



TRASH TO TREASURE

To Latwal Nu Lavwal



Trash to Treasure Team



**CO-TRAINER:
JAY RAMJUNUN**



**TEAM LEADER:
HAFEEZA
MAMOOJEE
KHATIB**



**ASSISTANT
LEADER: SALMAN
TARSOO**



**KESHAV
JUNGBADOOR**



KISHAN TUPSY



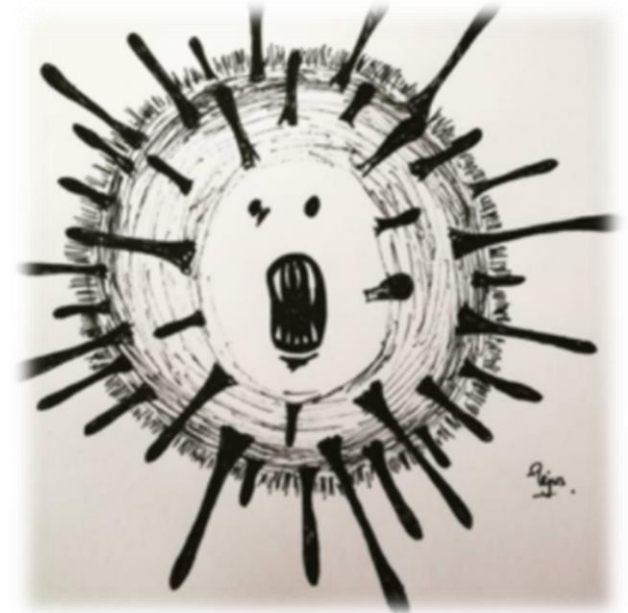
**VISHALEE JASODA
BIKOO**



**TEJUSVIN
LUXIMON**

Problem Definition

- With the COVID-19 Pandemic and decrease in income, it became harder for Mauritians to maintain their standard of living.
- Increase in Unemployment rate by 4% 2019→2021
- Inability of housewives to get an 8-5 job
- 3% of textile production are rejected as wastes which end up in landfills creating pollution and financial leakage.



Problem Definition

Hit by 2 waves of the pandemic in 2020-2021, the spectre of unemployment is already looming on the community. In this pandemic era, Mauritians are feeling less secure about their current jobs and sources of income.

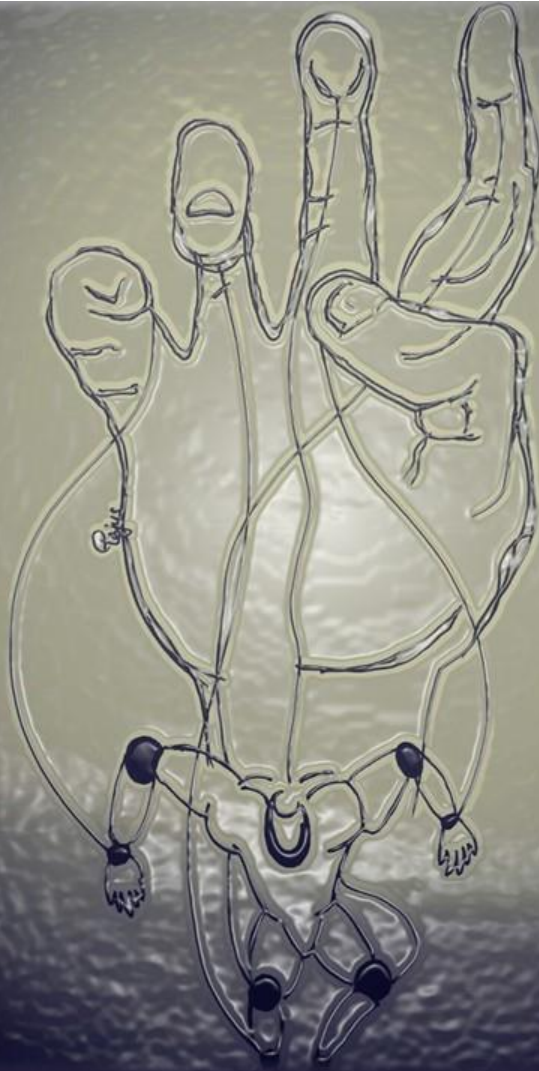
Our project aims to attenuate this dilemma!

We are bringing forward a concept where we intend, to not only tackle unemployment but also commit to a better environment and society.

Hold on! Economy, Environment..Society!

You guessed it right we are coming with a **Sustainable project** where waste is viewed as a resource and upcycling is optimised to create jobs.

TRASH TO TREASURE!





● AIM

The aim of this project is to empower people to be economically independent through upcycling of industrial textile waste to create fabrics handicraft.



OBJECTIVES



© To upcycle waste fabrics in the Textile Industry

© To train community people to effectively produce and market fabrics handicrafts from textile waste

© To reduce environmental pollution

© To create employment opportunity and boost the local handicraft industry



MUDA

Muda is a Japanese word meaning "wasteful" and is a key concept in the Toyota Production System (TPS), the precursor to LEAN Manufacturing.

Muda is a process that does not add value. The customer is only willing to pay for work that adds value. Therefore, reducing or eliminating Muda is an effective way to increase profitability and is a fundamental philosophy to LEAN manufacturing practices.

The system identifies and classifies 7 major Muda:



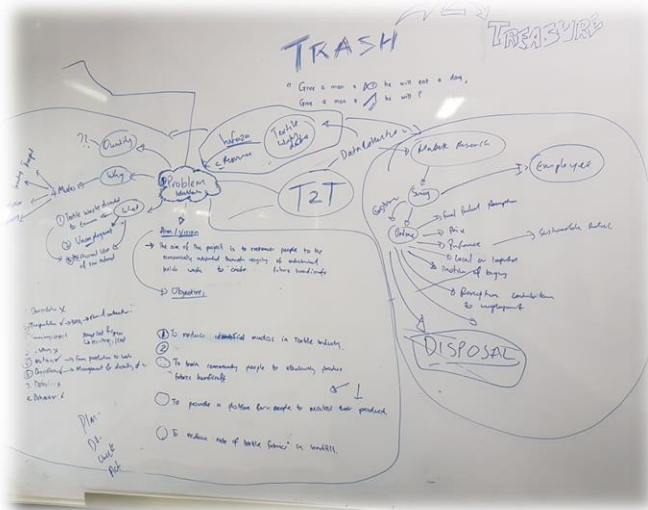
	Muda	How the process generates Muda	Quantification
W	Waiting		
I	Inventory	Factory space is required to store the waste until disposed of	
D	Defect		
E	Extra processing	Huge amount of energy and manpower required in handling and discarding the waste	Manpower – 6 Fuel consumption
T	Transportation	The trimming are carried from factory to dumping ground	Per week – 2 x 500kg Per year -
O	Overproduction		
M	Motion		

SCAMPER TECHNIQUE

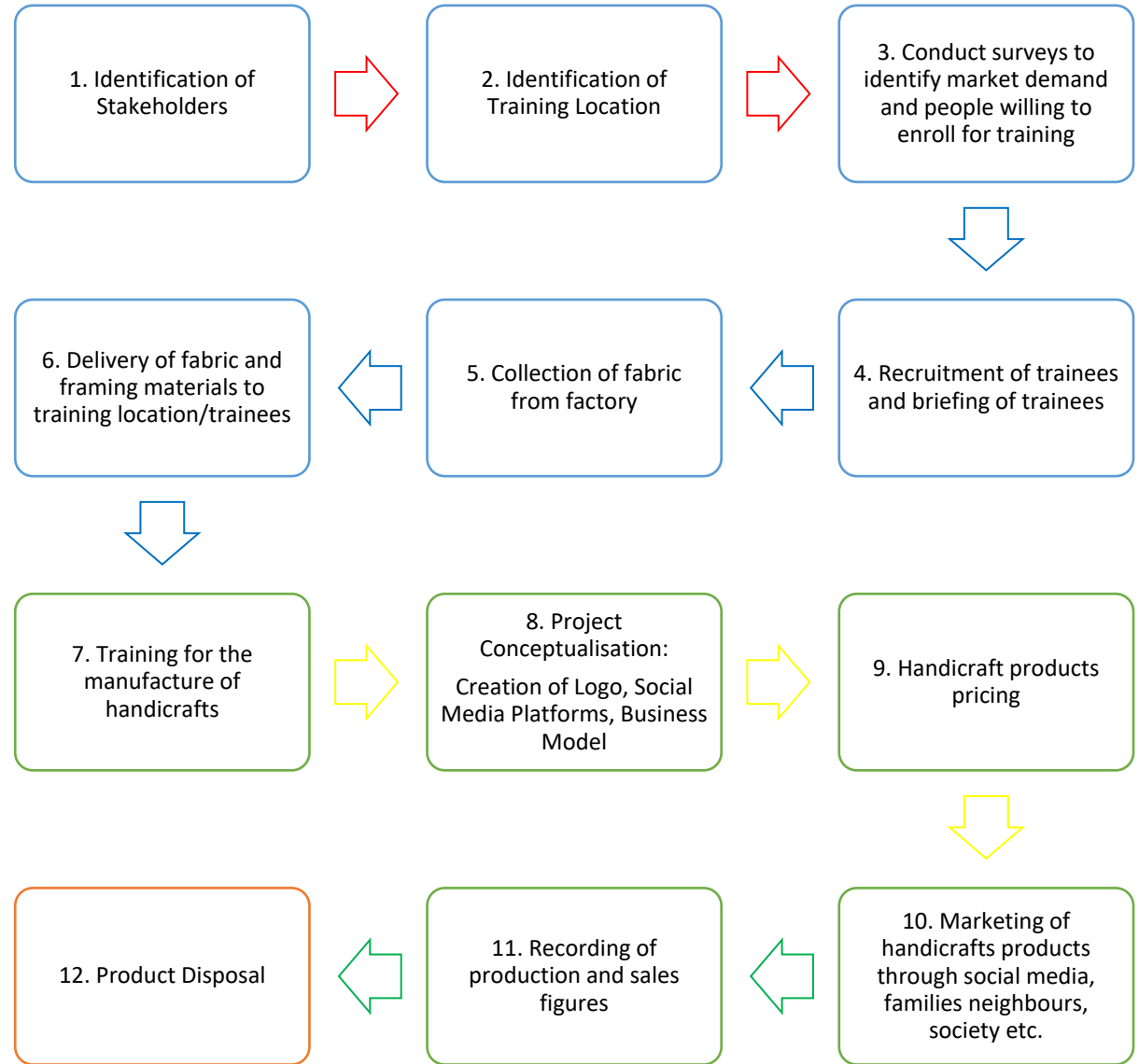
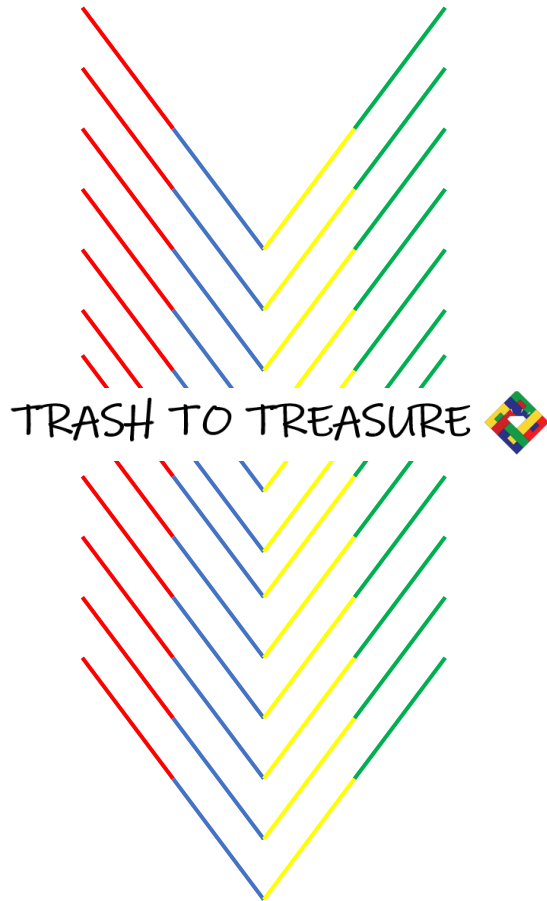
S	Substitute	To bring forward a more environmental friendly material, textile waste, as a substitute of natural rubber in the making of handicraft products such as rugmats, flower pots, bags, etc.
C	Combine	To bring together the fundamentals of sustainability under this project and help in achieving a better society for all. Environment - Upcycle waste into useful handicrafts Society - Bring knowledge and training to the society and untapped labour market. Economic - Help to bring a revenue in needy families and contribute in building a working community
A	Adapt	To adapt climate change rising issues by bringing a sustainable project within environmental boundaries. To analyse and adapt to market demands for new Fabric handicraft products.
M	Modify	To change the living standard of unemployed people by training them to become self-independent and change contribution of Textile industries to sustainability.
P	Put to other uses	To upcycle textile waste that were originally discarded into landfills, into handicraft products.
E	Eliminate	To eliminate warehouse costs and land pollution
R	Rearrange	To rearrange the value of waste in the textile manufacturing industries by upcycling them into value added handicrafts.



BRAINSTORMING OF IDEAS

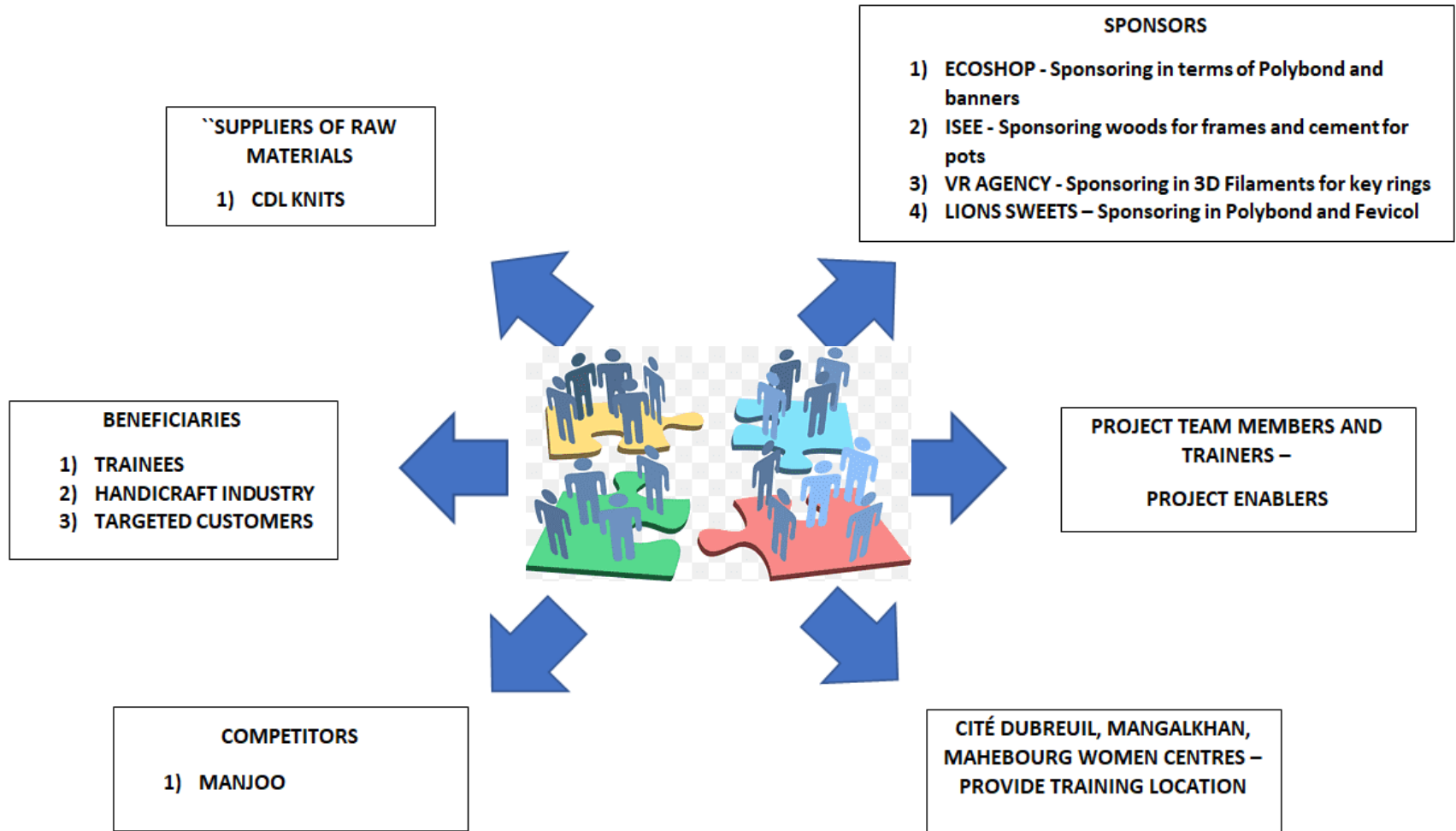


The Project Implementation Roadmap:



Project Stakeholders

1. Identification of Stakeholders



3. Conduct surveys to identify market demand and people willing to enroll for training

Data Analysis

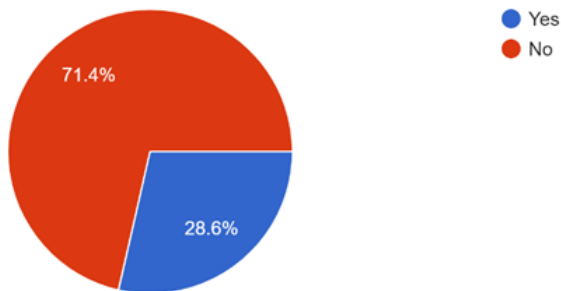


Due to the pandemic, we had to carry out the survey online. Questions asked about the concept of upcycling products and about participating in the training program.
91 respondents from the survey.

Below are important insights gained from the survey:

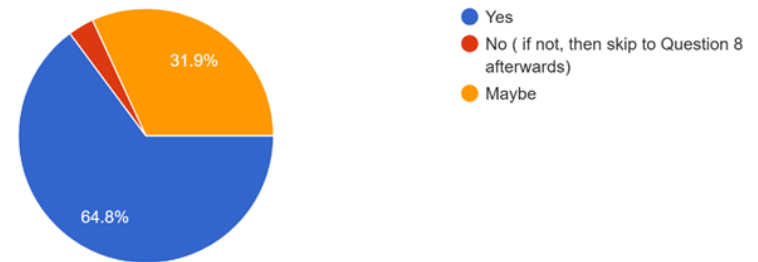
1.Do you know what is being currently done with those textile waste?

91 responses



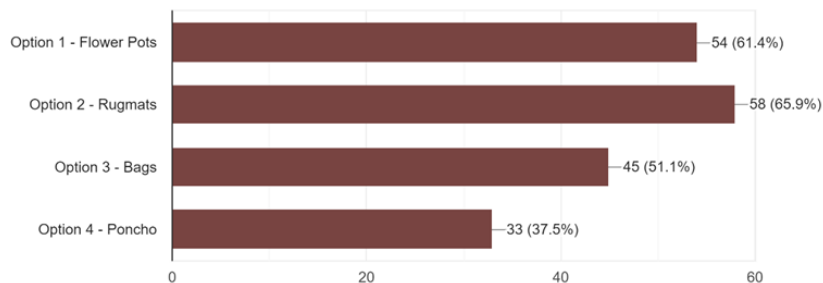
3.If those textile waste are to be upcycled to other products, would you be interested in purchasing it?

91 responses



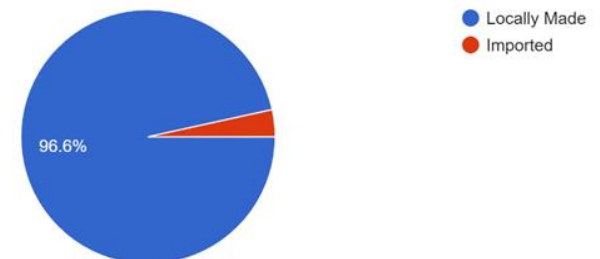
4.Below are products which can be made up from textile waste. Which of these products would you be interested to buy?

88 responses



5.Would you prefer to buy these products if they were locally made or imported?

87 responses



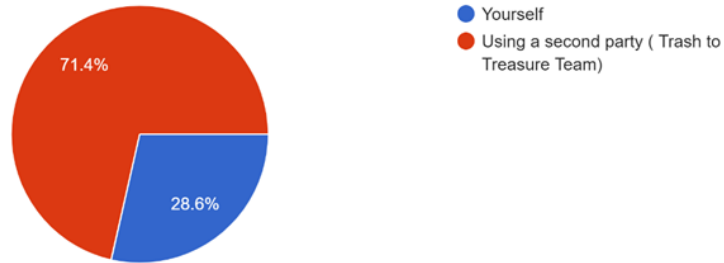
Data Analysis



3. Conduct surveys to identify market demand and people willing to enroll for training

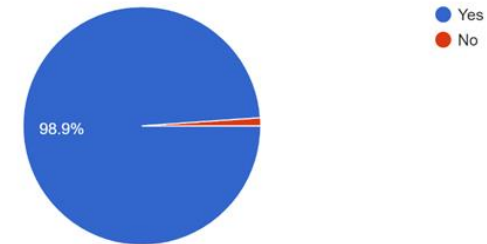
5. How would you be willing to sell your products?

7 responses



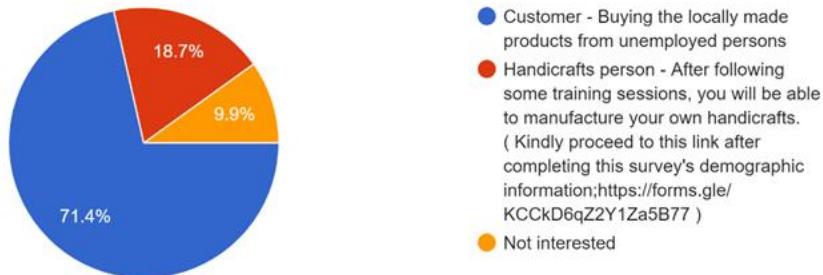
8. Would you be willing to buy a locally made product which can be disposed of without causing any environmental damage?

91 responses



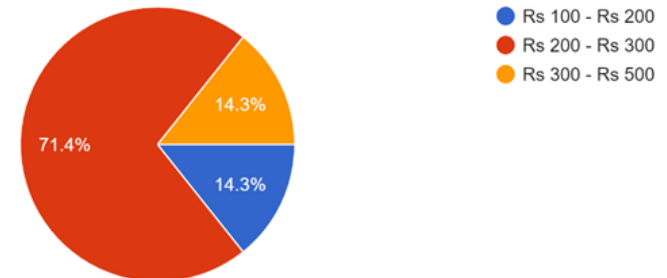
9. Would you be interested in participating in this project and as whom ?

91 responses



6. How much do you expect to earn when selling one locally made product?

7 responses



5. Collection of fabric
from factory



**TEXTILE
WASTES**

7. Training for the manufacture of handicrafts

Training

Instructions for making oval rug mats

Start with the chain of the length you need and then turn and crochet to the beginning of the chain and back up the other side going around and around. In order for this to lay flat, you have to add a chain or two at the curved ends as needed.

Instructions for making rectangle or square rug mats

Start with the chain of the length you want the rug to be wide. Crochet back and forth across that length until the rug is as long as you want it to be. Make to add a single chain stitch to the end of your rows before you turn back so that your edges are straight.

RUG MAT PROJECT

Helping people out of poverty through empowerment...



INSTRUCTIONS TO STEP BY STEP RUG MAT

Step 1

Prepare your materials. Decide on which colours you want to put together and make sure you have enough for the dimension of the rug you want to do.

Step 2

Turn a piece of fabric into a loop by cutting small slit at the end and joining the two loops together.

Step 3

Depending on the look you want to achieve, you can add on other colours.

Step 4

Start crocheting. Wrap the fabric strip around the hook from the front to the back.

Step 5

Hold the fabric with your finger so it does not slip off. Push the tip of the hook through the hole.

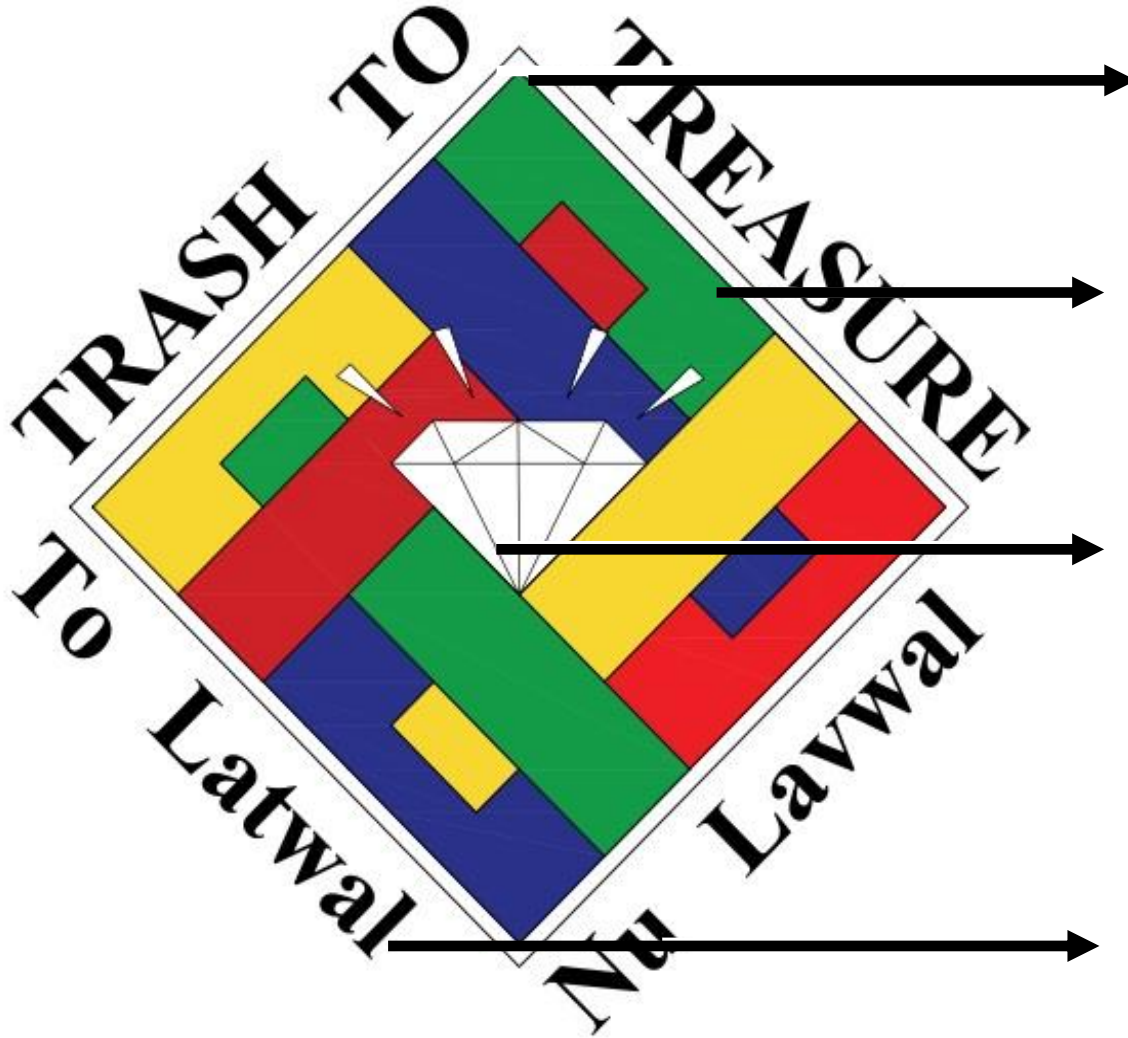
Step 6

Grab the yarn with the hook and pull the yarn back through the hole.

Step 7

Continue to pull it through both the loops on the hook.

LOGO



The colours
represent our
national flag color

The lines are the
weaving of the rugmat

The diamond
represents the treasure
from the upcycle
process

The waste fabric are a
mean for the people to
navigate towards their
financial independence

Use of creole language
to show
“mauritianism”



TRASH TO TRESURE



TO LATWAL
NU LAVWAL'

Sailboats are powered by sails (LAVWAL) using the force of the wind. Sailors harness the wind to move their boats.

The curve of the sails retain the flowing air to provide power and forward drive to the boat. As a result the boat is pulled forward.

Similarly, the recycled textile (LATWAL) is our curved sail that will drive our project to success and give people a means to move forward!

TRASH TO TREASURE: PRODUCT REVEAL

RUGMAT

VASE

BAGS

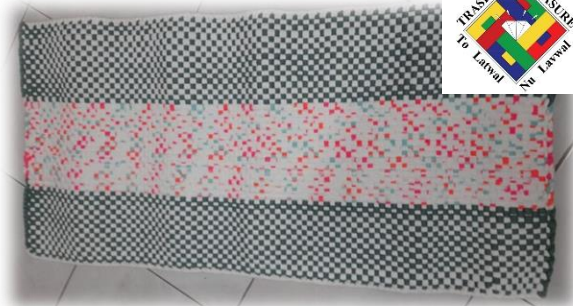
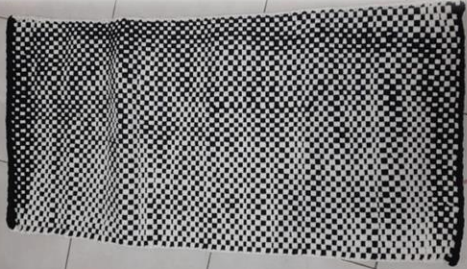
TRASH TO TREASURE



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PRODUCT 1: RUGMAT



9. Handicraft products
pricing

Rugmats Price List

Rugmat Price List					
Item	Product Id	Description	Price (Rs)		
			Small (30 cm x 30 cm)	Medium (60 cm x 90 cm)	Large (120 cm x 100 cm)
	Red Velvet	Mono colour	100	300	550
	Blue Sapphire	Dual colour	150	400	600
	Purple Pebbles	Dual colour	150	400	600
	Vona Corona	Jacquard	200	450	650

	Hibiscus	Fancy	175	425	625
	Flamboyant	Jacquard	200	450	650
	Shades of Grey	Dual colour	150	400	600

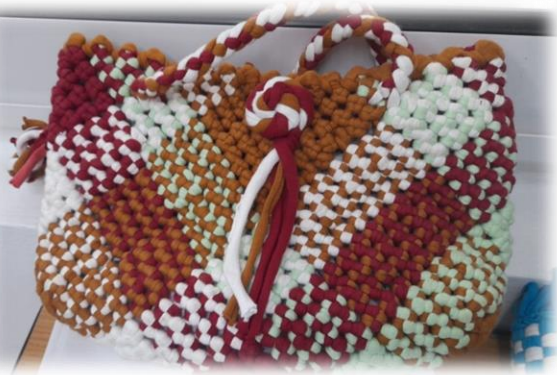
PRODUCT 2: Flower Pots



Flower Pots Price List

Vase Price List			
Item	Product Id	Description	Price (Rs)
	Wakashio	Large (ø 60 cm x 100 cm)	550
	Coralite	Medium (ø 25 cm x 30 cm)	350
	Snowwhite	Small (ø 18 cm x 20 cm)	125

PRODUCT 3: BAGS



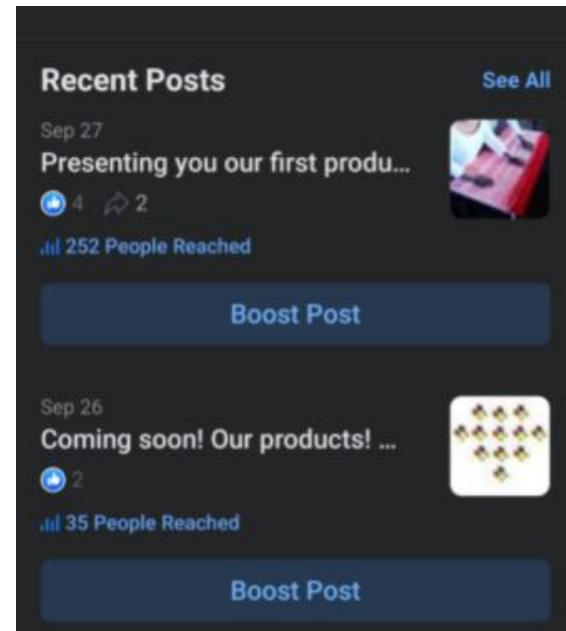
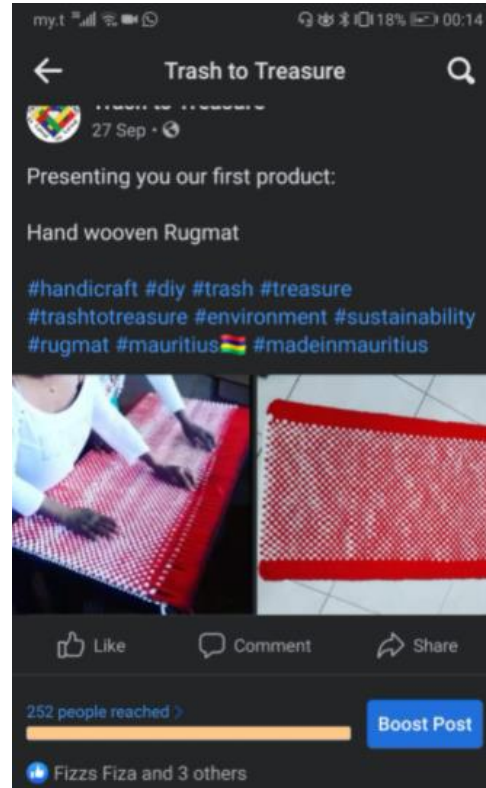
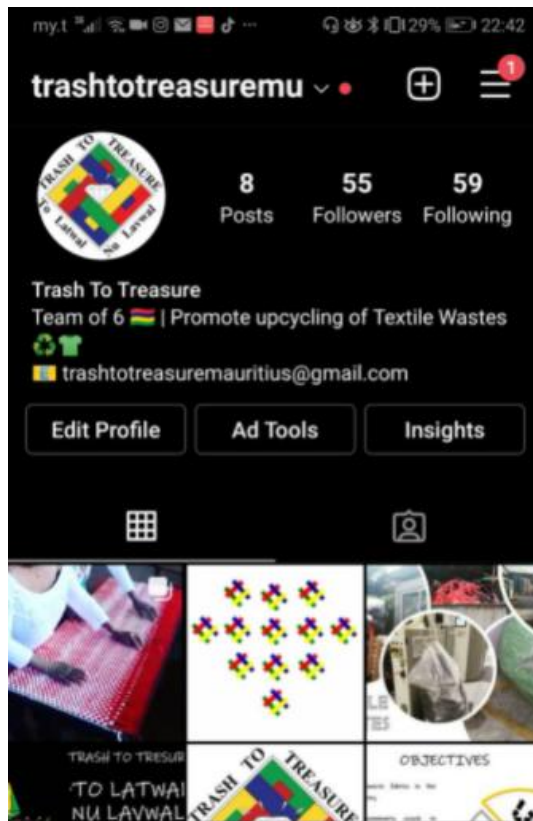
SOCIAL MEDIA & COMMUNICATION



Facebook and Instagram



10. Marketing of handicrafts products through social media, families neighbours, society etc.



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handicrafts products
through social media,
families neighbours,
society etc.

SOCIAL MEDIA and COMMUNICATION



Roles of Team Members



Actions	Hafeeza	Salman	Keshav	Tejus	vishalee	Tepsy
Stakeholders identification	Leader		support			
Training location identification	support	Leader				support
Survey build up and analysis					Support	Leader
Onboarding of candidates	Leader	Support	Support			
Training preparation and delivery	Leader		support	support		
Product pricing	support		Leader			
Social media platform creation and management	support	support	Support	Leader	Support	support
Testimonial recordings	Leader	support	support	support	support	support
Project documentation	support	Leader	support	support	support	support



CHALLENGES



Challenges	Actions taken to overcome challenges
Difficulty to get contact with the person interested and eligible for the project (Covid situation)	Linked to the people through NGOs Caritas and mediators
Getting contact with people for survey (Covid situation)	Development of online survey and get through people through social medias
Difficulty to meet team due to covid gathering restriction and tight work schedule	Online meeting through zooms
Conducting onsite training	Special arrangement for covid protocol organized with mask and sanitizer sponsored by factory
Keeping the ladies momentum and encouragement for training, manufacture and sales of their handicraft	Giving the materials and training without any liabilities to the people The concept of zero risk for them and all expenditures and support from us have been key to keep the eagerness
The project required some specific skills such as handling cement to create vase, sowing of the textile wastes, artistic expertise. (which is not in our field expertise)	Learning through online free videos , compilation of manuals for the training helped to gain confidence and ease the skill transfer process
video making and social media handling were required.	Seeking peers help for guidance
Not getting male trainees	Add flower vases in portfolio of products
Trial for composting not successful	Produce bags as an alternative

PROJECT RESULTS



- Over 100 Rugmats produced
- Average income per trainee: Rs 2, 500
- 10 Trainees and 1 Trainer



Name : VOLEY Michaella
Address: L'Allée Jacques, St Paul
Contact No: 597 88 632
Status: Married
Children: No
Job Description: Housewife
Knowledge: Hand Sewing



Name : RAVANNE Chantal
Address: 16eme Mille, Residence Anuka Forest-Side
Contact No: 585 32 408
Status: Married
Children: 3
Job Description: Housewife
Knowledge: Sewing/ Hand craft



Name : GUNGADIN Fabiola
Address: M04, NHDC Nouvelle-France
Contact No: 579 90 538
Status: Married
Children: 3
Job Description: Housewife
Knowledge: Sewing



Name : RAMSAMY Nadine
Address: A19, Avenue Green Wood Cité Atlée Forest-Side
Contact No: 676 13 47 // 5429 94 408
Status: Married
Children: 3
Job Description: Housewife
Knowledge: Sewing



Name : ROMANCE Laura
Address: Route Tranquille, Vacoas
Contact No: 593 07 038
Status: Divorcee
Children: 2
Job Description: None
Knowledge: Hand Sewing of garment / Croché



Name : LAYOVE Corine
Address: La Marie Road, Vacoas
Contact No: 597 47 118
Status: Married
Children: 5
Job Description: Housewife
Knowledge: Croché, Handmade artisanal with wool Tread



Name : PRUDENCE Anne-Marie
Address: T03, NHDC Nouvelle - France
Contact No: 594 695 69
Status: 4
Children: 4
Job Description: Housewife
Knowledge: Sewing, Artisanal products