



CRAFT RESEARCH AND RANGE DEVELOPMENT

DENIM DISORDER :THE ART OF UPCYCLING

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Abstract : Textile Waste Upcycling Fashion Collection: A Sustainable Approach to Revitalizing Discarded Materials Textile waste is transformed into high-quality, unique, and desirable products through innovative upcycling designs in this fashion collection. Reusing discarded materials, the collection tackles the environmental, economic, and ethical issues linked to the fashion industry`s wasteful practices. The featured clothing and accessories are all upcycled, from reused and recycled garments to innovative designs that transform textile waste into valuable resources. Through this Textile Waste Upcycling Fashion Collection, we demonstrate the potential for upcycling to become a mainstream solution in the fashion industry, driving positive change and fostering a more sustainable future.

Keywords: Fashion Upcycling and Textile waste.

1.INTRODUCTION

Textile waste upcycling in fashion is an innovative approach to reducing the environmental impact of the fashion industry by transubstantiating discarded cloth accoutrements into new, advanced- value products. This artisanal process requires creativity without artificial intervention, making it an environmentally friendly result to cloth waste. crucial differences from recycling and downcycling Upcycling differs from recycling, where accoutrements are broken down and reused into lower-quality products. In discrepancy, upcycling preserves the original material's quality and function, giving it a new purpose. This approach reduces the need for raw accoutrements , conserves natural coffers, and minimizes waste transferred to tips or incinerators. Challenges and openings The fashion industry generates significant cloth waste, with an estimated 12.8 of global hothouse gas emigrations attributed to it. Upcycling can help address this issue by Reducing waste By designing products that incorporate leftover accoutrements or repurposing discarded fabrics, upcycling minimizes the quantum of waste transferred to tips . Conserving coffers Upcycling reduces the demand for virgin accoutrements , dwindling the environmental impact of resource birth and processing. Promoting sustainability Upcycling encourages contrivers and consumers to borrow further conscious consumption habits, valuing continuity, order, and exercise over fast fashion's " throwaway " culture. Ultrapractical operations Upcycling can be applied to colorful cloth waste aqueducts, involving Pre-consumer waste Fabric scraps generated during product, similar as cut- offs, tapes, or imperfect accoutrements .

Post-consumer waste exercised apparel, fabrics, or fabric remainders discarded by consumers. End- of- life productions Clothing or fabrics reaching the end of their life circle, which can be converted into new productions. project considerations operative upcycling in fashion requires careful project reflection, involving substance election Choosing accoutrements that are able for upcycling and can be converted into new productions. project inflexibility Allowing for project variations to accommodate the characteristics of upcycled accoutrements . Collaboration working out with suppliers, manufacturers, and consumers to develop unrestricted-circle systems and encourage sustainable practices. unborn prospects As the fashion industry shifts towards a further indirect frugality, upcycling is poised to play a significant part in reducing waste and promoting sustainability. With ingenious project approaches, technological creations, and swelled consumer mindfulness, upcycling has the implicit to come a mainstream result for cloth waste operation in fashion. The fashion and cloth industry is one of the world's most contaminating diligence, substantially because its measure of product peewees most other diligence. fabrics product requires a lot of land for crops and uses a lot of water, dynamism, chemicals and other coffers leaving frequently undressed toxin before and has a largely inhospitable environmental, profitable and gregarious footmark(Fletcher, 2008; GFA & BCG, 2017; Hiller Connell & Kozar, 2017; Leal et al., 2019; Remy et al., 2016). moment's usual fashion and garment industry is direct by nature and in extension to the jolt that raw substance birth for recently produced fibre product

has, cloth waste has come a major case in the region (Ellen MacArthur, 2013, 2017). The quantum of waste created is truly significant, as the European Union (EU) cloth assiduity alone generates around 16 million tonnes of cloth waste annually (European Commission, 2017). Important of this waste moment still ends up in tip or is incinerated. This represents a loss from a product trouble which uses millions of tones of water and kilowatts of dynamism, and innumerable hours of mortal labour that could be rescued (Leal et al., 2019).

2. REVIEW OF LITERATURE

In this work, a useful perspective on recycled fibers derived from textile waste has been presented by illustrating relevant applications in recent scientific studies. Fibers produced from textile waste have been effectively incorporated into organic and inorganic mixtures, with natural and/or synthetic components, testing mainly the mechanical, acoustic, thermal and electrical characteristics.

In particular, recycled fibers, mainly cotton, have been added to thermosetting resins as reinforcement for structural applications, also with the aim of replacing the traditional harmful glass fibers. In the field of the plastics, Recycled cotton was introduced to achieve a reinforcing effect in automotive components, while silk and wool were used for their insulating properties in printed circuits.

2.1

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2.2

In all sections, great innovation is essential since the textile industry is an old industry whose processes cannot be changed, which can be done in the form of: elimination of disturbing substances and release of microfibers, increased use of clothing, better recycling and efficient use of resources and migration to renewable inputs as indicated reproduced with permission from Reference (Morlet et al. 2017). In different phases, the following actions can be performed: Materials: textile raw materials should be renewable or easily recyclable with little or no concern for the environment. The best approach may be to use big data material computing (Jose and Ramakrishna 2018; Tebyetekerwa et al. In addition, efforts and policies should be made to ensure that all basic fibers are made from biodegradable materials and that fibers that can be easily collected from the environment can be degradable or biodegradable. Energy-intensive processes that require large volumes of

water and high pollution, such as wet processing during dyeing, can be replaced by printing and the use of naturally derived dyes or low-temperature synthetic dyes in batch dyeing processes only. Use: The objective is to increase the use of clothes respecting the environment.

2.3

The brands share their stories about sustainable sourcing, ethical production processes and the positive impact they have on local communities and the environment. Providing information on certifications, such as organic or fair trade, reinforces a brand's commitment to sustainability and ethical practices. Collaborations with artisans and local communities will also strengthen the discourse on green fashion. By emphasizing traditional craftsmanship and supporting the local economy, the brands promote not only sustainability, but also a sense of cultural appreciation.

Social media platforms allow brands to reach a wider audience, demonstrating their sustainable practices through engaging visuals and content. Partnerships with influencers can also strengthen a brand's message, as environmentally conscious influencers advocate sustainable choices, thus influencing their followers.

Brands can create information campaigns that raise awareness of the environmental impact of fast fashion and the benefits of choosing sustainable alternatives. Workshops, webinars and social media content can guide consumers towards informed choices and adoption of sustainable lifestyles. Finally, the use of eco-friendly packaging and shipping practices further reinforces the brand's commitment to sustainability.

2.4

Sustainable fashion can be defined as fashion that includes the protection of one or more aspects of social and natural environmental sustainability, such as textile upcycling and fair trade production processes. The new textile production process is mainly associated with high energy consumption and the use of new materials. The main aim of this research is to identify the impact of textile upcycling on consumer perception in order to convey a consistent brand message in the UK fashion industry. Therefore, this study is mainly concerned with identifying the challenges and opportunities of textile recycling, the benefits for the environment through this process and the benefits for companies trying to convey this sustainable brand message through textile upcycling.

3. RESEARCH METHODOLOGY

The designers study sustainability options, technological innovations and quality to ensure that the materials match their vision. This may include studying art, architecture and traditional clothing to incorporate meaningful elements into their designs. Knowledge of industry standards and manufacturing processes ensures designs can be produced efficiently. Sustainability Research: With a growing awareness of environmental issues, designers are often looking for sustainable practices, including environmentally friendly materials, ethical production methods and transparency of the supply chain. It helps designers to plan collections that will be relevant for the coming seasons.

3.1 MATERIAL SOURCING

3.1.1.

Secondhand Jeans: Bhopal New Market is a vibrant place, especially with secondhand jeans, which are sold at incredibly affordable prices of Rs 100 a pair. The market is a treasure trove for thrift shop lovers, with a wide variety of styles and sizes from across the city center. Local retailers sell these jeans in a mix of popular brands and vintage pieces, attracting eco-conscious shoppers interested in sustainable fashion.

3.1.2.

Cotton Shirt Material: In Bhopal's bustling markets, I was on the hunt for secondhand white cotton shirts for less than Rs 50 a piece. The market was full of vibrant colors and chattering vendors, making the exploration both exciting and worthwhile. As I browsed the shelves and piles, I discovered a variety of white shirts, each with its own texture and story. Finally, I chose a few pieces that caught my eye and imagined how I could turn them into amazing designs for my future. The affordability and quality of these shirts not only inspire my creativity, but also highlight the beauty of sustainable fashion, allowing me to create something new from something I once loved.



(FIG 1: BALE OF SECOND HAND CLOTHS)

3.2 Design Process

3.2.1. Illustration and Printing: Developing a fashion collection with Adobe Illustrator is an exciting combination of creativity and technology. The software allows designers to create detailed sketches, models, and color palettes, making it an essential tool to visualize ideas. For this particular collection, we chose tie-dye printing, a technique that adds organic and vibrant patterns to clothing. Illustrator allows us to try different combinations of colors and shapes and simulate the fluidity of batik printing before moving on to the physical process. Once the design is complete, we can proceed to create real color pieces, combining digital design with practical color techniques. This blend of digital and traditional methods not only enhances the aesthetic appeal of the collection but also allows for endless possibilities in exploring patterns, ensuring that each piece is unique and full of personality.

3.2.2.

Fabric Preparation:

i. Dyeing Process (Non-Toxic Fabric Dyes) -

Kadam Pakka Rang is a non-toxic fabric dye that can be used to revive and rejuvenate old or faded garments in a safe and long-lasting way. In contrast to aggressive chemical colors, Kadam Pakka Rang is Azo-free and therefore gentle on the skin and the environment. This eco-friendly stain is designed to be used in hot water and is available in a range of vibrant shades, making it easy to achieve a professional-looking finish. With an easy-to-use formula and included DyFix colour fixative, Kadam Pakka Rang makes dyeing and staining fabrics easy and prevents colours from bleeding or fading. This commitment to sustainability is reflected in Kadam Colours' heritage, which dates back to 1962, and its ongoing efforts to produce environmentally friendly textile dyes. By choosing Kadam Pakka Rang, consumers are not only breathing new life into old clothes, but also contributing to a more responsible and environmentally friendly fashion industry.

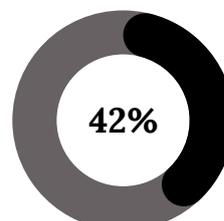
ii. Post-dyeing -

To prepare the fabric for dyeing with non-toxic dyes, first clean the blue jeans and white shirt to remove any dirt that may interfere with dye absorption. Pre-wash the blue jeans in warm water with a mild, environmentally friendly detergent to remove any discoloration or stains and prepare the fabric to absorb the black dye. After washing, allow the jeans to dry until slightly damp to allow the dye to penetrate evenly. Soak the white shirt you want to tie-dye in non-toxic salt water to set the stain. Once dry, squeeze out excess water and roll or fold the shirt to create the desired color pattern. Secure with rubber bands. This careful preparation ensures that both fabrics achieve a vibrant, long-lasting color finish while ensuring safety and environmental protection.

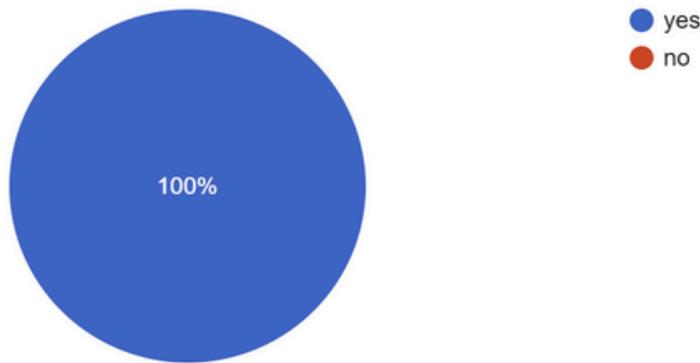
Final inspection is essential in the dyeing process as it ensures the quality of the finished fabric. Inspectors carefully inspect the dyed fabric for any stains, color distortions, or uneven dye application. They check for color uniformity throughout the fabric and conduct a warp test to ensure that color will not transfer during use. Additionally, we evaluate the precision of the desired shade and finish to ensure the final product meets quality standards and customer specifications. This attention to detail enhances the beauty and durability of the fabric.

4. DATA ANALYSIS (Quantitative Method)

The quantitative methodology used in this thesis involves the use of a Google survey form as the primary data collection tool. The research design involves a cross-sectional approach, in which data are collected at one point in time from a diverse sample of participants. It is recognized that the limitations of this method include potential response bias and the inability to establish causality due to the cross-sectional design.



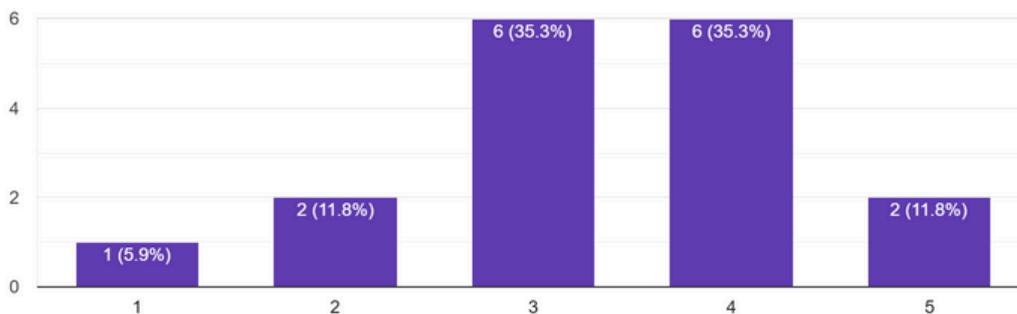
EMO FASHION ENTHUSIAST



(PIE-CHART 01)
Source:- Google forms.

4.1 Topic awareness

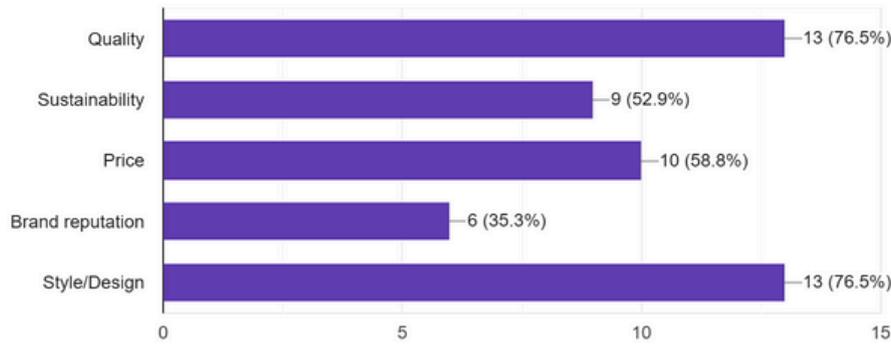
I totally concur with the thought that 100% of individuals know how to reuse dress. In later a long time, the talk about on maintainability within the design industry has heightens, to a great extent fueled by social media, influencers and a developing accentuation on natural duty. Clothing reusing, which includes the imaginative change of utilized or disposed of clothing into in vogue modern pieces, has gotten to be a noticeable subject in this exchange. The rise of stages like Instagram and TikTok has made it less demanding for people to share their reusing ventures, appearing inventive ways to provide unused life to ancient dress. This perceivability has started intrigued and interest, making the concept more available to a more extensive gathering of people. In expansion, numerous mold brands are presently consolidating reused materials into their collections, raising mindfulness of the benefits of this hone. In expansion, instructive activities and classes centered on economical design have expanded, empowering individuals to reexamine their utilization propensities. As mindfulness of the negative impacts of quick mold grows, more individuals are searching for options that advance maintainability and inventiveness .In rundown, the meeting of the impact of social media, brand activities and instructive endeavors is likely to present nearly everybody to the thought of fashion reusing, making it a prevalent and embraced concept in today's society .



(GRAPH 01)
Source:- Google forms.

4.2 Familiarity with upcycled fashion products

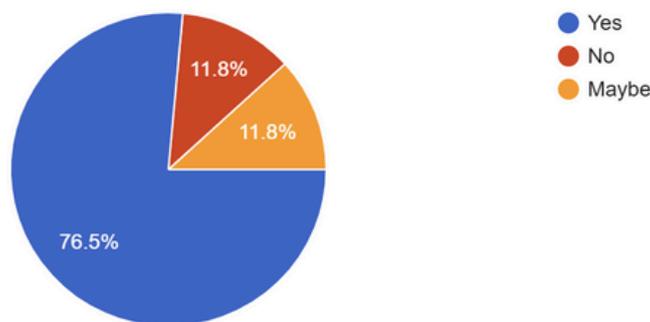
I would say that I am very learned almost recyclable design items, as I have made a cognizant exertion to memorize more and lock in in this imperative perspective of feasible mold. Upcycling, or turning utilized or disposed of clothing into smart unused things, has gotten impressive consideration in later a long time, and I've investigated a assortment of sources, counting social media, blogs and eco-focused design activities , to way better get it its impact. Although it is stressing that as it were 35% of individuals are mindful of reused items, I see this as an opportunity for development. Reusing not as it were addresses the pressing issue of material squander, but moreover energizes imagination and singularity in mold. The thought that clothes can be reimagined instead of thrown absent reverberates with numerous buyers trying to find economical choices. I think the more brands consolidate reused materials into their collections and advance these items, the more mindfulness will unavoidably develop. In expansion, workshops and instructive campaigns centered on the benefits of reusing can too fill the information crevice. The more individuals learn approximately the natural benefits and creative expression included in reusing, the more likely they will embrace these products. After all, in spite of the fact that I am commonplace with the concept of reused design.



(GRAPH 02)
Source:- Google forms.

4.3 Factors influence your purchasing decisions for clothing

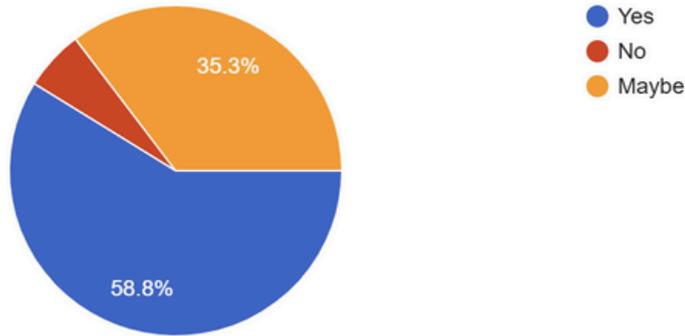
When it comes to my clothing purchasing decisions, I prioritize quality and style, which reflects 76.5%. Investing in high quality items often means they will last longer, reducing the need for frequent replacements and ultimately contributing to more sustainable spending habits. While I understand that other factors such as price, durability and brand reputation also play a role in purchasing decisions, they are often secondary to quality and style for me. Sustainability is increasingly becoming a priority in the fashion industry and I appreciate brands that prioritize environmentally friendly practices. However, she often finds that stylish, high-quality clothing naturally matches the more sustainable choices. Finally, the reputation of the brand may influence my decision, especially regarding ethical practices.



(PIE-CHART 02)
Source:- Google forms.

4.4 Sustainable fashion practices and regulations

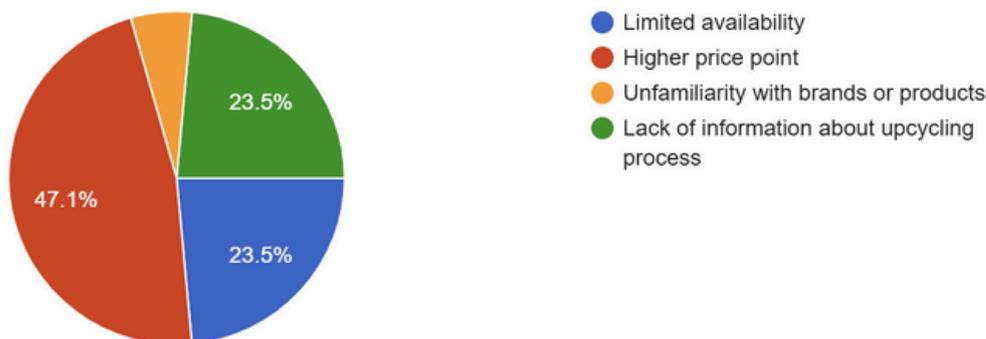
They accept that governments ought to play an critical part in advancing feasible mold hones and upholding the rules, which is the see of 76.5% of individuals who bolster this thought. The design industry incorporates a critical natural and social affect and government mediation can offer assistance drive noteworthy change. First, governments can set up directions that empower brands to receive feasible hones, for illustration by requiring straightforwardness in supply chains and implementing benchmarks of moral labor hones. By making companies responsible, directions can advance reasonable working conditions and decrease the exploitation of specialists, which is frequently ignored within the interest of low-cost generation. In expansion, governments can empower maintainable hones through awards, assess breaks or appropriations to companies that prioritize naturally inviting materials and generation strategies. This budgetary bolster can help little brands to enhance and compete with bigger companies that don't essentially prioritize maintainability. Open mindfulness campaigns supported by the government can too play a pivotal part in teaching buyers approximately the importance of feasible design. By highlighting the benefits of capable utilization, governments can empower people to create educated obtaining choices that adjust with their values. In expansion, governments can collaborate with mold educate and organizations to advance inquire about and advancement of maintainable materials and advances. This could lead to advancements that make maintainable design more available and appealing to shoppers.



(PIE-CHART 03)
Source:- Google forms.

4.5 Purchasing upcycled fashion products in the future

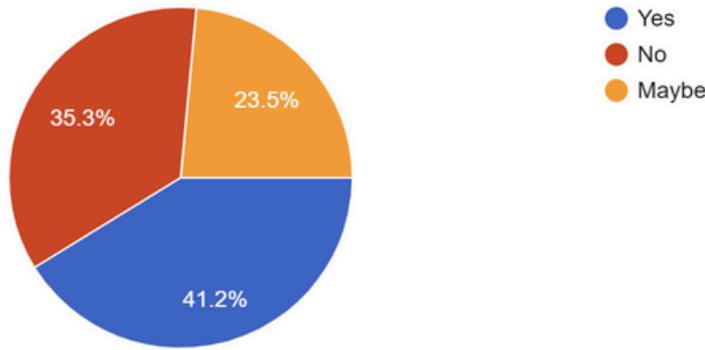
They will unquestionably consider buying reused design items within the future, which is the conclusion of 58.8% of individuals who share this intrigued. Reusing not as it were gives a interesting and imaginative way to revive my closet, but moreover underpins economical hones by lessening material squander and advancing the reuse of materials. I adore the singularity of repaired things, as they frequently include interesting plans that reflect a more considered approach to fashion. Even in spite of the fact that I'm 35 a long time ancient, 3% of individuals may be hesitant to purchase reused items for a assortment of reasons, such as concerns almost quality, accessibility or fashion. I accept that as mindfulness of feasible fashion continues to develop, increasingly individuals will recognize the esteem and offer of restored things. With the expanded accessibility and progressed information in reused design, I see this as a practical alternative that adjusts with my values of supportability and creativity. In conclusion, my openness to obtaining reused mold items stems from the want to back naturally neighborly hones and grasp interesting and exquisite pieces that tell a story. I accept that as the recycled fashion showcase develops, it'll ended up an even more alluring choice for customers attempting to make mindful obtaining choices.



(PIE-CHART 04)
Source:- Google forms.

4.6 Barriers might prevent you from purchasing upcycled fashion products

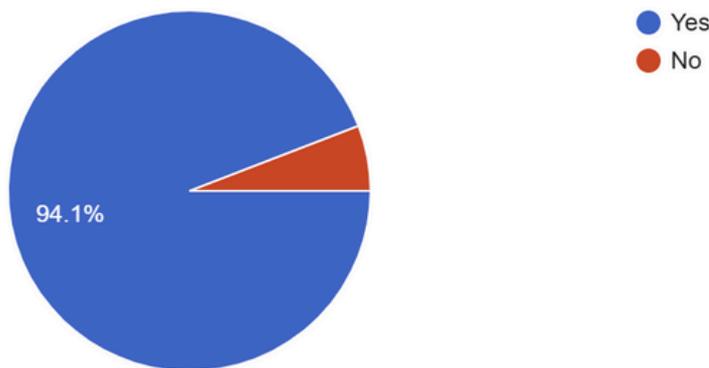
There are numerous impediments that can avoid you from buying reused mold items, which moreover reflects the concerns of others. For 47.1% of individuals, the tall cost could be a critical impediment. Reused things can frequently be more costly due to the labor and inventiveness required to convert ancient dress into modern plans. Whereas I get it that this cost reflects the esteem of economical hones, it can moreover be a deterrent for those of us on a budget or seeking out for cheaper design choices. In expansion, 23.5% of respondents specify the constrained accessibility and need of data as an deterrent. Reused design items are not continuously accessible in conventional retail stores, making it more troublesome to discover pieces that coordinate a individual fashion or fit. In expansion, the need of information of where to discover reused items can restrain customer get to. Numerous individuals do not know which brands or retailers specialize in reused design, which makes them miss openings to investigate and purchase. Too, there can be a few instability approximately the quality and strength of reused things compared to unused dress, which can encourage dishearten potential buyers. Without sufficient data approximately the root and information of these items, a few buyers may be hesitant to contribute in these items.



(PIE-CHART 05)
Source:- Google forms.

4.7 Shopping thrift clothes for sustainable clothing options

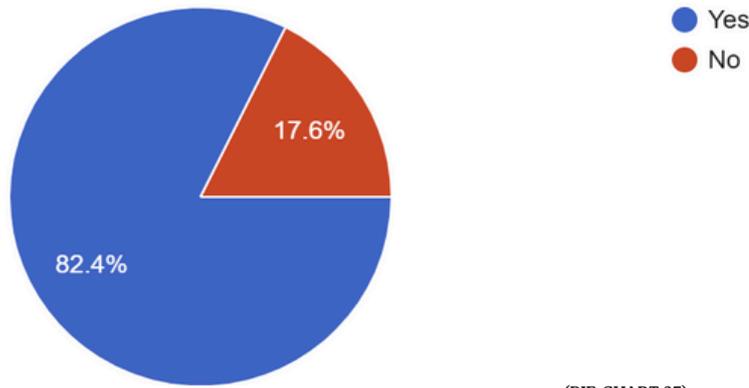
The supposition of 41.2% of individuals who share this intrigued. Buying second-hand speaks to a commonsense and successful way to receive feasible mold, because it advances the reuse of dress and significantly diminishes squander within the mold industry. Each time a individual chooses to purchase utilized dress, they offer assistance keep dress out of landfills, which is progressively imperative given the natural affect of quick fashion. One of the foremost appealing angles of buying moment hand is the opportunity to find interesting and matchless pieces. Thrift stores regularly carry a diverse range of styles, from vintage finds to modern brands, permitting customers to specific their singularity in a way that mass-produced clothing frequently can't. This component of shock and imagination includes a delightful measurement to the shopping encounter, turning it into a treasure chase where you never know what you might find. Although a few individuals may delay to purchase used, citing concerns approximately quality, fit or cleanliness, I think that these concerns can regularly be reduced with a small care and thought. Numerous thrift stores clean and review their things, and with a cautious eye, it is conceivable to discover high-quality clothing that's still in amazing condition. In expansion, the reasonable cost of utilized dress permits you to try.



(PIE-CHART 06)
Source:- Google forms.

4.8 Black clothing

A estimation shared by 94.1% of individuals who feel the same way. There are numerous reasons why dark clothing is such an vital portion of numerous people's wardrobes. First of all, dark is inconceivably flexible. It sets well with nearly any color, making it simple to blend and coordinate with other pieces. This flexibility permits perpetual combinations of dress, whether for casual trips, commerce circumstances or formal events. A straightforward dark dress or dark pants can be accessorized for a night out or worn for a casual day. In expansion, dark clothing frequently passes on a sense of modernity and tastefulness. Numerous individuals discover that wearing dark can upgrade their in general appearance, giving off an discuss of certainty and fashion. It's moreover a ageless color that never goes out of fashion, making it a shrewd speculation for a long-lasting closet. In expansion, dark is viable in terms of support. It tends to have less spots and stains than lighter colors, which can be especially useful for ordinary wear. This common sense implies that dark dress can be new and clean indeed after numerous employments. At last, for numerous, dark could be a shape of expression. It can inspire sentiments of strengthening and is regularly related with quality and strength. For those who incline toward a more moderate tasteful.



(PIE-CHART 07)
Source:- Google forms.

4.9 Fusion of different cultures and styles, such as punk, post-punk and medieval influences, in Emo fashion

This varied blend reverberates with 82.4% of individuals feeling the same way. Emo design may be an interesting expression of independence that draws motivation from a wealthy history of diverse subcultures, each bringing its claim unmistakable components. Punk and post-punk influences bring a defiant and brave soul that's at the heart of emo mold. Components such as distressed clothing, strong adornments and expressive illustrations permit wearers to communicate their feelings and personality through their fashion. At the same time, the joining of medieval impacts includes an interesting touch, frequently reflected in darker color palettes, layered surfaces and indeed vintage-inspired adornments. This combination makes a sensational and profoundly individual see. In expansion, this combination of styles permits for endless inventiveness and self-expression. People can blend and coordinate components from diverse impacts to form a see that feels true to them. This flexibility is portion of what makes Emo mold so appealing:

it energizes individuals to investigate their personality and tell their story through their dress. In conclusion, the blend of distinctive social and elaborate impacts in Emo design not as it were improves the tasteful, but moreover advances a sense of community among those who grasp it. It's a celebration of inventiveness and singularity that resounds profoundly with numerous individuals, making it a effective shape of self-expression.

5.CONCLUSION

The study reactions give knowledge into current states of mind towards feasible design, with a specific center on concepts such as reusing and second-hand shopping. Whereas all members recognized the thought of fashion reusing, as it were 35% said they felt commonplace with reused items. This crevice proposes an critical opportunity to make strides instruction and mindfulness with respect to the benefits and accessibility of these special things made from reused materials. In terms of obtaining behavior, 76.5% of respondents prioritize quality and fashion over other variables such as cost, strength and brand notoriety. This inclination highlights the want for clothing that not as it were keeps going longer, but too reflects individual aesthetics. Numerous individuals get it that high-quality clothing frequently adjusts with maintainable hones, decreasing the recurrence of substitutions and eventually contributing to a more dependable utilization demonstrate. In expansion, a solid larger part (76.5%) accept that governments ought to effectively advance maintainable mold hones through controls and motivating forces. This collective opinion appears a acknowledgment of the part that legislative issues can play in advancing moral hones within the mold industry, for case, to move forward the straightforwardness of supply chains and back economical generation strategies. With respect to their future buys, 58.8% of respondents say they are willing to purchase reused clothing, in spite of the fact that 35.3% stay reluctant, likely due to concerns almost tall costs and restricted accessibility of these articles.

These boundaries are reflected within the information, with 47.1% citing fetched as an critical boundary and 23.1% citing taken a toll as an imperative deterrent. 5% of respondents highlighted the need of data on where to discover reused items. On the opposite, the intrigued in buying moment hand as a viable option is reflected within the truth that 41.2% of the members consider it a practical choice. Buying second-hand not as it were offers natural benefits by lessening squander, but too gives the opportunity to find special pieces that stand out in a ocean of mass-produced clothing.



(FIG 3 : COLLECTION)

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