



CLUSTER OF GLASS BEADS

GENERAL MANAGER,
DISTRICT INDUSTRIES CENTRE
HATHRAS

HANDICRAFT NAME- GLASS BEADS

DISTRICT- HATHRAS

INTRODUCTION-

The word “Beads” is derived from Anglo-Saxon verb “Biddan to “pray” and “bede” meaning prayer. Rosaries, a set number of beads for counting prayers are used by over half the world religions. It has now been extended to mean almost any pierced object.

Glass beads is a handicraft item produced by skilled artisans out of block glass or colourful glass rods. The Glass bead made with simple machines and a tool are used to make artificial jewellery and is used to decorate garments also.

Glass Beads play a decisive role in almost all areas of industrial and daily life. They are also required in artificial jems & jewellery making like rings, ear rings, garlands, neckless, imitation stones , decorating of textiles like sari, bed sheets, dupatta, blouse, salwar, kurta, table clothes, curtains, seat covers of automobiles etc. Glass Beads worn by animals. Beads for footwear decoration, Glass Beads for bags & purse decoration, Glass Beads for decorating of artistic handicraft items, wood, brass, plastic, cloth es, stones etc. are also used

HISTORY OF GLASS BEADS MAKING IN INDIA

Earlier evidence of glass beads comes from Scandinavia as well as from the trading sites of Fyn Island of 4th Century B.C. . There are, at present only a few parts of the world where glass beads are manufactured in traditional system as in Turkey & Cairo, which go back to prehistory period, currently glass beads are also produced in Japan, Czechoslovakia and Italy with improved machine and equipments, in India, Glass Beads are manufactured in Purdilnagar (Hathras), Firozabad, Marehara (Kasganj), Akrabad (Aligarh), Benaras etc. in U.P. These beads

are used for various purposes like garland, necklace, garments, curtains, jewellery and other decorative items. Purdilnagar, a town near the glass city Firozabad, is very popular for production of glass beads by the rural artisans, the history dates back to more than 400 years.

INDIAN SCENARIO

There is a growing demand for Glass Beads in the country in India . Glass Beads are being manufacture at Purdilnagar and Varanasi in U.P. however some superior quality beads are imported. There is good scope talking up manufacture of Glass Beads in any part of the country. Glass Beads have good export potential , as demand for these beads is increasing in foreign countries.

GLASS BEADS IN PURDILNAGAR (HATHRAS)

Purdilnagar is famous for glass beads making not only in India but also all over the world. Purdilnagar is also known as Shrangar Nagar. Glass Beads of Purdilnagar are supplied all over India and abroad. The work of Glass was started with the making of Glass bangles at Purdilpur in the period of Timur Lung. In the 14th century while Timur Lung was returning after invading India, he advised some soilders who were interested in Glass work to stay back, some soilders who were glass bangles makers, settled at Sikandra Rao, Distt- Hathras (U.P.) . They requested the emperor of Sikandra Rao to provide some land so that they can start their work of glass bangles making for their living. The emperor granted a piece of land about 4 Km, away from Sikandra Rao. It was a dense forest at that time. Thus all the glass bangles makers, who belonged to the Muslim community, were shifted to the allotted place, which is now called Purdilnagar.

GEOGRAPHICAL LOCATION

On on 3rd of May 1997 the creation of a new District named Hathras was announced by merging Sadabad tehsils of Mathura District and Hathras tehsil of Aligarh. The notification of creating Distt. Hathras was released on 06 May 1997. Purdilnagar is a small town famous for its beads and ceramic produce in Hathras Distt. U.P. It is located 43 Kms

from Aligarh and 35 kms Kms from Hathras. Purdil nagar made Glass beads are based on traditional craft. The beads of Purdilnagar are used for manufacturing of jewellery, artware goods and other decorative items. The manufacturing of Glass Beads in Purdilnagar is in an organized sector. Appx. more than 15000 individual small artisans are engaged in the manufacturing of glass beads and other glass products with traditional craft at their residence/homes.

PROCESS OF MANUFACTURING

Glass beads being handicraft item are manufactured mostly in cottage sector. The Glass beads are manufactured from glass rods and block glass by the skilled labour. Glass rods of assorted sizes and colours are easily available within the country produced in Firozabad. Some special glass of glass rods in multicolor and aventurines glass is imported. The art of manufacturing glass beads can be easily practiced by enthusiastic artisans. Glass beads are made by glass rods on a table blowing burner fitted with kerosene tank and foot below. A fine paste of china clay is applied to a piece of brass wire about 1 feet in length and of thickness as per required bore of the glass beads to be produced. The glass blower holds this piece of wire in one hand and the glass rods in the other hand. The worker then rotates the glass rod slowly against the flame of the burner. The glass is allowed to soften and the shape is then given by the skilled worker using tools, In some case simple hand operated presses and suitable moulds are employed to develop required shape of the glass beads. This process repeated in the brass wire is full with the formed beads, The beads are then removed from the wire by slowly pulling, the wire from one end. Design in different colour are made during the shaping of beads. Fine quality beads required grinding and polishing which some bead are given silver polishing . The beads are finally tied in bunch by means of fine strings and packed for sale.

The glass beads industry is highly labour intensive. Locally manufactured and fabricated machinery and equipment suited to the capabilities of the lesser educated work force are being utilized by the industry in almost all the operations involved in manufacturing of glass beads . There are two process of making – Pressed/Rolling method and Blow lamp method.

PRESSED /ROLLING METHOD

A skilled artisans takes glass rods as a raw material into a pot furnace and melt it at a temperature of 500 to 600°C by the fuel of wood. Take molten glass and rolled on a tip of a iron rod and pressed into given design/shap. Almost 15 to 20 artisans do their work at a time on a single furnace and pot capacity of glass 2 to 5 kgs.

BLOW LAMP METHOD

There is a type of wooden table where they use a manual blower operated by foot of artisans and they use a burner heated by kerosene oil as a fuel and a temp. of 600 to 700°C they use glass rod as a raw material and melted by the burner and pressed it in a particular die of different sizes and shapes to obtain design die of different sizes and shapes to obtain desire deisgn die is made by brass.

First they constructed one round shaped three pot wood fire traditional klin made of locally available pond clay. They mix certain quantity of wheat straw and chopped dry glass with pond clay for controlling drying as well as firing shrinkage. Glass melting pots of about 18"long X12" width X 3" height were fabricated by hand molding using pond clay and wheat straw, so that 10-12 kg glass could be melted at a time in each pot. They collected reh (highly alkaline soil) from nearby fields is mixed with cutlet and melted in the mud made wood fired klin. Thus produces green coloured glass. Iron content with the reh developed

green colour to the glass. Hence during this time only green coloured glass bangles were manufactured and worn by the women. They used raw bone powder to produce white colour glass. The raw bone were collected from the forest and reduced to small size by hammering. The reh, bone powder and cullet were charged in the glass melting pots and heated over night and glass bangles making was done in the next day.

For making black colour glass powdered by dung of sheep and goats and magnise oxide were thoroughly mixed with the molten mass of reh and cullet with the help of long iron tools. All the glass bangles makers of muslim community were progeny of Mughal.



TYPE OF GLASS BEADS

Blown Glass Beads, Chevron Glass Beads, Crystal Glass Beads, Faceted Glass Beads, Fish Glass Beads, Flower Glass Beads, Frog Glass Beads, Frosted Glass Beads, Furnace Glass Beads, Fused Glass Beads, Glass leaf Beads, Glass Mushroom Beads, Glass Pearl Beads, Glass Seeds Beads, Gold Foil Beads , Handmade Glass Beads, Heart Glass Beads, Lamp work Glass Beads, Oval Glass Beads, Plain shiny Beads, Matte Glass Beads, Rainbow Glass Beads, Craft Glass Beads, Round Glass Beads, Millefiori Glass Beads, Transparent Glass Beads, Wedding Cake Beads.



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MAIN EXPORTERS IN THE FIELD OF GLASS BEADS

- EMERALDS EXPORTS, PURDILNAGAR
- BALAJI EXPORTS, PURDILNAGAR
- MAHESHWARI EXPORTS, PURDILNAGAR
- RAVI EXPORTS, PURDILNAGAR
- GIRISH EXPORTS, PURDILNAGAR
- GUPTA EXPORTS, PURDILNAGAR
- MOGLI EXPORTS, PURDILNAGAR



METAL CRAFT CLUSTER HATHRAS

GENERAL MANAGER
DISTRICT INDUSTRIES CENTRE
HATHRAS

NAME OF HANDICRAFT - METAL CRAFT

DISTRICT- HATHRAS

HISTORY/ORIGIN OF HANDICRAFT

Metal craft/ Metal art is native of the town Hathras. This Metal craft covers the manufacturing of art ware items like brass lamp sheds, flower vases, pooja items, statues of God and Goddesses, candle stands, decorative items (birds, wind chimes) and decorative items/utensils of different shape and sizes. The People of Thathera (ठठेरा) caste were engaged in the business of manufacturing of brass and copper utensils. When the Brass and copper utensils were replaced by steel utensils and the business declined, they diversified above business/industries into metal craft industries.

Area/ Villages of Metal craft Industries:-

The Metal craft industries are situated in the town Hathras itself. Artisan of this craft are working and manufacturing the handicraft products in their houses of surrounding villages of Hathras.

Description of Handicraft:-

(a) **Material being used:-** Brass/Copper and silver sheets and non-ferrous castings are used for the manufacturing of above articles /products.

(b) **Brief description of process:-**

Cutting of brass/copper/metal sheets- according to the shape and size of handicraft articles and non ferrous castings .

Gas welding to make the hollow shape of the articles/products.

Filling of lead/molten material in to the hollow shape of the engraving/carving/inlay work is done with hand tools by the artisans/craftsmen.

After above craft work buffing/polishing is done on the article.

Anodizing/electroplating to make the shining/ glaze on the products.

Polishing is done to make the antique look.

Finished product to sale.

Source of raw material and design:-

1. Designs are prepared by master craftsmen /antigns locally.
2. Brass/Copper sheet are supplied by the local hardware stores and also procured from the brass/copper sheets manufacturers.
3. Brass castings are made locally in Hathras by sand /crucible casting process. Metal scrap is melted in the crucible and pit furnish and poured in to the molds.

Communities/people engaged in the process:-

1. People of Thathera (ठठेरा) caste/community.
2. Other People trained by master craftsmen of Thathera (ठठेरा) caste/community.
3. No of people/artisans engaged in the production of metal craft articles-
 - (a). Direct - 2000 Artisans.
 - (b). Indirect - 3000 semi skilled Artisans/labourers engaged in different processes as mentioned above.

The Value of the production/sale:-

- 1 .Total Production - 30 Crs.
2. Total Export -
 - (a) Direct - 1 Cr.
 - (b) Indirect- 15 Crs.

Name of the Master craftsmen/artisans/retailers/wholesalers:-

1. Gopal Arts- Prop.-Gopal Das Verma,Aligarh Road, Hathras.
Mob. No.-9897511270.
2. Shanta International, Prop.- Rajkumar Verma.
3. Swami handicraft, Prop.- Jagdeesh Prasad Verma.
4. Silver Arts, Prop.- Ramesh Kolwal.
5. Nivedan Handicrafts, Prop.- Nivedan kumar, Bagla marg, Gali Bhojraj ,Hathras. Mob. No.-9412173740.
6. Maden Art Handicraft , Prop.-Madan Gopal , Bagla marg, Hathras. Mob. No.-9319913485.
7. M/s Harsh International, - Prop.-Yogesh Bagla , Naval Nagar, Hathras. Mob. No.-9760033085.
8. Naresh Handi Craft , Prop.-Naresh Verma , Bagla marg, Hathras. Mob. No.-9837052034.
9. Hathras Handicraft Aso.,- Kailash Kolwal, Mob. No.- 9410427800.
10. Ashish Kumar, Gali Tabela, Circular Road, Hathars.
Mob. No.- 8954041419.

Main Exporter in the field of Metal Craft :-

1. Naresh Handi Craft , Prop.-Naresh Verma , Bagla marg, Hathras. Mob. No.-9837052034.

Photograph of the Metal Craft products manufactured by above listed artisans:-











