



Fired by imagination  
Moulded to perfection



# The Logo



## Gyan Mudra

The ancient, universal symbol of the Gyan Mudra is the logo of Piramal Group. The Gyan Mudra epitomizes the core values of the group – **knowledge, action and care**. It is said to focus the mind, body and heart to give the light of knowledge, encourage dynamic action and deep care & compassion, bringing health, prosperity and peace to all.

## Group Performance



### Purpose statement of “The Piramal Group”

“**Piramal Group**” – is a diversified conglomerate with interests in :

**Healthcare | Life Sciences | Glass Packaging | Information Management | Financial Services**

Hence the Purpose Statement of the Group is stated in generic terms as:

### “**Doing Well** and **Doing Good**”

By reaching a Group Market  
Capitalization of **USD 20 bn** by **2020**

By participating in business or activities  
that would “**make a positive difference,**  
**serving people and living our values of**  
**Knowledge, Action and Care**”

While as a Group we would like to do “**Well**”

we would also like to do “**Good**”



# Operational Overview

## Manufacturing Presence



### Furnaces

### Cosmetic & Perfumery

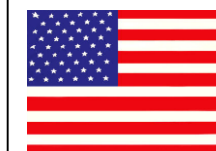
### Specialty Food & Beverages

### Pharmaceutical

India



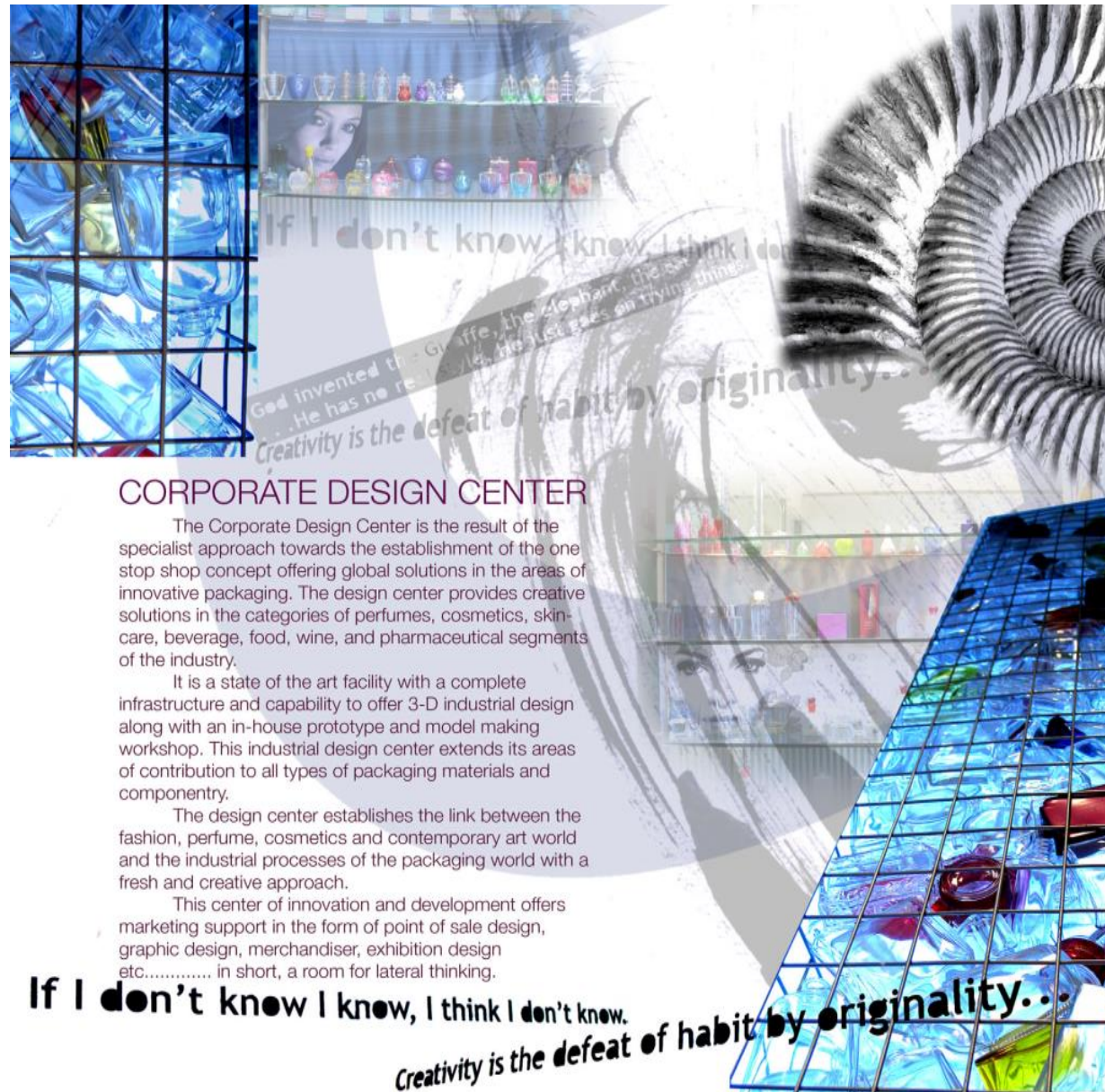
USA



Sri Lanka



# Corporate Design Studio



**CORPORATE DESIGN CENTER**

The Corporate Design Center is the result of the specialist approach towards the establishment of the one stop shop concept offering global solutions in the areas of innovative packaging. The design center provides creative solutions in the categories of perfumes, cosmetics, skin-care, beverage, food, wine, and pharmaceutical segments of the industry.

It is a state of the art facility with a complete infrastructure and capability to offer 3-D industrial design along with an in-house prototype and model making workshop. This industrial design center extends its areas of contribution to all types of packaging materials and componentry.

The design center establishes the link between the fashion, perfume, cosmetics and contemporary art world and the industrial processes of the packaging world with a fresh and creative approach.

This center of innovation and development offers marketing support in the form of point of sale design, graphic design, merchandiser, exhibition design etc..... in short, a room for lateral thinking.

*If I don't know I know, I think I don't know.*  
*Creativity is the defeat of habit by originality...*

- Piramal Glass has an in house state of the art Design studio.
- Full fledged Industrial design facility which is established on the philosophy of one stop shop approach. Offering design of entire package like the bottle cap carton and the decoration on the bottle.
- This phenomenon is unique and one of its own kind in the world, with designers from world renowned Engineering schools like IIT.
- It is a service to customers for private design development.





# One Stop Shop



- In-house design studio with world class **Industrial design** facilities.
- In house **mould shop**
- Strategic alliances for accessories like **caps and brushes**.
- In house **decoration facilities** in India, USA & Sri Lanka  
Processes include  
**Coating,**  
**Printing,**  
**Frosting,**  
**Hot Foil Stamping etc.**



## Manufacturing Capabilities



Color Feeder &  
Fire polishing



Narrow Bottoms



Off-Center Necks



Thick Bases



Tall Bottles

## Decoration Capabilities



Printing



Hot Stamping



Spray Coating



Frosting



Decalling



Fitment/Gluing

Currently developing **metallization** for 2017.



# Segment Overview

## Cosmetics & Perfumery : Premium Segment



- In last three years PGL-India has done 120 premium projects in France and PGL-USA has done 21 premium projects in USA.
- Regular suppliers to  
P&G,  
LVMH,  
Coty,  
L'Oreal,  
Shiseido,  
Yves Rocher,  
Beiersdorf,  
Estee lauder  
PJ Bogart

# Segment Overview

## Cosmetics & Perfumery : Mass Segment



- Manufactures skin care jars foundation bottles, roll-ons and perfume bottles.
- Provide bottle design including integrated package of decoration, carton and cap designs.
- In house decoration including printing coating, frosting and hot foil stamping.
- Export to Middle East, CIS, LATAM and Africa



## Fragrance - Europe



## Fragrance – N. America





## Treatment / Cosmetics



ASS  
ire

## Nail Polish





# Segment Overview

## Speciality Food & Beverages



- Growing presence in the specialty food & beverage market substituting European suppliers.
- Long term contracts with reputed customers like Cadbury Schweppes, Smuckers, Toms and McCormick
- Value add such as decoration & feeder coloring
- Preferred supplier to the growing local food market
- Exclusive supplier to India for high value added specialty bottles (boutique wines and colored liquor bottles with printing & frosting)

# What Glass can do for you !!

**Glass : A Healthy Packaging Material**



# Why Glass?



In a world that is full of toxic threats, glass is the responsible choice for consumers to help protect both their health and the environment.

Glass is the only widely-used packaging considered by the U.S. Food and Drug Administration as "generally recognized as safe" or "GRAS," the agency's broadest standard for food-contact materials. As such, it remains the optimal packaging choice, safely preserving the flavor and integrity of the foods and beverages it contains while lowering potential exposure to toxic compounds.

Glass is 100% recyclable and can be recycled endlessly without loss in quality or purity - something few food and beverage packaging options can claim

# Environmental and Health Benefits

- Glass is made from abundant raw material
- Glass is inert
- Glass is non-porous
- Glass is safe & healthy
- Glass is irradiated
- Glass is recyclable
- Glass is resistant to chemicals and solvent
- Glass ensures hermetic seal
- Glass is transparent
- Glass has best recycling performance

# Other Benefits of Glass

- Glass is best packaging material in preserving taste, aroma and nutritional values of the food
- Glass containers can be made in any shape & design
- Use of flat glass in doors and windows permits use of sun light and saves energy
- Use of glass in partitions saves wood and checks deforestation
- Glass can be used for high speed filling. Thus, saving time and increasing profits
- Glass containers made from cullet or weight reduction technology saves energy. Every ton of glass recycled saves 322KwH of energy, 246 kg of CO<sub>2</sub> and 1.2 tonnes of virgin raw material
- Glass reduces the quantity of waste to be treated or dumped. In addition to reducing environmental damage, it helps in savings on waste transport and disposal costs.



# Usage of glass in Pharmaceutical Industry

# Usage of Glass in Food & Pharmaceuticals



- Liquid Orals Formulations
- Suspensions
- Dry Syrup antibiotics
- Solvents
- Acids for Diagnostic purpose

- Jam, Ketchup, Honey, Pickles
- Coffee Jars

- Dry Powder Injectable
- IV Solutions
- Contrast medium
- Anesthetics





## PHARMACEUTICAL RANGE



5 ML PWG    10 ML PWG (NEW)    12 ML DROPPER (EXPORT)    15 ML PWG (NEW)    20 ML DROPPER    30 ML DROPPER (NEW)    50 ML PWG (NEW)    100 ML PWG (NEW)

## PHARMACEUTICAL RANGE





## PHARMACEUTICAL RANGE



G-4(18 ML)



G-2 (50 ML)



46 ML RING



60 ML AMBER



60 ML CIPLA



100 ML AMBER



75 ML CIPLA



G-7



G-7 RING



220 ML G-11



200 ML HEAM UP

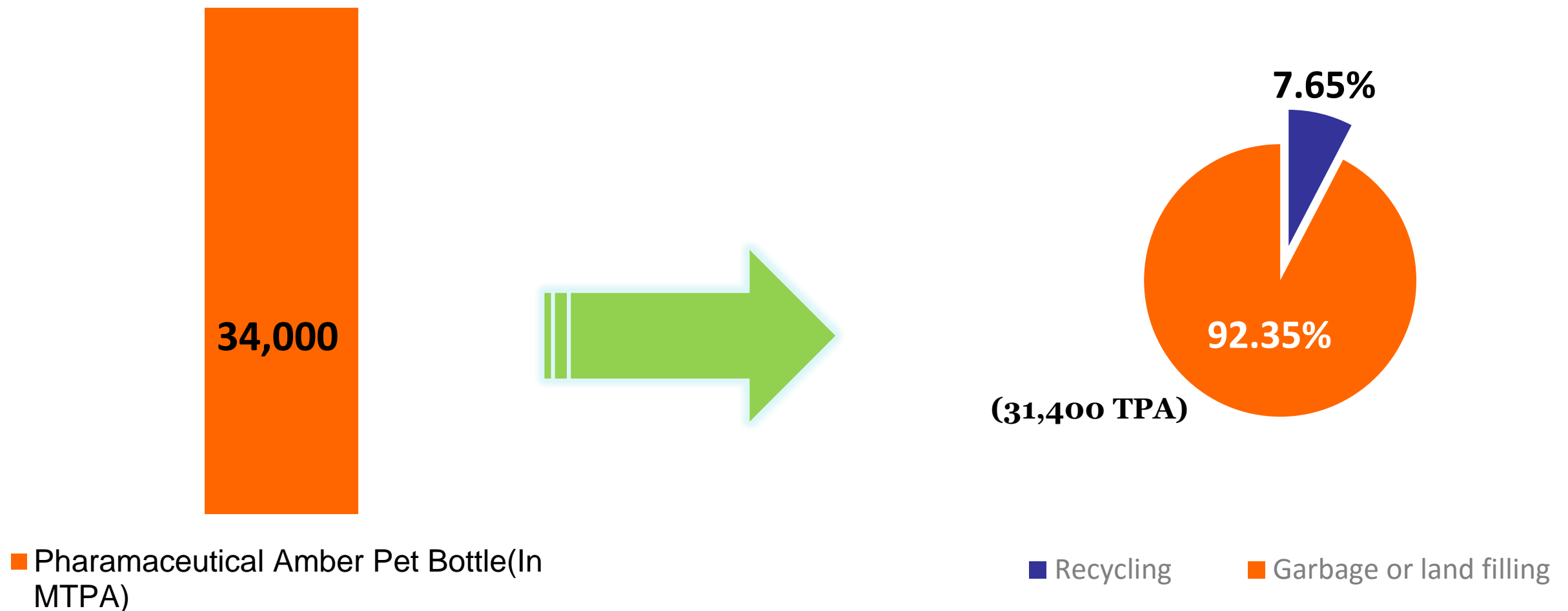


200 ML BRUT

# Facts on Amber PET Recycling



# Amber Pet Bottle Usage Vs Recycling In India



- Only 7.65% Pharmaceutical Amber pet bottles are recycle , 92.35% goes for land filling
- No incineration plant for municipal waste – Amber pet bottle

# Opinion for Usage of Pet Bottle

## Opinion for more acceptance of Flint & Green PET bottle and least for Amber PET bottle

### Reason for acceptance of Clear & Green PET Bottles

- Manufacture all colour polyester staple fiber from flint or clear pet bottle
- End product have good tensile strength or IV (intrinsic viscosity) value
- Fine denier polyester would manufacture from clear or green pet bottle
- Pet strap are mostly either green or light colour and hence manufactured by flint or green colour bottle
- Easy processing , less waste of product during production of multicolor end products
- Mass production , economy of scale
- Environment friendly (low / no emission of fume, hazardous gases)



### Reason for Less acceptance of Amber PET Bottles

- Only black colour polyester staple fiber can manufacture from Amber Pet bottle
- Black colour polyester fiber have Less volume demand
- End product have less tensile strength compare to flint
- Difficult to identify Amber PET bottle from PVC bottle, PVC bottle is harmful on account of its composition properties
- Require separate production line, if one shift Amber colour pet bottle to another, approx. one ton raw material become waste (i.e. huge loss for any recyclers)
- Proper washing is required, even after proper wash few chemical/medicine left out, which creates problem for manufacturing of end products.
- Harmful gas realized during processing of Amber PET bottles

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**THE TIMES OF INDIA**

## Environmental toxins may take a toll on newborns: Navi Mumbai study

Malathy Iyer, TNN | Apr 28, 2013, 12:48 AM IST



*The Navi Mumbai study noticed an alarming increase, almost 200%, in the incidence of undescended testicles.*

A medical study conducted among 1,000 children born in a Navi Mumbai hospital could be an indicator of the growing effect of environmental toxins on the human reproductive system.

The study, which was presented at the 24th congress of the European Society for Paediatric Urology in Genoa, Italy, on Friday, showed there is a growing incidence of genital abnormality among boys possibly because of the increasing exposure to endocrine disruptor chemicals. Known as phthalates and bisphenol-A, these chemicals are used in plastic bottles, food wraps, cosmetics, toys, etc. Experts say that chemicals in pesticides, painkillers and cigarettes too can disrupt the hormone system.

The study was conducted by Dr Arbinder Singal, a paediatric urologist with MGM Hospital in Vashi. His team checked 1,154 children on the first or second day of birth for genital abnormalities.

An increase in incidence of male reproductive disorders has been noted all over the world, said Singal.

"Such disorders are thought to be the result of chemical exposure that interfere with the sex hormone during development and sex differentiation which happens during 8 to 12 weeks of foetal development," he said.

The Navi Mumbai study noticed an alarming increase, almost 200%, in the incidence of undescended testicles. "We found almost 5% of the full-term newborn male babies had undescended testes," he told TOI. The male hormone, testosterone, is produced in the testicles, which are two oval-shaped male sex organs located inside a small sac called the scrotum that is located under the penis. The last study in India done in 1972 showed an incidence of 1.6%. "If we include milder forms of undescended testes, the incidence may be as high as 8.7%," he added.

In 70% of the cases, testes descend within the first few months of life. But what is worrying is that 30% will need surgical correction. "An extrapolation of our results suggest that about 7 lakh babies would be born in India with undescended testes. Even if there is natural correction in 70% of the children by 6 months of age, there would still be 2.1 lakh babies every year who will need surgery for the condition in India," he added. If this condition is not treated, it could lead to fertility problems, torsion and cancer formation.



# Thank you



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