00	Each



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(e) Magnifier Unbreakable :

These hand held unbreakable magnifier's having Spherical Double Convex glass lens mounted in unbreakable plastic moulded frame.

Ready Stock Sizes are available as under.

Diameter	40 mm	50 mm	75 mm	Unit
Rate	Rs. 18.00	Rs. 26.00	Rs. 50.00	Each



(f) Magnifier Folding :

These folding magnifiers having combination of two lenses mounted in unbreakable Bakelite ring and fitted with rotatable anodized Aluminum cover for pocket use. We are supplying in two qualities (i) Superior Quality : fitted with two Plano convex white lenses. (ii) Regular Quality : fitted with two Double convex tint lenses.

Ready Stock Sizes are available as under.

	Magnification	Rate	Unit
Superior Quality	10 X	Rs. 100.00	Each
Regular Quality	10 X	Rs. 28.00	Each



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(g) Magnifier Pocket :

Pocket Magnifier's having a simple Spherical Double convex lens mounted in Plastic ring and easily foldable in leather cover to keep in pocket.

Ready Stock Sizes are available as under.

Magnification	Rate	Unit
4 X	Rs. 50.00	Each

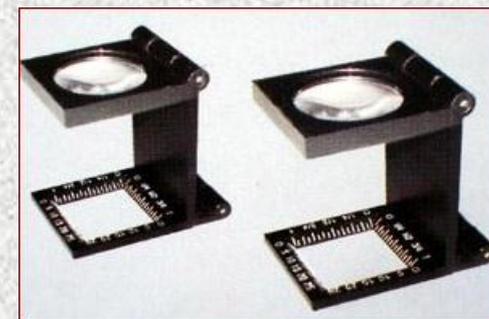


(h) Magnifier Eye Glass :

These three fold magnifier eye glasses are manufactured with white glass lenses and having scale for the counting of threads, lines and dots in particular area. Also known as a thread counter and Linear Tester.

Ready Stock Sizes are available as under.

Magnification	Rate	Unit
5 X	Rs. 160.00	Each
7 X	Rs. 140.00	Each
10 X	Rs. 140.00	Each



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Glass Slab

- [Glass Slab English](#)
- [Glass Slab Hollow](#)

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(a) Glass Slab English :



These Glass Slab's are having parallel polished Surfaces from all sides. These are used to measurement for angle of refraction, when light pass through two different environment's, and manufactured from bubble less sheet glass.

Ready Stock Sizes are available as under.

	L X W X T	Rate	Unit
(i)	75 X 50 X 12 mm	Rs. 40.00	Each
(ii)	75 X 50 X 18 mm	Rs. 120.00	Each
(iii)	110 X 60 X 18 mm	Rs. 180.00	Each

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Eye Piece

- [Eye Piece Huygens](#)
- [Eye Piece Ramsden](#)

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EYE PIECE

(a) Eye Piece Huygens :

Huygens mounted Eye pieces are specifically designed as per principal having mounted two Plano Convex lenses parallel to each other in the similar direction of their surfaces, available in excellent performance as under mentioned magnifications.

(b) Eye Piece Ramsden

Ramsden Eye pieces are specifically designed as per principal having mounted two Plano Convex lenses parallel to their surfaces in opposite directions of their surfaces, available in excellent performance as under mentioned magnifications.



Availability for different type of Eye Pieces with Magnification are as under

Type	5 X	10 X	15 X	20 X	Unit
Huygens	Rs. 200.00	Rs. 200.00	Rs. 220.00	-----	Each
Ramsden	-----	Rs. 200.00	Rs. 260.00	Rs. 480.00	Each

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Watch Glass

- [Watch Glass Superior Quality](#)

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Watch Glass



Superior Quality :

Watch Glass Superior Quality are manufactured from clear Sheet glass in round shape with well edged and having cavity to keep the small specimen or particle's

Ready Stock Sizes are available as under.

Dia.	50 mm	60 mm	75 mm	100 mm	125 mm	150 mm	Unit
Superior	Rs. 60.00	Rs. 70.00	Rs. 90.00	Rs. 160.00	Rs. 300.00	Rs. 350.00	Dozen

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Reflector

- [Reflector for Telescopes](#)
- [Reflector for Microscope](#)
- [Reflector Clamp for Microscope](#)
- [Reflector for Projector](#)

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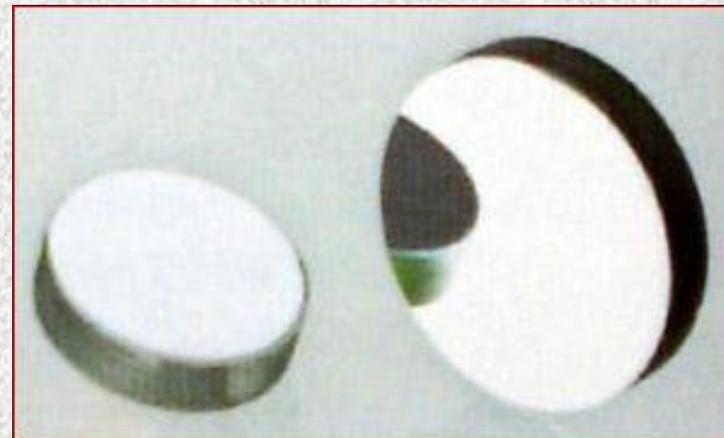
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(a) Reflector for Telescopes :

Reflector's for Telescopes are used in Reflecting telescopes to get the brighter and wide field through secondary mirror on the Eye Pieces. We manufactured the Reflector's for telescopes having on side Concave mirror with front coated and other side plain ground surface, knife edge tested in $f / 5$ to $f / 10$ focal length with the suitable size of secondary mirror.



Ready Stock Sizes are available as under.

	Dia	Rate	Unit
(i)	75 mm	Rs. 1,400.00	Each
(ii)	100 mm	Rs. 2,800.00	Each
(iii)	150 mm	Rs. 6,000.00	Each
(iv)	200 mm	Rs. 8,000.00	Each
(v)	250 mm	Rs. 17,500.00	Each
(vi)	300 mm	Rs. 28,000.00	Each
(vii)	350 mm	Rs. 37,500.00	Each
(viii)	400 mm	Rs. 90,000.00	Each

Secondary Mirror for Telescopes :

Ready Stock Sizes are available as under.

	Size	Rate	Unit
(i)	20 X 30 mm	Rs. 700.00	Each
(ii)	25 X 37 mm	Rs. 700.00	Each
(iii)	30 X 45 mm	Rs. 1,100.00	Each
(iv)	38 X 55 mm	Rs. 1,400.00	Each

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(b) Reflector for Microscopes :

In the general illumination application Reflector's increases the light on the desired field. So, that optical system need to addition of Reflector's to improve the image quality, we manufactured the Reflector's for microscope's having one side Concave mirror and other side plain mirror sealed in black anodized aluminum Ring with Clamp, required to attach with microscope's.

Ready Stock Sizes are available as under.

Size	Rate	Unit
Superior Quality 51 mm	Rs. 60.00	Each



(c) Reflector Clamp For Microscopes :

Reflector clamp need to hold the Reflector in the Microscopes So, that the user Can adjust the light at the particular desired part for maximum Illumination. We manufactured the Reflector's clamp for microscope's in black painted metal arc and pin for smooth movement.

Ready Stock Sizes are available as under.

Item	Rate	Unit
Metal Arc	Rs. 30.00	Each



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(d) Reflector for Projector :

In the general illumination application Reflector's need to increase the light on the desired field. So, that optical system need to addition of Reflector's to improve the image quality, we manufactured the Reflector's with Front End Coated and Back Silvered for Projector's and different scientific application's. Some of the sizes having front end coating, given here under for ready references.



Ready Stock Sizes are available as under.

	Dia	Rate	Unit
(i)	50 mm	Rs. 500.00	Each
(ii)	63 mm	Rs. 800.00	Each
(iii)	75 mm	Rs. 1,200.00	Each

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Newton Ring Apparatus

- [Superior Quality](#)
- [Regular Quality](#)

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Newton Ring Apparatus

(i) Superior Quality : (White Glass Lenses)

Newton Ring Apparatus having two black Powder Coated aluminum ring's and fitted with set of two Crown Glass extra White lenses of one plain glass and one spherical Plano Convex lens of R.O.C. 100 and 50 cm. (i.e. Focal Length of 200 & 100 cm) with three adjustable screws to produce Newton Ring's when applying the pressure. **Each apparatus packed in Velvet Box**

(ii) Regular Quality : (Tint Green Lenses)

Newton Ring Apparatus having two black Powder Coated aluminum ring's and fitted with set of two Tint plate glass lenses of one Plain glass and one spherical Plano Convex lens of R.O.C. 100 and 50 cm, (i.e. Focal Length of 200 & 100 cm) with three adjustable screws to produce Newton Ring's when applying the pressure. **Each apparatus packed in Velvet Box**



Ready Stock Sizes are available as under.

Item	Rate	Unit
Mounted with Lenses of white Glass	Rs. 900.00	Set
Mounted with Lenses of Tint Glass	Rs. 550.00	Set

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Diffraction Grating

- [Replica Imported](#)
- [Replica Indian](#)
- [Replica Transmission](#)

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Diffraction Grating :

A large number of parallel closely spaced slits constitutes Diffraction Grating. When there is a need to separate light of different wavelengths with high Resolution, then a diffraction grating is an immensely useful tool for the separation. This Super Prism aspect of the Diffraction grating to use in labs and for scientific applications.

(i) Replica Imported

Transmission type imported Replica on Glass plate and covered with another glass plate available in 100, 200, 300 and 600 lines per mm

(ii) Replica Indian :

Replica Indian Type Diffraction made on Glass plate and covered with another glass plate available in 15,000 Lines per inch

(iii) Transmission :

Transmission type Diffraction Grating made on Glass plate and covered with another glass plate available in 12,500 Lines Per Inch.



Ready Stock Sizes are available as under.

Item	Replica Imported	Replica Indian	Transmission	Unit
Rate	Rs. 4,000.00	Rs. 1,250.00	Rs. 600.00	Each

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Projection Lens

- [Triple Element Mounted](#)

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(a) Triple Element Projection Lens : Mounted

Triple Element Projection Lenses are design for abbreviation free as well as for excellent resolution and best solution for Projection System. These lenses having anti reflection coating and mounted in black painted Aluminum casing.



Ready Stock Sizes are available as under.

Dia.	Focal Length	Rate	Unit
64 mm	330 mm	Rs. 3,600.00	Each

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Other's Item

- [Air Wedge Plates](#)
- [Blue Glass](#)
- [Color Filter](#)
- [Polaroid Disc](#)

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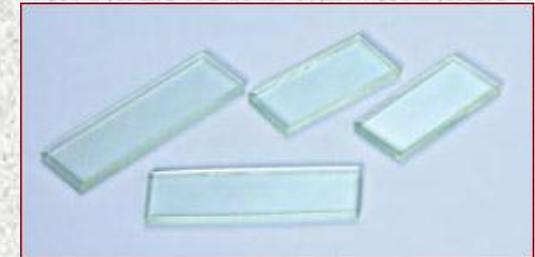
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(a) Air Wedge Plates : Air Wedge glass Plates are made with Crown glass, having optical Flat surface and used for Air Wedge Experiment.

Ready Stock Sizes are available as under.

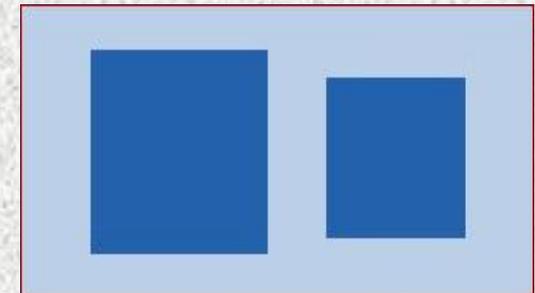
	Size	Rate	Unit
(i)	75 X 25 X 3 mm	Rs. 440.00	Per Set
(ii)	50 X 25 X 4 mm	Rs. 350.00	Per Set



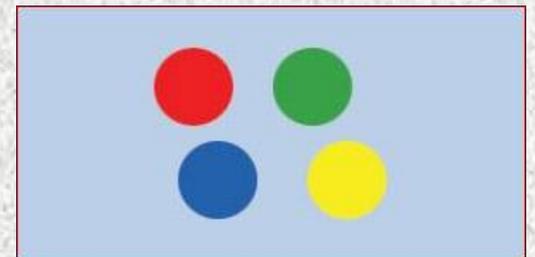
(b) Blue Glass : Blue glass color filter's are used for scientific application. And available in under mentioned sizes or customized as per customer specification.

Ready Stock Sizes are available as under.

	Size	Rate	Unit
(i)	50 X 50 mm	Rs. 130.00	Each
(ii)	38 X 38 mm	Rs. 70.00	Each



(c) Color Filter : Color Filter's are used for scientific application and available in different color and sizes or customized as per customer specifications subject to availability.



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(f) Polaroid Disc : Polaroid disc having Polaroid film covered from both sides with glass plates and mounted in black anodized aluminum ring of Dia. 50 mm, to use for scientific application. A pair of Polaroid Disc having work like Polarizer and Analyzer.

Each set packed in velvet box.

Ready Stock Sizes are available as under.

Size	Rate	Unit
50 mm	Rs. 750.00	Per set

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- # All Prices are given basic in Indian Rupees
- # Each and every purchase order must be sent on prescribed order form or printed letter head or by Email.
- # Dealers Discount shall be given as under & no discount will be given, if P.O. less then Rs.5, 000/- :-
 - (a). Dealer Discount shall be given @ 40 % on the order amount from Rs. 5,001/- to Rs. 10,000/- on List Price.
 - (b). Dealer Discount shall be given @ 45 % on the order amount from Rs. 10,001/- to Rs. 20,000/- on List Price.
 - (c). Dealer Discount shall be given @ 50 % on the order amount from Rs. 20,001/- to onwards on List Price.
- # The advance 25 % should be sent with P.O. & balance 75% will be at or before the time of delivery, through any nationalized bank or by Demand Draft.
- # All the additional expenses shall be charged extra as actual i.e. packing, freight and postage etc.
- # VAT / CST will be charge extra @ 2 % with form C or @ 12.5 % without form C.
(VAT no. must be mention on purchase order for outstation Clients or local clients whose required Tax Invoice)
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The Astronomy

The watch word of any astronomer is light. Much of his work is concerned with observing stars and galaxies. Astronomy underwent a great change in the early 1600s. In 1608, the Dutch spectacles maker Hans Lipershey invented the telescope. At last, astronomers could be able to observe the Moon and other planets. And thousand of stars, invisible to the naked eye, could be seen for the first time.

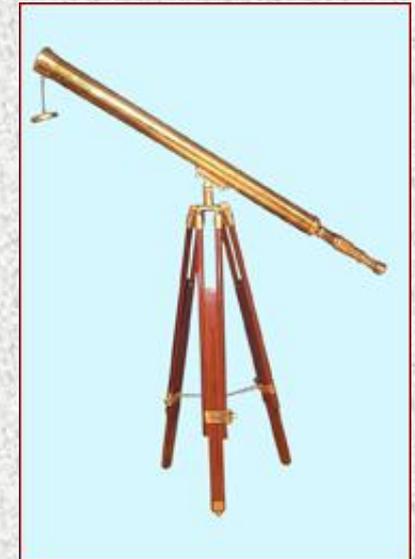
The great Italian scientist Galileo made himself a telescope and used it to observe the Moon and planets in 1609. Galileo Became the first astronomer to use a telescope.

In its simple form of refracting telescope has two single lenses. i.e. an objective and an eyepiece. The objective lens forms and image of the object being studied and the eye piece magnifies this image.

This simple telescope was relatively weak and produce image gives colour distortion. A line of red and blue colour were formed around the edge of the image. Issac Newton discovered the next generation telescope known as the reflecting telescope which has remove the colour distortion because the telescope had a curved mirror instead of an objective lens. That curved mirror reflected light from the object on to a plane mirror (i.e. secondary mirror) and diverted the path, then pass into and eyepiece lens in the side of the telescope tube. This reflecting telescope much more popularise within the astronomers due to the good image quality.

Now a days, the reflecting and refracting telescopes are used by astronomers. But, in the present time the most of astronomers used reflecting type. Being the reflecting type produce a distortion free image.

The largest refractor in the world is 40 inch telescope at Yerkes Observatory in U.S.A. The most famous reflector in the world is the 200inch telescope at Palomar Mountain in U.S.A. Asia largest reflector telescope in the 93 inch at Kavalur in Tamil Naadu in India. It has named the Vainu Bapu Telescope after M.K. Vainu Bappu who was the originator of the telescope and a very intelligent Indian astronomer.



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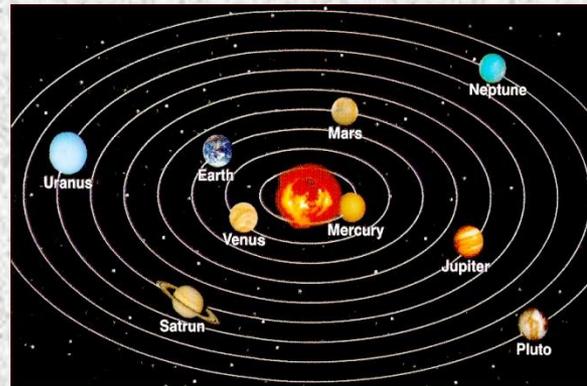
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The Solar System



There are, at present, many different theories concerning the origin of the Solar System. The most satisfactory one is that of G.P. Kuiper, and American astronomer (1949). This theory holds that the Solar System formed from a rotating cloud comprising gas and particles of dust and ice. This cloud is referred to as the solar nebula. Through the effect of gravity, the material in the Solar nebula congregated towards the central region, resulting in an increasing in density, temperature and pressure and the formation of 'protostar'.

At the same time, the rotation of the irregular cloud caused it to flatten out into a disc. It was from the central region of this disc that the Sun was formed, the outer parts eventually forming the planets. This theory ties in quite well with observation, which shows us that the planetary orbits are more or less in the same plane. Consequent to the invention of the telescope, astronomers found three, more distant planets, Uranus was discovered in 1781, Neptune in 1846 and Pluto in 1930. All nine planets travel in orbits around the Sun. They all move in the same direction.

Many of the planets have satellites orbiting them, rather like miniature solar systems. Gravity hold the satellites in their orbits around their planets, just as it keeps the whole of the Sun's family together.

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The Universe



Many ideas have been proposed to explain how the Universe came into being. The idea of a primeval explosion was put forward in 1927 by the Belgian mathematician Abbe Georges Lemaitre. Lemaitre's idea was elaborated by later astronomers and eventually became known as the Big Bang theory. Scientist-philosophers who take this view believe that the Universe was created in one giant explosion of one ball of energy; the galaxies created by the explosion are still hurtling outward. Mathematicians are even able to calculate that the explosion took place some where between five and eight billion years ago. Some thinkers who agree with this view say that the present is just one stage of a repeating process. At a certain point the process will be reversed and the Universe will contract again to one ball, only to explode again. This sounds familiar from the theory we discussed of how stars are made. Modern Radio Astronomical researches give a strong support to the Big-Bang theory.

In 1948, Hermann Bondi and Thomas Gold submitted a new theory which is called the Steady – State or Balanced Universe. Fred Hoyle, an English astronomer and J.V. Narlikar, the famous Indian astronomer, have done notable research work on the Steady-State theory of the Universe and both of them are strong supporters of this theory. This view holds that the Universe has no beginning and no end, that it always has had and always will have about the same distribution of material. As the galaxies spread out, the material to make new ones is being created at a rate will balance the loss of the present galaxies. Where will the present ones go? Since they are moving apart faster and faster, they will eventually reach the speed of light. But matter can't go that fast, according to our present theories. Will they just disappear? When we look up at the stars today, we still feel the wonder that the first man felt.

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