

To Design A Capsule Wardrobe With Size Adjustable Clothing For Toddlers Using Dead Stock And Eco-Friendly Fabrics

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Abstract: The Purpose Of This Study Was To Explore Sustainable Methods To Design Garments For Toddlers. While The Minimalist Lifestyle Has Been Gaining Traction For A While Now, Lately It Seems The Trend Has Narrowed In On An Area Dear To Our Hearts: The Closet. The Main Concept Used In This Paper Is To Develop Designs As A Capsule Friendly Wardrobe With Size Adjustable Clothing For Toddlers Using Deadstock And Eco-Friendly Fabrics. The Aim Is To Create A New Clothing Line For Toddlers, Girls Aged Between 1 To 3 Years By Experimenting With The Existing Resources And Sustainable Fabrics. Using A Case Study Approach, The Data Was Collected Through Semi-Structured Interviews And Online Questionnaires From Customers Who Visited Kids Stores In Coimbatore. Here The Paper Explores A Methodology That Is Committed To Fair-Trade Principle And Good Ethical Conditions Of The Weavers Who Belong To The Chennimalai Village, Near Erode Where Handloom Industry Is Showing A Decline. Deadstock Fabrics From Export House In Tirupur Have Also Been Sourced For This Toddler Collection. About Eight Different Styles Of Garments Was Developed For Girls Toddlers. Capsule Wardrobes Push Us To Think More About What Clothing We Actually Wear, And Whether We Truly Need Each Piece In Our Closet.

Keywords: Sustainable; Capsule Wardrobe; Toddler; Adjustable Clothing

1. INTRODUCTION

The Children's Apparel Is A Market That Is Growing Rapidly Today. Trends In The Market Are Fast Changing. Children's Apparel Includes Clothing For Kids Between 1 And 14 Years Of Age. The Market For Kids' Apparel In India Exceeds Rs. 13000 Crore, Of Which Around Rs. 3000 Crore Is Constituted By Branded Kids' Wear [1]. The Kids' Wear Market Is Growing At The Rate Of 10% Per Annum, Which Makes It One Of The Fastest Growing Markets.

Some Major Changes In Trends Are Taking Place In The Market For Kids' Apparel. One Of The Important Changes Is The Increasing Preference For Branded Apparel. This Shift Is Taking Place On Account Of Changes Such As A Rise In The Disposable Income Of The People And The Increasing Influence Of Foreign Culture [2].

Global Fashion Industry Has Bitterly Evidenced The Social And Environmental Implications Associated With Fast Production Cycles, Overuse Of Resources, Waste

Generation, Environmental Pollution And Unethical Labour Conditions. Growing Consumer Awareness Regarding Social And Environmental Impacts Of Fashion Products Has Led To Create A New Marketplace For Sustainable And Ethical Products [3].

Capsule Wardrobe Is A Term Coined By Susie Faux, The Owner Of A Boutique In London Called "Wardrobe" In The 1970s. According To Faux, A Capsule Wardrobe Is A Collection Of A Few Essential Items Of Clothing That Do Not Go Out Of Fashion Such As Trousers, Skirts And Coats, Which Can Then Be Augmented With Seasonal Pieces. This Idea Was Popularized By Donna Karen An American Designer In 1985, Who Released An Influential Capsule Collection Of Seven Interchangeable Work-Wear Pieces. While The Fashion Industry Utilizes Capsule Collections In Order To Produce An Air Of Exclusivity And A Designer's Artistic Expression, Capsule Wardrobes Are More About Style In A Personal Way. Most Of The Individuals Who Have Become Capsule Wardrobe Experts Got Into The Game Because They Were Tired Of "Decision Fatigue." Our Consumerist Culture And Fast Fashion Have Tricked Us Into Believing That We Must Own Everything. The Result Is A Stuffed Closet Full Of Clothes That We Very Well May Never Wear [4].




Capsule Wardrobes Push Us To Think More About What Clothing We Actually Wear, And Whether We Truly Need Each Piece In Our Closet. Buy Less, Wear More, And Find High-Quality. The Objectives Of This Study Were To Analyse The Current Scenario Of Kids Market And Explore Brands Using Sustainable Fabrics, To Study The Preference And Requirements Of Consumers While Buying Kids Clothing And Designing Kids Clothing Collection Using Eco-Friendly Fabric And Developing A Capsule Friendly Wardrobe With Size Adjustable Clothing.



2. MATERIALS AND METHODS

2.1. Materials

The Fabrics Used In The Collection As Mentioned In Table 1 Are Eco-Friendly Fabrics Produced On Handloom. They Are Of Different Composition And Blends. These Fabrics Are Woven While The Dead Stock Fabric Sourced From Export Houses In Tirupur Are Knits.

Table 1. Eco-Friendly Fabrics Used In The Collection

Fabric	Description	Warp	Weft	Width	GSM	Color
	Modal And Cotton	2/40s Cotton	2/40s Cotton	150 Cm	140	Burnt Orange
	100 % Cotton	2/20s Cotton	2/20s Cotton	150 Cm	285	Black & White
	Cotton And Tencel	60s Cotton	60s Tencel	120 Cm	85	Light Blue

	Organic Cotton	2/20s Organic Cotton	2/20s Organic Cotton	135 Cm	180	Light Pink
	Cotton And Recycled Fabric	2/60s Cotton	2/40s Recycled Cotton	121 Cm	113	Violet Extra Warp

2.2. Forecast And Trend Analysis

There Are Various Websites That Provide Secondary Data On Trends. Fashion Magazines Has Insights And Key Descriptions On Kids Clothing That Are In Trend And Forecasts The Future Trends. But Following A Trend System For Kids Would Cause A Lot Of Textile Waste Since They Tend To Outgrow The Garment Soon. Classic Styles That Have Been Always In Style And Are A Staple Must Be Used To Design Garments For Kids. The Different Forecasting Tools And Trend Books Can Be Referred To While Designing Garments For Kids Just Like Its Done For Womenswear Or Menswear .Elements That Can Be Used Longer Which Would Never Go Out Of Style.

Deadstock Fabrics Have Always Been A Concern. Deadstock Refers To Old Fabric That Hasn't Been Able To Sell. Maybe There Are Small Damages, Maybe The Company Who Purchased It Ordered Too Much. Maybe They Are Scraps From Factories Cutting Room Floor That Are Being Sewn Together And Made Into Something New. Tirupur, A District Near Coimbatore Is Well Known For Exporting Garments To Different Countries. It Is The Garment Hub That Makes Exports Worth Rs 26,000 Crore Annually. Piles Of Fabrics That Have A Small Defect In It, Or Colour Variation Or Imperfect Print Placement Have Been Left Unused In The Racks. These Fabrics Are In Good Condition But Of No Use (Except For A Few Fabrics) To The Company Since The Buyers Places Different Order Every Time.

Hand Weaving Is Done On Pit Looms Or Frame Looms Generally Located In Weavers' Homes Or In A Studio. The Handloom Fabric Experiences Properties Like Soft, Comfortable And Durability. This Is Due To The Human Handling Of The Yarn In The Weaving Process. As A Result, Yarn And The Fabric Are Much Less Stressed And Damaged But They Are Not Uniform.

A Capsule Wardrobe Is A Collection Of Only The Essential Items Of Can Then Be Augmented With Seasonal Pieces. But In Today's World Of Fast Fashion With 52 Micro-Seasons, It's Easy To Feel Like This Is An Extreme Idea. The Key Is To Have The Ability To Make Outfits That Work For Any Occasion Without Owning Excessive Pieces Of Clothing. The Way This Works Is By Finding Quality Pieces That Wear Well In Coordinating Colors.

The Fabrics Used In Designing Are Woven In Handloom And Knits Are Taken From The Deadstock Of A Company's Warehouse In Tirupur. Concept Used In Developing The Designs Is Capsule Friendly Wardrobe For Toddlers And Some Of The Garments Are Adjustable In Size. So That The Kids Can Still Use The Dress And Not Outgrown Them.

2.3. Market And Client Research

To Understand The Requirements Of The Client, A Set Of Structured Questionnaire Was Prepared After Doing A Pilot Study. Garments Are Designed For Kids, Girls Aged Between 1

To 3 Years. A Survey Was Conducted In Different Kids Store In Coimbatore. This Was Done To Understand The Consumer Preference And Their Knowledge Of Sustainability. Since The Collection Is Kidswear, The Survey Was Answered By Parents/ Adults.

- Q1. Would You Like To Buy Sustainable Garments For Your Kids?
- Yes
 - No
 - Maybe
- Q2. Are You Aware Of Any Sustainable Clothing Brands?
- No, I'm Not Aware Of Such Brands
 - Yes
- Q3. Choose All The Eco-Friendly Fabrics That You Know
- Organic Cotton
 - Eri Silk
 - Modal
 - Hemp
 - Banana
 - Bamboo
 - Tencel
 - Recycled Fabric
- Q4. Are You Willing To Spend A Little More Than Usual On Kids Clothing To Buy Sustainable Apparel?
- Yes
 - No
 - Maybe
- Q5. Rank The Problems That You Face With Existing Apparel For Kids (1 – Least, 5 – Most)
- | | | | | | |
|-----------------------|---|---|---|---|-------------------|
| | 1 | 2 | 3 | 4 | 5 |
| <input type="radio"/> | | | | | Fit |
| <input type="radio"/> | | | | | Comfort |
| <input type="radio"/> | | | | | Wash Care |
| <input type="radio"/> | | | | | Quality |
| <input type="radio"/> | | | | | Donning & Doffing |
| <input type="radio"/> | | | | | Design Varieties |
- Q6. How Much Amount Do You Spend On Kids' Clothes In 6 Months?
- < Rs.2500
 - >Rs.2500 To <Rs.5000
 - >Rs.5000 To <Rs.10000
 - >Rs.10000
- Q7. Most Preferred Mode Of Purchase
- Retail Outlet
 - Online Shopping
 - Both
- Q8. What Are The 3 Factors That Influence You The Most While Purchasing Kidswear?
- Softness
 - Comfort
 - Anti-Bacterial Finish
 - Withstand Number Of Washes
 - M/C Wash
 - Brand Name

- Good Fit
 - Quality
 - Distinctive Designs
 - Convenience
- Q9. How Would You Describe Your Style Of Dressing Your Kids?
- Traditional
 - Contemporary
 - Transitional (Mix Of Traditional And Contemporary)
 - Rustic / Vintage
 - Eclectic (Mix Of Many Styles)
- Q10. Do You Prefer Patterns , Solids Or A Combination Of Both In Your Kids Dress?
- Patterns
 - Solids
 - Both
- Q11. What Kind Of Prints Do You Like?
- Floral
 - Geometric
 - Contemporary
 - Traditional
 - Cartoonistic
 - Abstract
- Q12. What Are The Criteria You Might Look For While Purchasing Kids Clothing?
- | | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
- Price
 - Quality
 - Brand
 - Comfort
 - Patterns
 - Colour

2.4 Design Process And Development In CAD

There Are Different Designing Software Available. Adobe Photoshop Is Arguably One Of The Most Popular Software For Graphic Design And Is Used By Millions Of Artists Around The World. Along With Image Editing, One Can Create Naturalistic Artwork And Composition In This Software. The Size Of The Canvas Can Be Defined, Isolate Elements From Backgrounds, Create Custom Brushes, Work In 3D, And Much More. Adobe Illustrator Is Design Software That Is Centered On Vector Design. This Software Can Be Used To Draw, Mix, And Refine Designs To Create Something Spectacular.

2.5 Working On Design Collection

For Creating A Collection Of Garments For Toddlers Aged Between 1 To 3 Years, It Is Necessary To Develop Different Boards. Client Board Consists Of Details About The Consumer, Their Personality, Age Group, Season, Style Of Garment, Income Pattern (To Understand The Purchase Behavior) And So On. An Inspiration Has To Be Drawn Beforehand, Since A Collection Must Consists Of Elements In Similarity. Mood Must Be Set For Development Of New Styles. Since I'm Working On Sustainable Fashion, The Concept That Was Chosen Was Capsule Friendly Wardrobe. Kids Grow Fast And There Is A Need To Replace Clothes Quickly, So From A Financial And Sustainability Perspective, It's

Important To Buy Less To Waste Less. Some Of The Garments Are Adjustable In Size Which Means, The Kid Can Still Use The Clothes For Another Year Or So Without Outgrowing Them.

Each Garment Was Designed Using Different Combination Of Fabrics. To Understand The Feasibility Of Each Combination, Sample Swatches Were Created And Put Together. Here Woven Fabrics Were Sourced From A Sustainable Brand Based Out Of Erode That Works With Handloom Fabrics. Knit Fabrics Are Taken From The Warehouse Of A Tirupur Manufacturing Unit. These Deadstock Fabrics Are Used In This Collection To Create A Capsule Friendly Wardrobe For Toddlers Which Must Consist Of Minimum Clothing That Can Be Mix And Matched And Worn. Designing Is Done On Adobe Illustrator. A Tech Pack Is Created For Each Garment Individually Which Has Specification About The Fabric, Style, Costing, Pattern Details And Measurement. A Range Plan Is Also Designed Where All The Designs Are Sketched As 2D Flats. Some Garments Are Adjustable; These Styles Are Explained With Change In Size (I.E) How The Garment Changes From A Smaller Size To Larger Size.

3. RESULTS

3.1 Forecasting And Trend Analysis

From The Information Collected Through Forecasting Sites And Secondary Data, A Few Of The Global Trends That Can Be Implemented In The Collection Is Studied. Styles That Would Remain A Classic And Not Go Out Of Fashion And That Can Be Repeatedly Work Till The Kid Outgrows The Garment. WGSN Serves As An Excellent Tool For Forecasting And To Explore Future Trends. My Brief Was To Develop A Collection Of Kidswear (Toddlers) – Casual Wear, Without Following The Trend. Few Design Elements From Secondary Sites Were Used As Inspiration.

These Elements Are Classic Motifs Or Patterns That Can Be Adopted And Used For Any Season. I Observed The Upcoming Trends For Autumn Winter Fashion And Spring Summer For 20/21 By Various International Brands And Indian Brands Working With Hand Crafted Textiles To Get A Basic Idea Of What Would Work In Upcoming Fashion Trends. Some Of The Key Features For Baby And Toddlers Are Seamless Armholes, Harem Style Seats For Comfort, Tie Front Closure, Rustic Buttons, Folkloric Details, Spring Garden Prints, Comfort At Leisure Patterns, Doodles, Embossed Dots On Vintage Linen, Chevron And Checks, Light Undertones With Bold City Bright, Metallic Hues, Contrast Binding, Timeless Style And Graphic Patterns For The Year 2020 – 2021.

3.2 Market And Client Research

3.2.1. Buying Sustainable Garments For Kids

From Figure 1, Customers Have Shown A Great Interest In Purchasing Sustainable Garments For Their Kids. Only 2 Responses Answered As No. Almost Of The Customers Were Willing To Buy Sustainable Clothing Or At Least Had An Interest Towards It. The Data Shows That 74.8% Wanted To Buy And 23.5% Were Interested To Make Purchases.

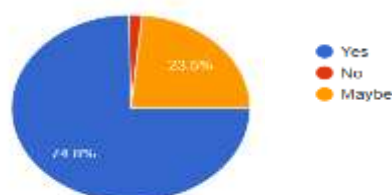


Fig. 1. Buying Sustainable Garments For Kids First Picture

3.2.2 Awareness Of Sustainable Clothing Brands

Though Many Customers Have Shown Interest To Purchase Sustainable Clothing, Majority Of Them Were Not Aware Of Any Such Brands. Sustainability Is A Concept That Has Been Spoken Of In Fashion Over The Years. Not Many Brands For Kids Have Emerged In India, Especially In The Southern Regions. Only 34.8% Of The Customers Know A Few Such Brands As Seen In Figure 2.

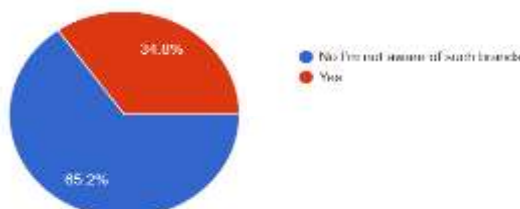


Fig. 2. Awareness Of Sustainable Clothing Brands

3.2.3 Choosing Eco-Friendly Fabrics

This Question Was Asked In Order To Know The Customers Knowledge On Eco Friendly Fabrics And Also To Educate Them. Most Of These Fabrics Have Been Explored And Used In Home Furnishing To Upholstery Too. Perishable Or Eco Produced Fabrics Are In Need. About 102 Respondents Were Aware Of Organic Cotton. Modal, Hemp And Tencel Are Some Of The Few Fabrics That Are Not Well Known Amongst The Customers As Shown In Figure 3.



Fig. 3. Choosing Eco-Friendly Fabrics

3.2.4. Willingness To Spend A Little More Than Usual On Kids Clothing To Buy Sustainable Apparel

To Work On The Cost Factors, It Was Important To Understand The Price A Customer Was Willing To Pay To Buy Kids Clothing. Since Sustainable Fashion Comes With A Higher Price Tag, It Was Important To Check With The Customers Their Willingness To Buy The Product With A Little Extra Cost. Almost 60.9 % Answered As Yes While 36.5% Were Interested Too. Figure 4 Showed That Customers Would Buy The Garments If It Meant It Was Manufactured In A Green Way For Their Kids.



Fig. 4. Willingness To Spend A Little More Than Usual On Kids Clothing To Buy Sustainable Apparel

3.2.5 Problems Faced With Existing Apparel For Kids

From Figure 5, The Majority Of Problem Faced In The Existing Apparel Was Comfort And Fit. Designing Garments Keeping These Factors Is The Utmost Concern.

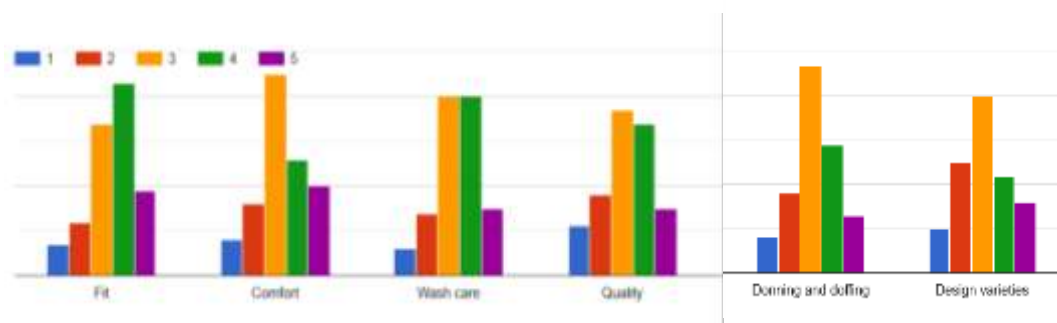


Fig. 5. Problems Faced With Existing Apparel For Kids

3.2.6 Amount Spent On Kids Clothes In 6 Months

About 48.7% Spend Around Rs.5000 To Rs.10000 In 6 Months. Spending Above Rs.10000 And Below Rs.2500 Was The Least Numbered (I.E) 11.5% As Seen In Figure 6

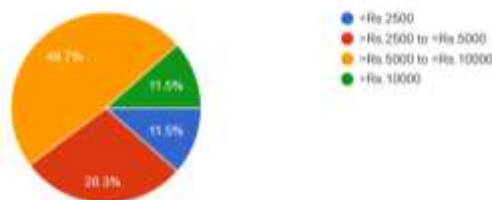


Fig. 6. Amount Spent On Kids Clothes In 6 Months

3.2.7 Most Preferred Mode Of Purchase

Though Online Shopping Is At Its Peak In Almost All The Field, Parents Prefer To Buy Clothes From The Retail Stores Rather Than Doing Online As Seen In Figure 7.



Fig. 7. Most Preferred Mode Of Purchase

3.2.8 Three Factors That Influence The Most While Purchasing Kids Wear

Figure 8 Explains The Three Important Factors Considered While Making A Toddler Clothing Shopping As Comfort Which Is 75.7%, Quality Which Is 61.7% And Softness Which Is 60%. It Is A Need Of The Customer And What They Look For In Their Kids Clothing. It Is Necessary To Incorporate These Aspects While Designing And Choosing The Fabrics.

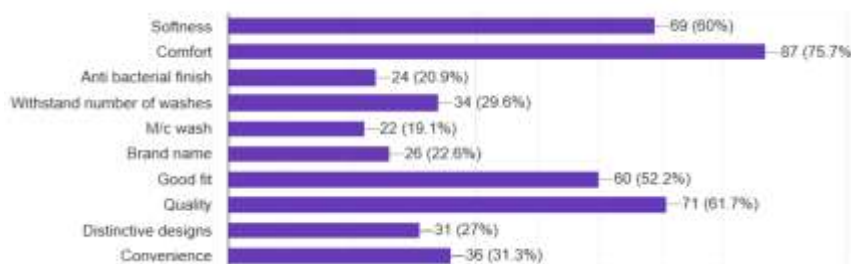


Fig. 8. Three Factors That Influence The Most While Purchasing Kids Wear
 3.2.9 Style Of Dressing Kids

The Intention Of Asking This Question Was Just To Understand The Dressing Preferences Of The Customer, Parents The Person Who Is Going To Make A Purchase For His/Her Kid. Contemporary Style, Eclectic And Transitional Was The Major Choices Made. The Figure 9 Showed That The Parents Wanted A Unique Yet Mixture Of Elements In The Clothing.



Fig. 9. Style Of Dressing Kids

3.2.10 Preference Of Patterns, Solids Or A Combination Of Both In Your Kids Dress

As Seen In Figure 10 About 71.6% Opted For A Combination Of Patterns And Solids, 14.7% Only For Patterns And 13.8% Only For Solids.

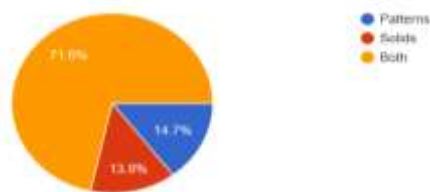


Fig. 10. Preference Of Patterns, Solids Or A Combination Of Both In Your Kids Dress

3.2.11 Choosing Eco-Friendly Prints

Figure 11 Showed That Prints Choice Was Cartoonist – 33% And Floral – 32.2%. Respondents Liked Geometric And Contemporary As Well. Since They Preferred A Mix Of Elements, It Was Required To Create Classy Yet A Minimalistic Design Pattern For Their Clothing.



Fig. 11. Choosing Eco-Friendly Prints

3.2.12 Criteria For Purchasing Kids Clothing

While Making A Purchase For Kids Clothing, Comfort And Quality Are The Highest Priority That Is Expected. These Are The Two Factors As Seen In Figure 12 Which Was A Concern In The Existing Clothing Of Kids. It Is Very Important To Work On These Two Criteria's To Satisfy The Needs Of The Customer.

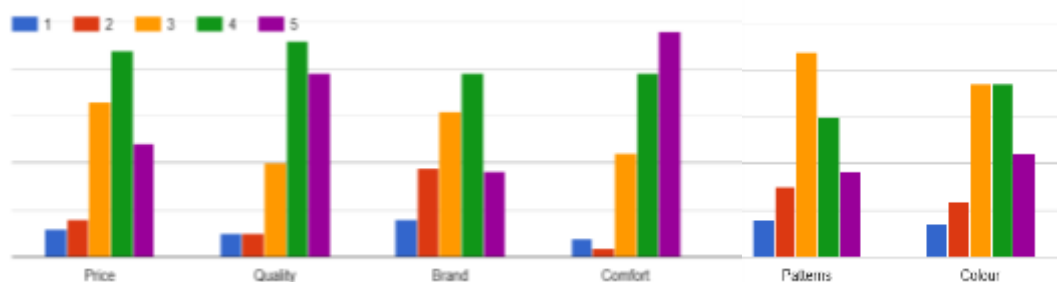


Fig. 12. Criteria For Purchasing Kids Clothing

3.3 Design Process And Development In CAD

For Creating A Collection Of Garments For Toddlers Aged Between 1 To 3 Years, It Is Necessary To Develop Different Boards .An Inspiration Has To Be Drawn Beforehand, Since A Collection Must Consist Of Elements In Similarity. Mood Must Be Set For Development Of New Styles. Since, Working On Sustainable Fashion, The Concept Chosen Was Capsule Wardrobe.

3.3.1 Moodboard

The Moodboard As Seen In Figure 13 Chosen For Toddlers' Collection Is Whimsical Wonderland. Toddlers Are Kids Who Are In A Stage Where They Grow And Learn New Things In Life. They Are Playful And Cheerful. These Age Groups Of Children Are Eager To Learn. Kids Fantasize Things. They Tend To Connect Everyday Aspects With New And Creative Thoughts. Hence The Mood That I Wanted To Create For My Design Collection Is Whimsical And Fun.



Fig. 13. Mood Board – Whimsical Wonderland

3.3.2 Client Board

During This Stage, Toddlers Will Show Greater Independence; Begin To Show Defiant Behavior; Recognize Themselves In Pictures Or A Mirror; And Imitate The Behavior Of Others, Especially Adults And Older Children. Toddlers Also Should Be Able To Recognize The Names Of Familiar People And Objects, Form Simple Phrases And Sentences, And Follow Simple Instructions And Directions. The Client Board Is Shown N Figure 14.

Target Audience – Toddlers (Girls)

Age Group - 1 To 3 Years

Occasion - Casual Wear

Location - Coimbatore

Season – No Particular Season Is Followed. But Trend
A Year, S/S 21 And A/W 20-21

Forecasting Is Done For



Fig. 14. Client Board

3.3.3 Fabrics Used

The Eco-Friendly Fabrics Are Sourced From Handloom-Based Sector. They Are Tencel, Organic Cotton, Recycled Cotton, Modal Fabric In Different Compositions As Seen In Materials. All Of Them Have Been Ethically Produced With Minimum Carbon Footprint From Weaving To Dyeing And Printing. Everything Is Locally Sourced And Provides Employment To The Handloom Skilled Artisans Which Has Shown A Decline Over The Past Few Years. The Knit Fabrics Used In This Collection Are Deadstock Fabrics. Designing Garments For Kids Using Knits Would Fulfil The Criteria's Set By The Consumers As It Provides Comfort. The Fabrics Are In Good Condition But Of No Use To The Export Houses Since The Order Is Completed. Mostly When An Order Is Undertaken, More Than

The Required Quantity Fabric Is Produced. Some Fabrics Land Up In The Stock Room Because Of Mismatch Pantone Shade Or Small Print Defect. These Fabrics Lie In The Warehouse For Almost A Year Or Two And Then It Is Sold In The Market As Second-Hand Fabrics. These Perfectly Good Condition Fabric Is Sourced For The Design Collection For Toddlers – Girls.

3.4 Working On Design Collection

3.4.1 Petals Dress

As Shown In Figure 15 This Style Is A-Line Silhouette. Peter Pan Collar With Contrast Binding. This Garment Uses Knit Fabrics – Solid Colour And Graphic Animal Print. The Size Of The Garment Can Be Adjusted And Worn Because Of The Elastic Sash That Runs In The Waist At The Front And Back. It Can Be Tied At The Sides. The Fabrics Used To Make This Style Is Dead Stock Fabric Of An Export House

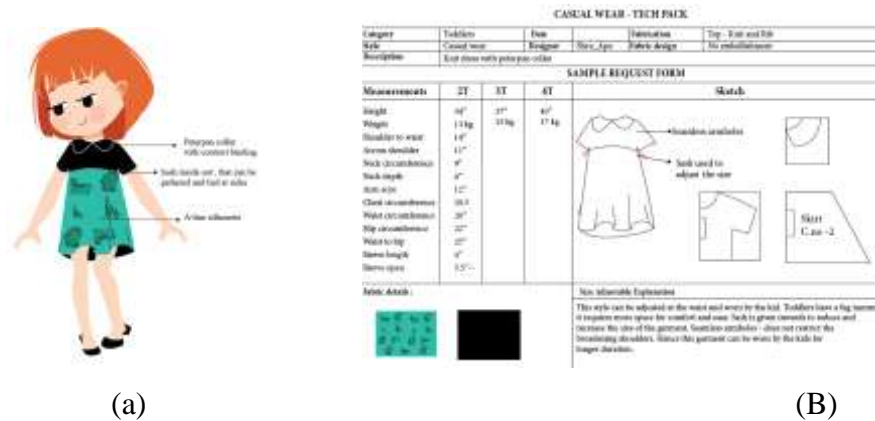


Fig. 15. (A) Petals Dress Design; (B) Petals Dress Tech Pack

3.4.2 Merry-O-Skirt

As Shown In Figure 16 This Garment Comes With A Suspender And Made Of Dead Stock Knit Fabrics. The Buttons Can Be Used To Adjust The Size. Once The Kid Grows, The Suspender Can Be Removed And The Skirt Can Be Paired With Any Top And Worn.



Fig. 16. (A) Merry-O-Skirt Design; (B) Merry-O-Skirt Tech Pack

3.4.3 Pleats And Paw

As Shown In Figure 17 This Is A Classic Denim Knife Pleated Skirt Paired With Sleeveless Retro Tank Top. The Shoulder Strap Is Knotted. The Side Panel Of The Top Is In Bias.



(A)

CASUAL WEAR - TECH PACK					
Category	Toddlers	Date		Fabrication	Top - Knit and Denim skirt - Organic cotton
Style	Casual wear	Designer	Shera_Apa	Fabric design	No embellishment
Description	Knot top with string knots paired with denim skirt made of organic cotton				
SAMPLE REQUEST FORM					
Measurements	2T	3T	4T	Sketch	
Height	34"	37"	40"		
Weight	13 kg	15 kg	17 kg		
Shoulder to waist	14"				
Across shoulder	11"				
Neck circumference	8"				
Neck depth	4"				
skirt length	12"				
Chest circumference	20.5"				
Waist circumference	20"				
Hip circumference	22"				
Waist to hip	25"				
Sleeve length	4"				
Sleeve open	5.5"				
Fabric details				Size adjustable Explanation: The style is with string knots which is tied at the shoulder. Side panel is knit fabric with bias. Denim skirt is constructed with knit pleats. It has elastic adjustments on both the corners of the skirt that is used to increase and decrease the size.	

(B)

Fig. 17. (A) Pleats And Paw Design; (B) Pleats And Paw Tech Pack

3.4.4 The V Dungaree

As Shown In Figure 18 This Is A Dungaree Which Is Made Out Of Organic Cotton. The Top Is Knit Which Can Be Interchanged And Worn. There Is A Tie Closure At The Back. The Hem Is Foldable



CASUAL WEAR - TECH PACK					
Category	Toddlers	Date		Fabrication	Knit top and denim
Style	Casual wear	Designer	Shera_Apa	Fabric design	No embellishment
Description	Denim dungarees paired with interchangeable top				
SAMPLE REQUEST FORM					
Measurements	2T	3T	4T	Sketch	
Height	34"	37"	40"		
Weight	13 kg	15 kg	17 kg		
Shoulder to waist	14"				
Across shoulder	11"				
Neck circumference	9"				
Neck depth	5"				
Centre to crotch	18"				
Chest circumference	20.5"				
Waist circumference	20"				
Hip circumference	22"				
Sleeve length	5"				
Sleeve open	8"				
Fabric details				Size adjustable Explanation: The denim dungarees is a classic style. It can be paired with any top and worn. The sleeve of the top dungaree sleeve with foldable hem. The waistline has elastic band. It is a baggy loose fitted pair which can fit the kid. Drawstring is added so that the neckline can be adjusted.	

Fig. 18. (A) The V Dungaree Design; (B) The V Dungaree Tech Pack

3.4.5 Frills More Dress

As Shown In Figure 19 This Ruffled Tunic Is With A Patch Pocket. It Is Made Of Tencel And Organic Cotton. It Is Halter Neck Style Which Can Be Tied Around The Neck. There Is An Elastic Band At The Chest Region At Back For Fit.



CASUAL WEAR - TECH PACK					
Category	Toddlers	Date		Fabrication	Tencel and organic cotton
Style	Casual wear	Designer	Shera_Apa	Fabric design	No embellishment
Description	Sleeveless tunic with double ruffled hemline				
SAMPLE REQUEST FORM					
Measurements	2T	3T	4T	Sketch	
Height	34"	37"	40"		
Weight	13 kg	15 kg	17 kg		
Shoulder to waist	14"				
Across shoulder	11"				
Neck circumference	8"				
Neck depth	4"				
Arm size	6.5"				
Chest circumference	20.5"				
Waist circumference	20"				
Hip circumference	22"				
Waist to hip	5"				
Sleeve length					
Sleeve open					
Fabric details				Size adjustable Explanation: This ruffle dress can be paired with a trouser and worn when a kid outgrows the garment. The neck width can be adjusted with the cloth strap which is tied and can be knotted.	

(a) (B)

Fig. 19. (A) Frills More Dress; (B) Frills More Tech Pack

3.4.6 The Orange Puff

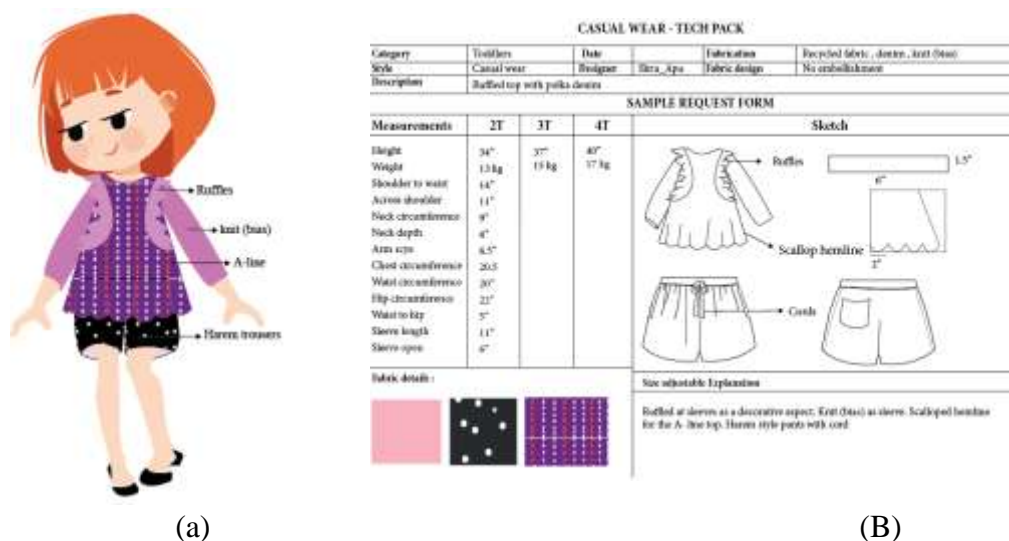
As Shown In Figure 20 A V Neck With Buttoned Down Style. It Is A Puff Sleeve Dress Which Has Partial Yoke. These Gathers Provide More Space For The Growing Child. The Hem Of The Sleeve Can Be Adjusted And Secured. The Fabric Is Modal With Motifs Which Is Woven.



Fig. 20. (A) The Orange Puff Design; (B) The Orange Puff Tech Pack

3.4.7 Dots And Dashes Set

As Shown In Figure 20 A Harem Style Shorts Paired With Ruffled Recycled Fabric. The Sleeve Is Made Of Bias Knit Fabric. The Top Is A-Line Silhouette. Ruffles Are Used Here As A Decorative Aspect Over The Top.

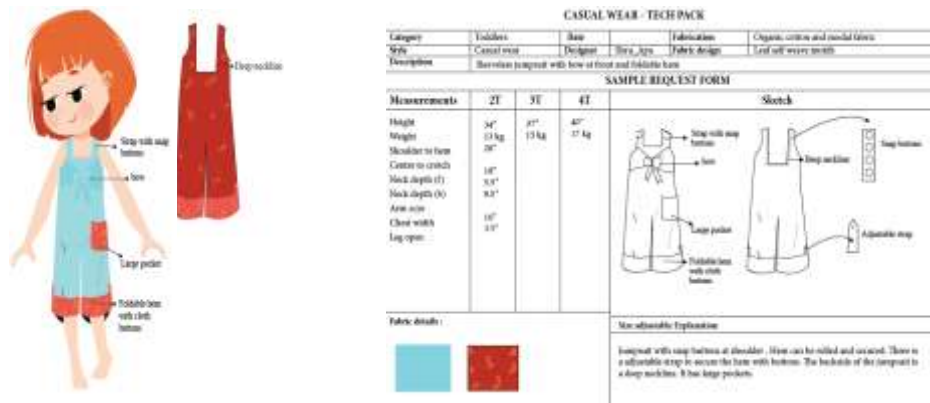


(a) (B)

Fig. 20. (A) Dots And Dashes Design; (B) Dots And Dashes Tech Pack

3.4.8 FB Jumpsuit

As Shown In Figure 21 In This Jumpsuit, The Front Fabric And The Back Fabric Is Different. The Hem Of The Jumpsuit Can Be Rolled Up And Secured With The Flap Buttons. It Has Large Pocket And A Bow Can Be Tied At The Front. The Neckline For The Back Is Deep.



(a)

(B)

Fig. 20. (A) FB Jumpsuit Design; (B) FB Jumpsuit Tech Pack

3.4.9 Capsule Wardrobe

One Of The Early Adopters Of This Method, Describes The Concept This Way: A Capsule Wardrobe Is A Practice Of Editing Your Wardrobe Down To Your Favourite Clothes (Clothes That Fit Your Lifestyle + Body Right Now), Remixing Them Regularly, And Shopping Less Often And More Intentionally.

The 8 Designs That Have Been Developed Can Be Mix And Matched. The Skirt Can Be Paired With A Loose Fitted Top While The Crop Top Can Be Worn With Dungaree. By Doing So, A New Outfit For The Kid Is Created. The Eight-Clothing Set For Girls' Toddlers Can Make Almost 15 Sets Of Clothing. The Range Plan For The Collection Is As Seen In Figure (4.31)



Fig. 23. Capsule Wardrobe

4. CONCLUSIONS

In This Project, A Sustainable Concept Called Capsule Wardrobe Was Followed To Create A Toddler's Collection Using Eco-Friendly Fabrics And Deadstock Fabrics. This Attempt Was Made To Also Create Size Adjustable Clothing For Toddlers – Girls Aged Between 1 To 3 Years. The Handloom Fabrics Are Used To Produce Sustainable And Ethical Garments For Kids. These Fabrics Showcases Excellent Properties With Respect To Its Comfort, Breathability, Soft Feel And Usage Of Azo-Free Dyes. Consumer Awareness Towards Sustainability Has Shown A Huge Progress Over The Years. Preferences To Buy Slow Fashion And Handloom Fabrics Have Increased. Creating A Capsule Friendly Wardrobe For Kids Is One Of The Solutions To Reduce Fast Fashion Buy And To Encourage The Consumers And Customers To Follow A Green Clothing Lifestyle. This Section Is Not Mandatory, But Can Be Added To The Manuscript If The Discussion Is Unusually Long Or Complex.

5. REFERENCES

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