

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad>



1. Introduction
2. Place
3. People
4. Process
5. Products
6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/introduction>

Introduction

India is the largest brassware making country in the world. This art has been practiced in India over thousand years. According to archeological records, brass was popular in India since the third century BC and most of the idols of gods and goddesses were made of this metal. Moradabad in the state of Uttar Pradesh is renowned for brass work and has carved a niche for itself in the handicraft industry throughout the world.



1. Introduction

2. Place

3. People

4. Process

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/place>

1. Introduction
2. **Place**
3. People
4. Process
5. Products
6. Contact Details

Place

Moradabad was established in 1600 by Murad, the son of the Mughal Emperor Shahjahan. Also called the 'Brass City' or 'Peetal Nagri', it has about 850 export units and 25000 metal craft industrial units in its cluster. In the narrow bylanes of the city, artisans work all day to create the most exquisite brass products that are exported the world over.



Outside Moradabad railway station



Streets of Moradabad

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/place>



Streets of Moradabad



Streets of Moradabad

1. Introduction

2. **Place**

3. People

4. Process

5. Products

6. Contact Details



Streets of Moradabad



Streets of Moradabad

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/place>



Streets of Moradabad



Streets of Bartan Bazaar (brass market)

1. Introduction

2. Place

3. People

4. Process

5. Products

6. Contact Details



Narrow bylanes of Moradabad where brass products are made



Streets of Moradabad

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/place>

1. Introduction

2. Place

3. People

4. Process

5. Products

6. Contact Details



Narrow bylanes of Moradabad where brass products are made



Narrow bylanes of Moradabad where brass products are made Water used to sprinkle on stone while carving.



A karkhana (workshop) where brass products are cast



A karkhana (workshop) where moulds are made

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/place>



A karkhana (workshop) where brass products are cast



A karkhana (workshop) where brass products are cast

1. Introduction

2. **Place**

3. People

4. Process

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/people>

1. Introduction
2. Place
3. **People**
4. Process
5. Products
6. Contact Details

People

Brass work in Moradabad is a small-scale and low-technology industry. Some of the artisans actually have their manufacturing units and workshops in their own homes. Quite naturally, the tradition of this art form is being passed on from one generation to the next. Most of the brass craftsmen here are Muslims and they take great pride in their work. Each one specializes in a skill (expertise) and handles that respective level of the production process.



A karigar with his brass plates



A karigar in a sand casting workshop

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

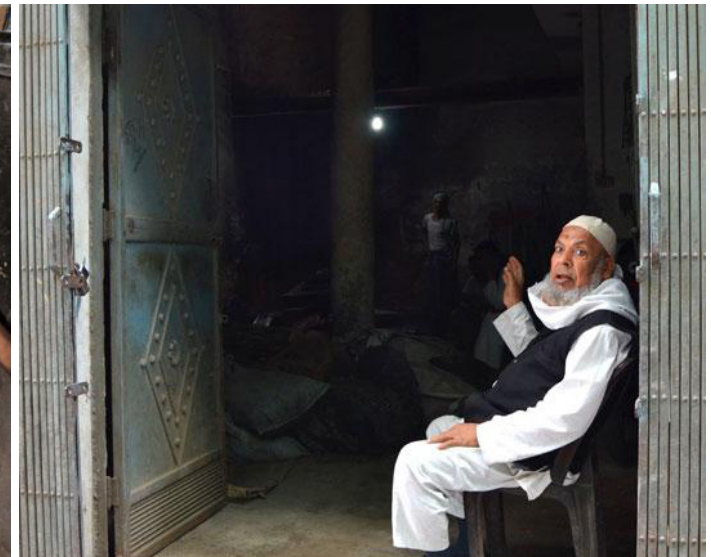
IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/people>



A karigar in a sand casting workshop



The supervisor of the metal melting workshop.



A karigar in a mould making workshop



A karigar in a mould making workshop

1. Introduction
2. Place
3. **People**
4. Process
5. Products
6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/people>

1. Introduction

2. Place

3. **People**

4. Process

5. Products

6. Contact Details



A karigar engraving on a brass plate



A karigar engraving on a brass bowl



A karigar engraving on a brass bowl



A karigar engraving on a brass vase

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/people>



A karigar engraving on a brass vase



A karigar engraving on a brass vase

1. Introduction

2. Place

3. **People**

4. Process

5. Products

6. Contact Details



A disabled karigar engraving on a brass vase



A karigar engraving on a brass pot.

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir
IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/people>



A karigar engraving on a brass bell stand



A karigar polishing a brass vase

1. Introduction
2. Place
3. **People**
4. Process
5. Products
6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process>

Process

There are six basic steps for making any brass product:



Mould Making



Melting



Casting



Scraping



Engraving



Polishing

1. Introduction

2. Place

3. People

4. **Process**

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/mould-making>

Mould Making

The first step is to make the mould or 'master-piece' from which multiple products would be replicated (cast). These are usually made of wax, as it is soft and easy to work with. Sometimes wood is also used. This 'master-copy' is always created in two (or more) detachable halves to make sand casting convenient.



Tools for carving the wax and wooden moulds



A brass cast heart and its corresponding wax mould (different size)

1. Introduction
2. Place
3. People
4. Process
 - 4.1. **Moulding Making**
 - 4.2. Melting
 - 4.3. Casting
 - 4.4. Scraping
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/mould-making>



Wax shavings



Mould for pen stand being made in wax

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Mould for pen stand being made in wax



Mould for pen stand being made in wax

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/mould-making>



Mould being made in wax



Mould being made in wood

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Moulds and tools



'Master-copy' for casting

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/mould-making>



'Master-copy' for casting



'Master-copy' for casting

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Two halves of the 'master-copy' for casting



The 'master-copy' (mould) and its corresponding cast

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. **Melting**
 - 4.3. Casting
 - 4.4. Scraping
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details

Melting

Brass is prepared by melting scrap-metal to approximately coal-fired furnace. The raw materials are a mix of many metals namely copper, zinc, lead, etc. in a specified ratio. A flux is also added to remove the impurities. These are molten in a huge container for about twelve hours to produce 350 kilogram of brass at one go. The molten metal is left to cool on basic iron moulds to form strips that are then sent to the casting craftsmen.



The furnace where brass is prepared by melting several metals



A melting workshop

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



The tools for churning molten brass



Raw materials for making brass



Raw materials for making brass



Flowers painted with stains on vases

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Brass shavings



Brass shavings being poured in the furnace



The furnace



Raw material for making brass

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Raw material for making brass



The furnace

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



A karigar churning the molten metal



Raw material being put in the furnace

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Raw material being put in the furnace



A melting workshop

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



A karigar churning the molten metal



Impurities being removed

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Impurities



Putting sand in the mould to prevent molten metal overflow

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Molten metal being poured in the mould



Molten metal being poured in the mould

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Testing the metal's ductility before pouring it out in strips



Molten metal being poured in the mould



Molten metal being poured in the mould



Molten metal being poured in the mould

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Molten metal being poured in the mould



Molten metal being poured in the mould

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Molten metal being poured in the mould



Karigars taking out the clay bucket

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Karigars taking out the clay bucket



Karigars pouring out the remaining molten metal

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. **Melting**

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



A karigar lifting the metal strip



Molten metal strips

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/melting>



Molten metal strips



Brass metal strips after cooling

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. **Melting**
 - 4.3. Casting
 - 4.4. Scraping
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>

Casting

Sand casting is the traditional method of making brass ware. Sand is used in the two halves of the mould box to cast the metal which is prepared by packing sand (locally called 'masala') around the 'master-copy' tightly. The chemical binder in the sand aids in holding the shape of the mould after which it is removed and molten metal poured in its cavity. After being allowed to cool for few minutes, the cast metal is removed from the mould box. The sand and the 'gating' (path way made in the mould for directing the flow of molten metal into the cavity) are broken from the cast using a hammer. These are re-used in the next casting.

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. Melting
 - 4.3. Casting
 - 4.4. Scraping
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details



A karigar breaking the brass strip into smaller pieces



A karigar breaking the brass strip into smaller pieces

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



Tools at the casting workshop



Pieces of brass

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. Melting
 - 4.3. **Casting**
 - 4.4. Scraping
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details



Pieces of brass being heated in the furnace for casting



Pieces of brass being heated in the furnace for casting

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



A karigar preparing the mould box with the 'master-copy' and sand



A karigar preparing the mould box with the 'master-copy' and sand



A karigar preparing the mould box with the 'master-copy' and sand



A karigar preparing the mould box with the 'master-copy' and sand

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



A karigar preparing the mould box with the 'master-copy' and sand



A karigar preparing the mould box with the 'master-copy' and sand



A karigar preparing the mould box with the 'master-copy' and sand



'Master-copy' is removed from the mould box and a cavity is created

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



'Master-copy' is removed from the mould box and a cavity is created



Molten brass is picked up from the furnace to be poured in the mould box

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Molten brass being poured in the cavity



Molten brass being poured in the cavity

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



Molten brass being poured in the cavity



Molten brass being poured in the cavity

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Molten brass being poured in the cavity



Molten brass being poured in the cavity

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



After cooling off, mould box is opened to remove the cast



Gating' being hammered off from the cast



Gating' being hammered off from the cast



Gating' being hammered off from the cast

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



A rejected cast



Some more casting



Brass casts



Hammered pieces of brass to be re-used in the next casting

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/casting>



Brass casts with sand on them



Brass casts

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. Melting
 - 4.3. **Casting**
 - 4.4. Scraping
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details



Brass mould ('master-copy') and cast

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/scraping>

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. Melting
 - 4.3. Casting
 - 4.4. **Scraping**
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details

Scraping

The cast metal is mounted on a cylindrical wooden block, which in turn is attached to the headstock of the lathe machine. Various chisels and files are used to scrap the spinning cast and smoothen its surface of any irregularities. Sometimes when the product is made in parts, it is first welded together and then sent for scraping and polishing. Metal shavings are re-used in the next melting



A scraping workshop in full swing



Small tumblers to be scraped on the lathe

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/scraping>



A mix of scraped and not-scraped tumblers



The filing tool attached to the lathe machine to scrap the tumbler

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



The filing tool attached to the lathe machine to scrap the tumbler



The filing tool attached to the lathe machine to scrap the tumbler

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/scraping>

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



The filing tool attached to the lathe machine to scrap the tumbler



The filing tool attached to the lathe machine to scrap the tumbler



The wooden block attached to the headstock of the lathe machine to scrap the tumbler



The wooden block attached to the headstock of the lathe machine to scrap the tumbler

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/scraping>

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



The wooden block attached to the headstock of the lathe machine to scrap the tumbler



The wooden block attached to the headstock of the lathe machine to scrap the tumbler



A scraping workshop



The wooden block attached to the headstock of the lathe machine to scrap the tumbler

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/scraping>



Scraped tumblers

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. Melting
 - 4.3. Casting
 - 4.4. **Scraping**
 - 4.5. Engraving
 - 4.6. Polishing
5. Products
6. Contact Details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/engraving>

Engraving

Engraving is the most refined and artistic of all the processes. The design that has to be engraved is first sketched on paper and then scaled-up according to the size of the product. Measurement is an important aspect to make the pattern look harmonious and lyrical. These are mainly inspired from different forms of nature like trees, flowers, birds and animals. The geometric ones have their influence from the Mughal architecture.

First, an outline of whole design is done with a fine engraving tool hammered with a wooden block. After that, broader tools are used to engrave the background and give depth to the pattern. These are often filled with colorful lac or enamel.

1. Introduction
2. Place
3. People
4. Process
 - 4.1. Moulding Making
 - 4.2. Melting
 - 4.3. Casting
 - 4.4. Scraping
 - 4.5. **Engraving**
 - 4.6. Polishing
5. Products
6. Contact Details



Engraving on a flower vase



A flower vase with incomplete engraving

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/engraving>



Pencil sketched design being engraved with varying depths for enamel



Pencil sketched design being engraved with varying depths for enamel

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

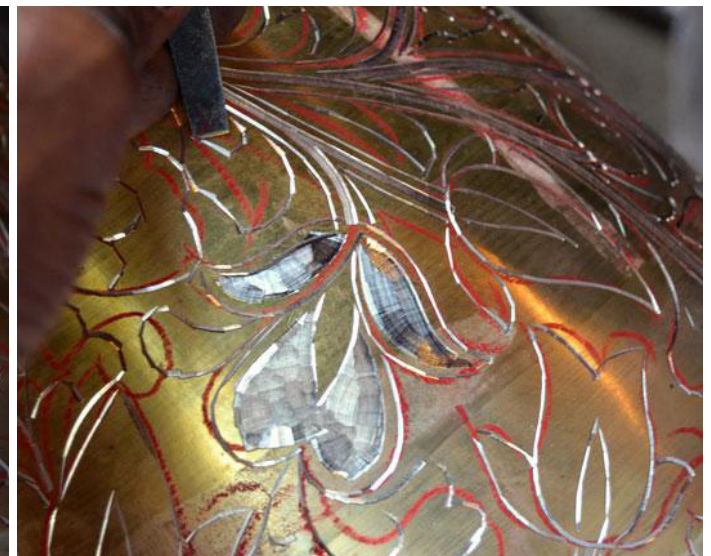
4.6. Polishing

5. Products

6. Contact Details



Engraving on a large platter



Engraving on a large platter

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/engraving>

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Engraving on a large platter



A karigar engraving on a large platter



Engraving on a flower vase



Engraving on a small bowl

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/engraving>



Engraving on a thaali (platter)



Engraving on a small bowl

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



A bowl with engraving details



A bowl with engraving details

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/engraving>



Engraving on a thaali (platter)



A thaali (platter) with engraving details

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Engraving on a flower vase



Engraving on a flower vase

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/polishing>

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details

Polishing

Polishing mainly includes cleaning the brass ware with a soft scrub and then buffing it on the machine for golden sheen.



A polishing workshop.



A karigar polishing (buffing) a brass flower vase.

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/polishing>



A karigar polishing (buffing) a brass flower vase

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. Polishing

5. Products

6. Contact Details



Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/process/polishing>

1. Introduction

2. Place

3. People

4. Process

4.1. Moulding Making

4.2. Melting

4.3. Casting

4.4. Scraping

4.5. Engraving

4.6. **Polishing**

5. Products

6. Contact Details



Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>

1. Introduction
2. Place
3. People
4. Process
5. **Products**
6. Contact Details

Products

The range of brass products from Moradabad include idols for worship, flower vases and planters, surahis (round pots), tableware (plates, bowls, boxes etc.), ash trays, diyas, candle stands, instruments, locks and fittings, hookahs, antique jewelry, furniture and trophies made by skilled artisans.



Idol for worship (Krishna and Radha)



Idol for worship (Ganesha)

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Idol for worship (Hanuman)



Decorative piece

1. Introduction

2. Place

3. People

4. Process

5. **Products**

6. Contact Details



Idol for worship (Krishna and Radha)



Idol for worship (Saraswati)

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Decorative pieces



Idol for worship (Krishna and Radha)

1. Introduction

2. Place

3. People

4. Process

5. **Products**

6. Contact Details



Crucified Christ



Dancing Natraja

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Flower vase



Engraving details of a flower vase

1. Introduction

2. Place

3. People

4. Process

5. **Products**

6. Contact Details



Flower vase



Flower vase

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Flower vase



Flower vase

1. Introduction

2. Place

3. People

4. Process

5. Products

6. Contact Details



Surahi (pots)



Thali (platter)

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Engraving details of a flower vase



Engraving details of a flower vase

1. Introduction

2. Place

3. People

4. Process

5. **Products**

6. Contact Details



Engraving and enamel details of a flower vase



Engraving and enamel details of a flower vase

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Flower vases



Engraving details of a bowl

1. Introduction

2. Place

3. People

4. Process

5. Products

6. Contact Details



Set of bowls



Engraving and enamel details of a bowl

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

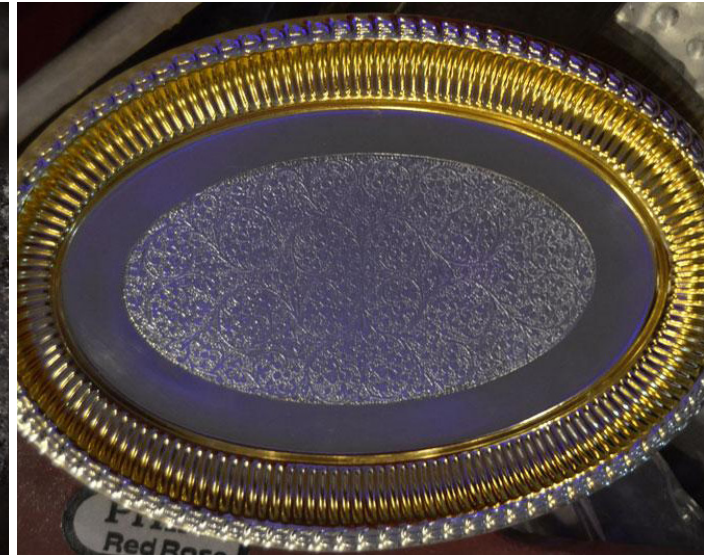
IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Engraving details of a bowl



Plate

1. Introduction

2. Place

3. People

4. Process

5. **Products**

6. Contact Details



Chair



Engraving details of a chair

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Engraving details of a chair



Peacock diya

1. Introduction

2. Place

3. People

4. Process

5. **Products**

6. Contact Details



Bell with swinging hook



Flowers with planter

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>

1. Introduction

2. Place

3. People

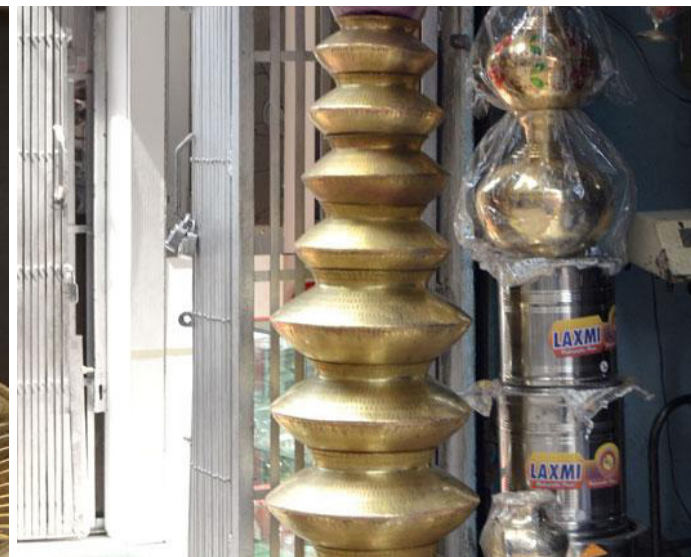
4. Process

5. **Products**

6. Contact Details



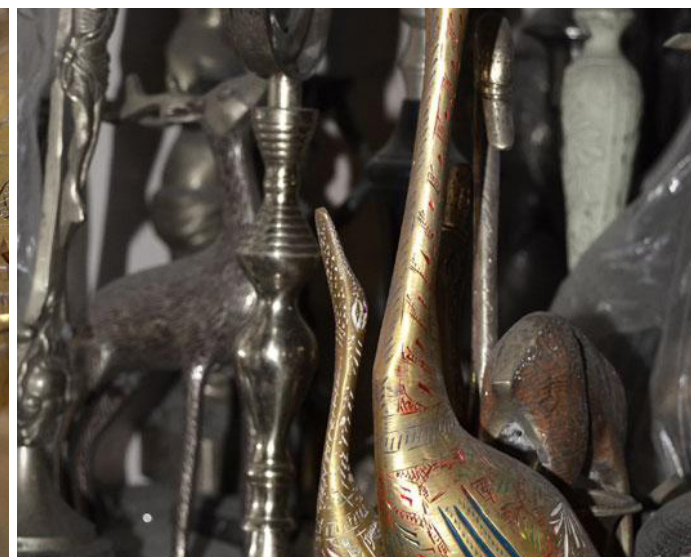
A set of serving lota (pot) and glasses



Matke (pots) of different sizes



Engraving on a flower vase



Decorative pieces

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/products>



Bells



Planter-holder

1. Introduction
2. Place
3. People
4. Process
5. **Products**
6. Contact Details



Sun wall hanging



Idol for worship (Krishna and Radha)

Design Resource

Brass Work of Moradabad

Making of Brass Product

by

Sakshi Gambhir

IDC, IIT Bombay

Source:

<http://www.dsource.in/resource/brass-work-moradabad/contact-details>

Contact Details

This documentation was done by Sakshi Gambhir, IDC, IIT Bombay.

You can get in touch with her at [sakshigambhir\[at\]gmail.com](mailto:sakshigambhir[at]gmail.com)

For further details you can contact to:

Anant Kumar Jain

Email: jainmetalsmbd@gmail.com

You could write to the following address regarding suggestions and clarifications:

Helpdesk Details:

Co-ordinator

Project e-kalpa

Industrial Design Centre

IIT Bombay

Powai

Mumbai 4000 076

India

Phone: 091-22-25767820/ 7801/ 7802

Fax: 091-22-25767803

Email: [dsource.in\[at\]gmail.com](mailto:dsource.in[at]gmail.com)

1. Introduction

2. Place

3. People

4. Process

5. Products

6. **Contact Details**