

Mumbai Maharashtra India

jewelry wholesale production design
smallterm internship
09.05.12 - 19.05.12

visit of wholesale suppliers of antique jewelry bride jewelry
bangles and any other pieces of jewelry:

- ◊ Forever
- ◊ SJR
- ◊ ROYAL BANGLES AND CHAINS
- ◊ Shringar
- ◊ Kanchan Jewellers
- ◊ Arham Jewels

visit of production plants:

- ◊ SUMONA JEWELS
- ◊ STAR BANGLES
- ◊ Shree Momai Krupa Jewellers
- ◊ NAICE

processes:

- ◊ traditional indian goldsmith handcraft
- ◊ enamelling engraving stone setting punching rhoduna
- ◊ mechanical-machinemade production
- ◊ lasercut and CAD engraving
- ◊ casting and master generation with CAD through milling and 3d-printer

design - visit of:

- ◊ three units of Sir Gautam Banerjee’s Academy of Jewelry Design
- ◊ manual jewelry design / scetch department of NAICE
- ◊ CAD with Rhinoceros Gold at the CAD department of NAICE



joint for necklace flexibility



closing device and hinge



trinket link chain



backside ringnet



Kanchan Jewellers

Supplier of indian
antique design,
handcrafted jewelry

10.05.12



10.05.12



Shringar
HOUSE OF MANGALSUTRA
product pricing and merchandise

A bride from Kerala wears up to
5 kg of gold on the day of her
wedding
1 LAK $\approx$ 1500 €
1 kg of gold $\approx$ 30 LAK $\approx$ 45.000 €
5 kg of gold $\approx$ 225.000 €



Royal Bangles and Chains

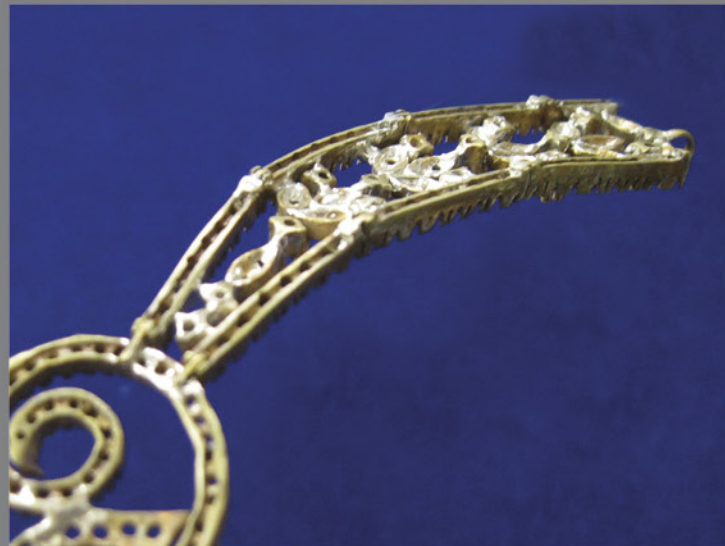
left: handpaint on gold
bottom: closure



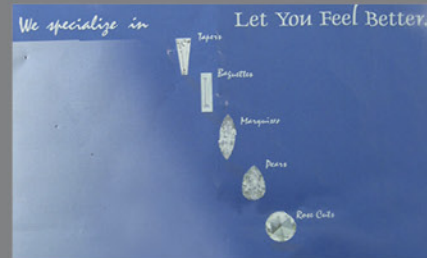
german silver prototype with joints for necklace flexibility



closing device and hinge 11.05.12



Arham Jewels



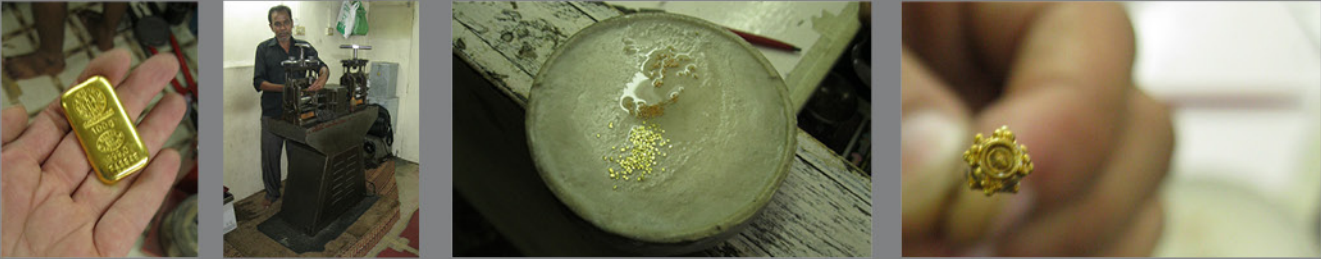
heart shaped diamant 12.05.12



SUMONA
Jewels PVT. LTD

Shree Momai Krupa Jewellers
Manufacturers of Exquisite Gold & Diamond Jewellery

chains bangles pendants earrings
enamelling engraving punching



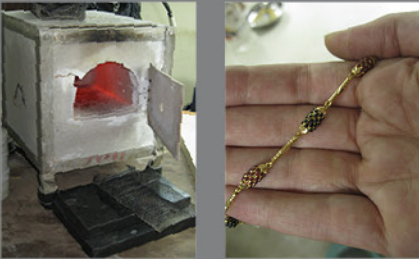
traditional indian goldsmith handcraft
11.05.12



- ◇ mixable glas powder
- ◇ liquified with acid
- ◇ traditional oven

- ◇ gold bar
- ◇ manual roller
- ◇ traditional oven
- ◇ copper gold mix
- ◇ fine joints
- ◇ solding

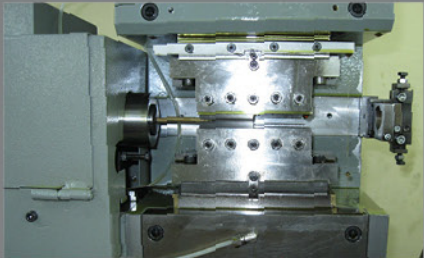
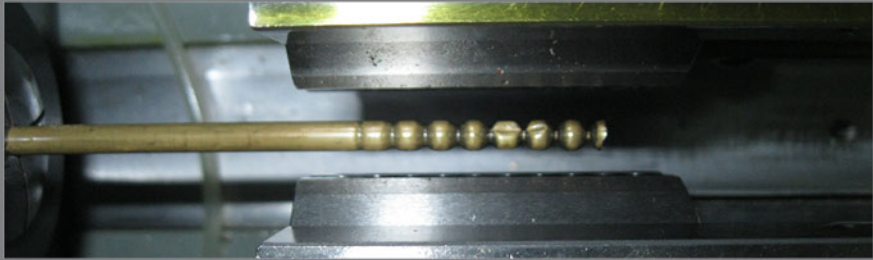
- ◇ engraved surface of chain element
- ◇ tool with diamant as cutter
- ◇ 200 different shapes possible



Shree Momai Krupa Jewellers

- mechanical-machine made bangles and chain elements
- ◇ the base is a pipe
 - ◇ prototypes are made of brass
 - ◇ to obtain an accurate pipe a brass band is prepared precisely
 - ◇ the brass band is successively banged and solded to a pipe
 - ◇ the pipe is stretched to the diametre and pressed into the form of the wanted design





11.05.12

wire production and roller



ball production



punching



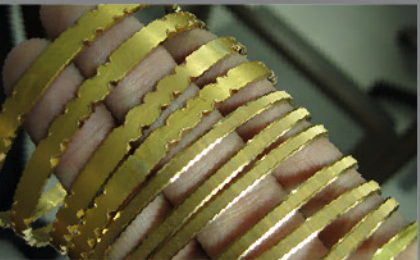
tool for a solid bar bangle



assembling of a bangle made of single elements



lasercut on surface - molding blank



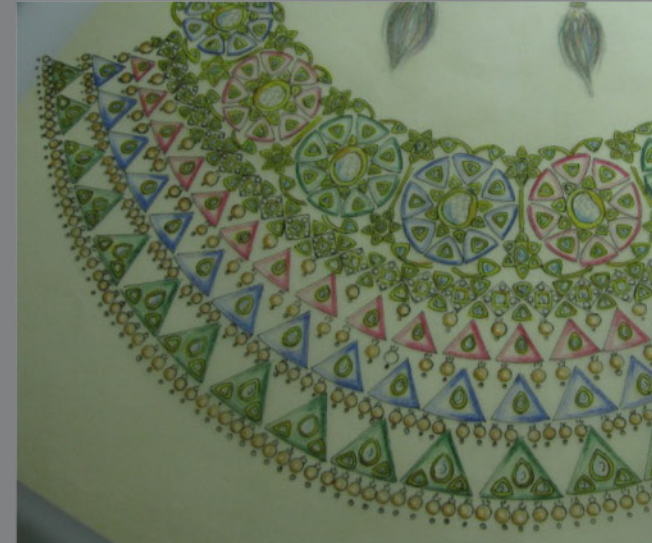
STAR BANGLES

Mfg. of all kind of
Machine Bangles

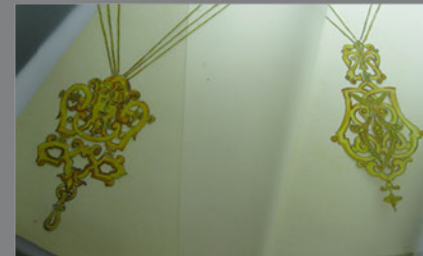
11.05.12



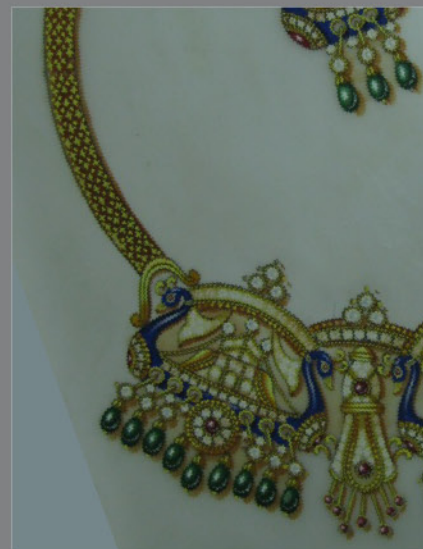
GAUTAM BANERJEE'S
Academy of Jewellery Designing



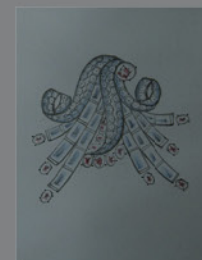
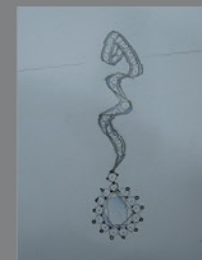
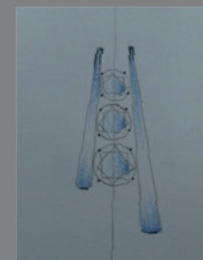
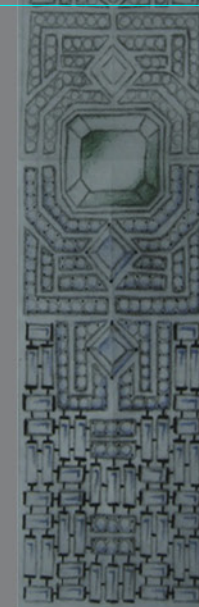
GAUTAM BANERJEE'S
Academy of Jewellery Designing



Sir Banerjee's sketches



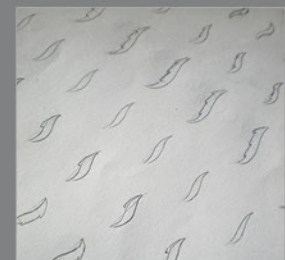
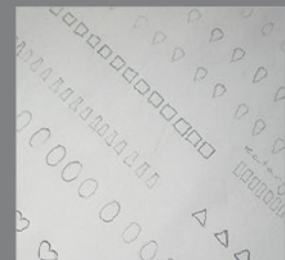
student sketches



10.05.12. - 13.05.12. - 17.05.12. 4 hrs



my exercises





rubber press



Sir Gautam Banerjee's production
site
handcraft CAD casting



wax injector



molding
◇ the precise master is done in the harddepartment
◇ a negative is pressed into rubber
◇ the volume is filled with wax
◇ plaster is then poured over the mold
◇ after the plaster sets, the wax mold is removed through melting
◇ the plaster mold is then baked
◇ liquid metal is then poured into the hollow
◇ after the metal has solidified, the plaster is broken from the cast part
wax mold



gold piece



diamant setting

◇ the gold piece is embedded in laquer
◇ the prong grips the diamant
◇ the laquer is removed through melting



assembling



polishing

rhoduna



◇ grey metallic colour layer on gold
◇ soak piece in rhoduna solution
◇ steam machine cleaning
◇ ultrasonic cleaning



12.05.12 german silver prototype closing device and hinge



variable aplication earring pendant or broche - screw closure - clip - joint for necklace flexibility



sketch and produkt



Lord Krishna



12.05.12



NAICE
Naice Jewels Pvt. Ltd

Manufacturer's & Exporter's
of Diamond Jewellery

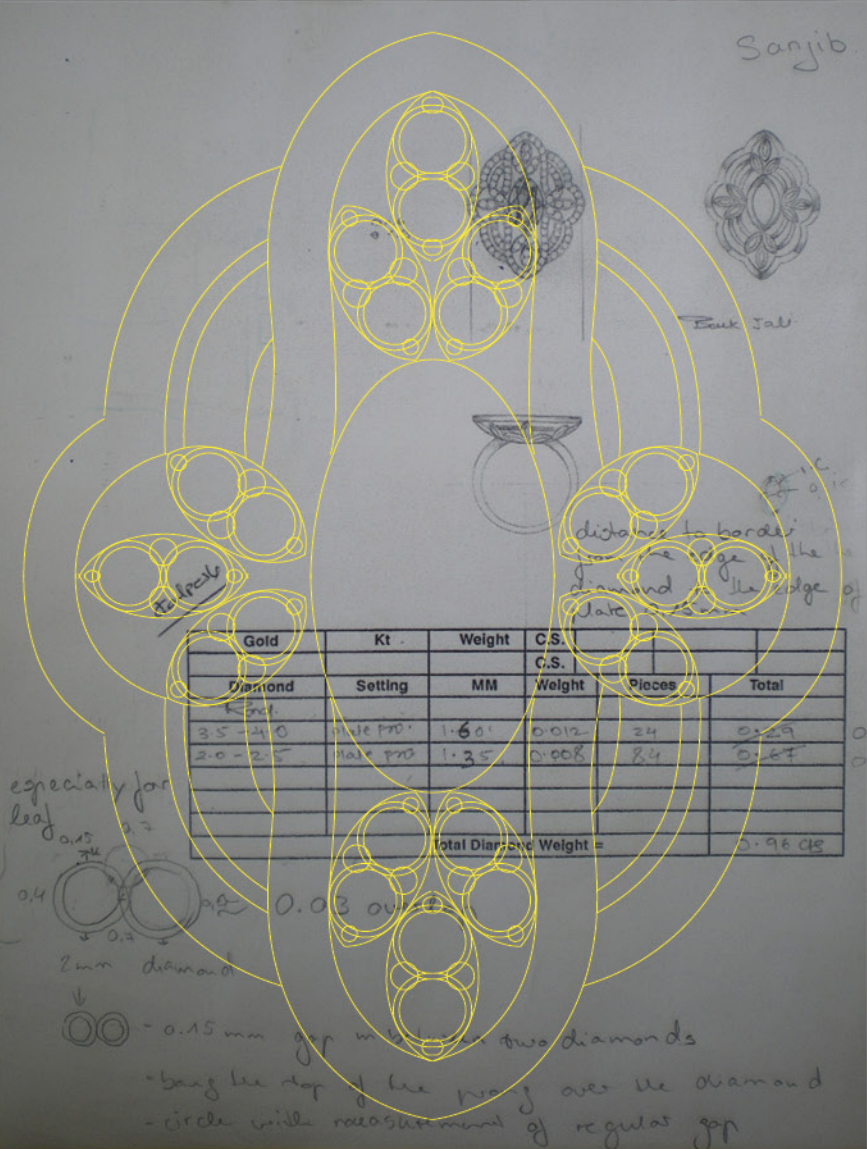
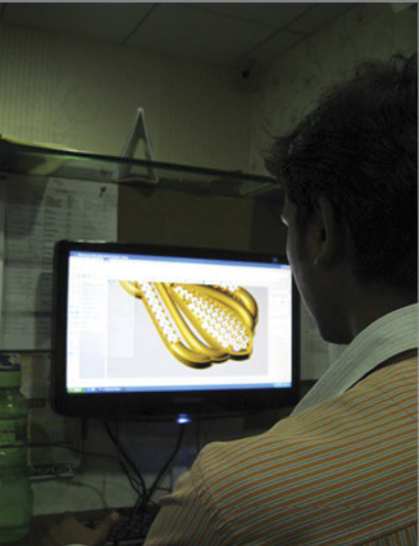
14.05.12 - 18.05.12

sketch design department

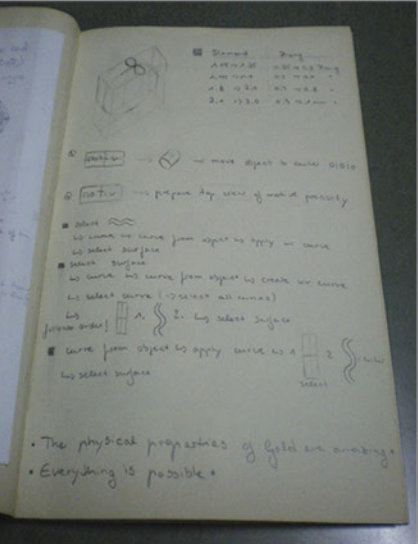
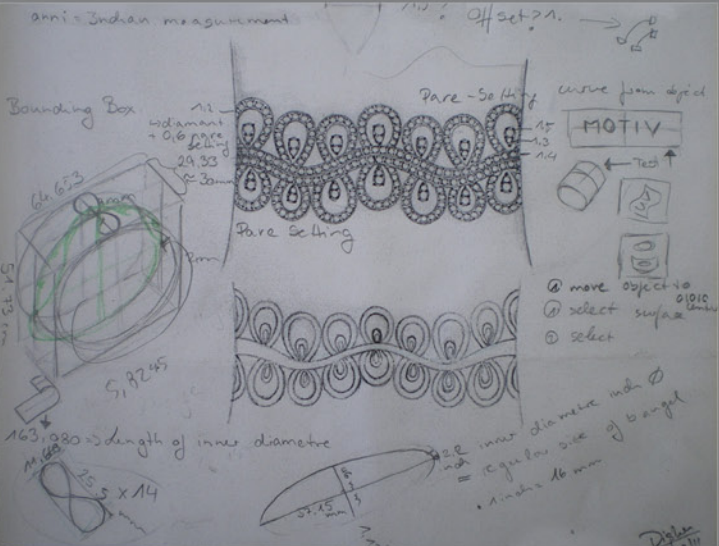
CAD design department
Rhino Gold
JewelCAD



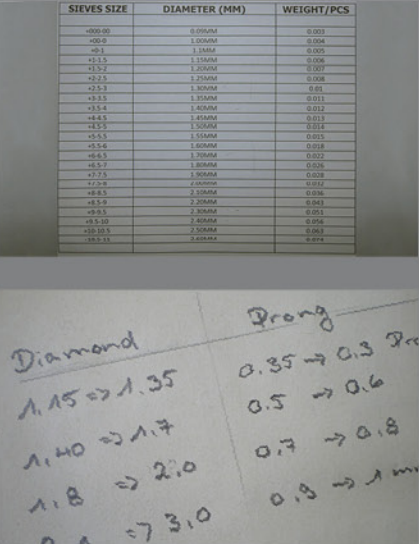
my path work



prong setting



setting up a Rhino Gold file



14.05.12 - 18.05.12

NAICE
Jewels Pvt. Ltd