



## ORIGINAL RESEARCH PAPER

## Clothing and Textile

## JEWELLERY FROM WASTE MATERIAL

**KEY WORDS:** Jewellery, Waste, Recycling, Eco friendly.

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## ABSTRACT

The document is related to the study of jewellery designed from waste material. A project work conducted by the polytechnic students of Bharuch, Gujarat. "Designing jewellery from waste". The designs were developed after gathering the preferences of the waste. Most of the solid waste was collected by the students. On the basis of the preferences gathered from the judges through questionnaire method, five designs were selected for developing the jewellery. The objective of the study was to identify different waste suitable for jewellery making and further designing the jewellery. This study is also about, exploring ways to connect different waste materials by looking at what is in front of you and work with these limitations.

## INTRODUCTION:

Jewellery was always part of human culture. Even from the times when man started using clothes and tools some 100,000 years ago. Even the excavations at the sites of Harappa and Mohenjodaro have revealed huge amount of beads in a variety of materials and shapes used with gems and stones. Jewels were made from any kind of material that was available- stone, animal skins, feathers, plants, bones, shells, and wood and semi precious materials such as obsidian. As time went on the advancing technology enabled and influenced artisans to create modern jewellery styles.

The advancing technology also showed its side effects causing environmental and social hazards. Among which Environmental Pollution is the major issue in today's life. City's garbage problems are not new, and yet we are nowhere close to solving them. As the government, environmentalists and activists continue to look for sustainable solutions, the younger ones are joining the cleanliness revolution. The wealth out of waste concept has slowly been gaining attraction in the states, with many choosing to use waste items to create art, jewellery or ordinary household items. And it's not just eco-friendly, but also a great artistic outlet and economic. It's sometimes a hard concept for people as they love to hold on to what they have, even if they don't wear the pieces in their original form anymore. By dismantling not worn or broken jewellery you create lots of resource full materials in the shapes of beads to integrate into new pieces.

## LITERATURE REVIEW:

Jewellery is purely decorative accessory made of material considered to be precious or aesthetically pleasing. Archaeological remains indicate that such materials as shells bone, ivory, amber or shiny rocks were used for jewellery in prehistoric times. Artists designed and skilled craftsmen created the pieces. After industrial revolution, when more mechanised equipments were developed, jewellery making became less expensive and available to common men and women.

The use of expensive material such as gold, silver, precious gemstones and diamonds increase the cost of jewellery. Even their mining from the nature causes a lot of environmental harm. So, it is a better idea to switch over to cultured gemstones or even better option of using left over, waste material that are safe for the environment and cheaper compared to natural stones, gold or silver.

Handmade hand twisted newspaper yarn from recycled newspapers have been used for jewellery making. A unique ethical yarn which is magical for jewellery making, weaving, basket making and fibre arts. It has been made especially by women co-operative at pune in India from newspaper waste. The colours, the chunky texture, it really is simply marvellous yarn. Also leftover waste silk fibers from sari manufacturing have been used for jewellery making in India.

A Moradabad farmer's life took a turn when he was convicted for

murder of his wife Paanvati on June 4, 2009, due to unknown reasons and since then has repeatedly expressed his love for her. It made him turn to creative work. He spends his time making artificial jewellery from the waste material like toffee wrappers, tobacco pouches, discarded clothes and plastic wire. Explaining how he goes about fashioning a necklace with waste material, he says, "I use clay to make beads and cover the clay with the plastic wrappers and then I use old clothes, thread to complete the necklace."

An investigation work was conducted under the college of home science, Punjab agricultural university in Ludhiana city of India. The investigation concluded that 87.78% of people were aware of jewellery developed from solid waste. 64.44% were ready to use recycled solid waste and 66.67% of people were interested to use jewellery from recycled solid waste.

Stone Arrow has been designing and manufacturing jewellery for 20 years and for the last six it has shifted its focus to a sustainable supply chain, sourcing only sustainable materials. It now produces copper and silver from 100 per cent recycled metals, as well as transforming old bottles to beautiful jewellery. The company is a living example of a thriving business making a profit transforming a waste product into something beautiful as well as running a sustainable and ethical business. Debuting their products at the Nairobi Fashion Market, Victorious Bone Craft's motto is "nothing goes to waste".

The collection of eco-friendly jewellery has been designed by Mana Bernardes, an eco designer based in Brazil. Mana worked with Rio De Janeiro and transformed waste items like circuit boards, plastic bottles, phone cards and hairpins into stunning pieces of jewellery.

There are beautiful pieces of jewellery that are made of waste materials like coupons, crossword, Sudoku, stock lists and comic strips. Basically, the whole collection was made of recycled paper. The American designer who creates such masterpieces is Holly Anne Mitchell. The designs are amazing and you can find every type of jewellery like earrings, cufflinks, necklaces and bracelets. The funkiest jewellery that was ever made up was of electronic parts. Circuit boards, capacitors, resistors, ink pen cartridges all have been converted into interesting pieces of jewellery. This can prove to be the most innovative and trendy way of reducing plastic waste.

Kumvana Gomani, an intelligent jewellery designer who artistically cut the useless plastic bottles into designs that resemble snowflakes and crystalline leaves. She joined these designs and made beautiful jewellery that looked modern with trendy dresses. The collection also included recycled platinum and gold.

Akawelle's jewellery was handmade out of bullets from the Liberian war, which ended in 2003. Designer Lovetta Conto crafted leaf-shaped pendants from used, melted bullet shells, emblazing them with the word "LIFE" as a symbol of survival

through hardship.

Elvis and Kresse used decommissioned hoses from the British fire brigade to craft sharp, stylish and sustainable lifestyle accessories. The Fire-Hose range includes belts, bags, wallets, card holders, and iPad cases.

Hence there is endless list of designers and artists who have worked in the field of recycling the waste. Few solid waste includes metallic leather cut offs, vintage ribbons, natural cork, and lacquered wood, peach pits, driftwood, telephone wires, machine parts, pencil eraser caps, chandelier crystals and even rabies tags, vintage buttons and even Nespresso Coffee Capsules.

George success azanda, designed jewellery from cattle bone as material is light in weight, shiny and brittle. The cattle bones were even dyed to enhance its wear ability.

**Motifs and Designs:**

The designs developed are floral, geometric patterns and abstract designs.

**Material used for preparing the jewellery:**

Left over fabric and torn fabrics, old and torn paper, bottle caps, pen caps, cold drink tin caps, screw, wire, polythene bags, cardboard, pista shells, straw from ear buds and sippers.

**Method of preparing the jewellery:**

The jewellery was created from the designed patterns using the waste material. The assembling part of the jewellery was done using beads, nylon threads, cardboard base, fevicol glue, fabric glue, old brocade fabrics, fabric paints. Metal hooks and studs frames were used for pendants, necklace and earrings were used for openings or joining the jewellery structure.

**Questionnaire:**

A Questionnaire was conducted to obtain the opinion with regard to preference of the waste used, Feasibility of the design in to meaningful jewellery, Overall appearance and marketability of the designed jewellery. The questionnaire was then filled by 25 consumers and 25 diploma students. The reason was selecting the specific style was known.

**Result:**

The best five jewellery that scored high with respect to preference of the waste used in designing jewellery. Feasibility of the design in to meaningful jewellery. Overall appearance and marketability of the designed jewellery.



Figure 1- Best five Jewellery preference obtained for the best solid waste material are cold drink bottle caps, old

**fabric like denim, waste from pencil scrap and waste chart paper.**



Figure 2- Best Jewellery preferred with reference to aesthetic appearance are material from Old CD's, old sari fabric like polyester and waste chart paper.

**Conclusion:**

The study conducted on "Designing jewellery from waste" was a creative enough to recycle solid waste. People preferred jewellery made of solid waste such as waste paper, plastic, fabric, pencil scraps and metal pieces in the form of cold drink caps. They were identified as the best raw material for reproducing in to light weight jewellery.68% people would prefer wearing recycled jewellery from solid waste. The designs provided the scope for good marketability. The study served the purpose of recycling the waste in to feasible and wearable jewellery.

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