



DIAPER MANAGEMENT

TEAM : GREEN SAVIOURS

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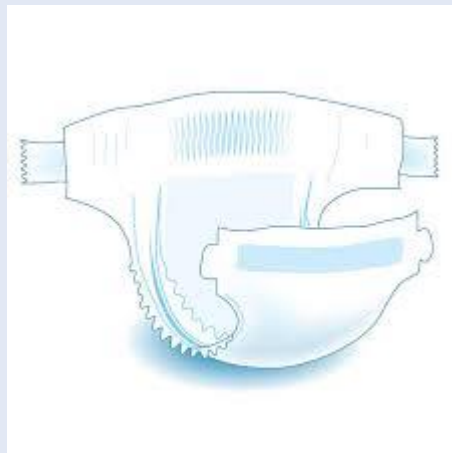
FIDA FATHIMA

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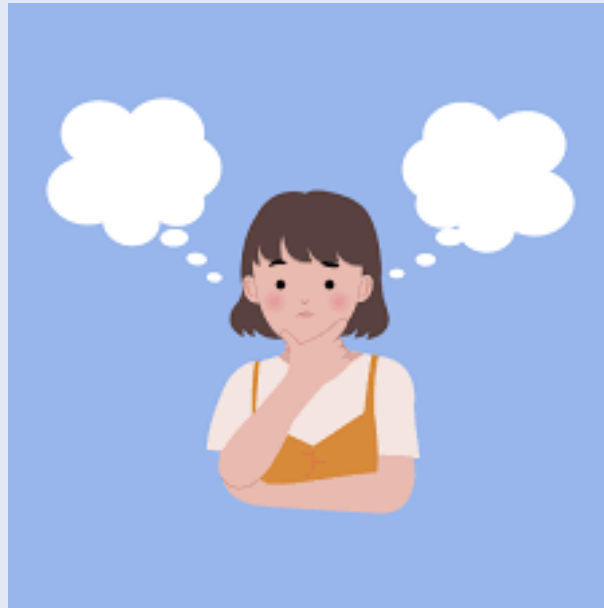
PROBLEM STATEMENT

Disposing of diapers and sanitary napkins is a daily struggle. It's not unusual to find garbage bags filled with diapers and sanitary napkins dumped around waste collection points.

The agencies assigned by them will pick up diapers or sanitary waste as it can't dispose of them effectively. This creates a difficult situation for both residents as well as waste collectors.



WHAT IS THE SOLUTION ?



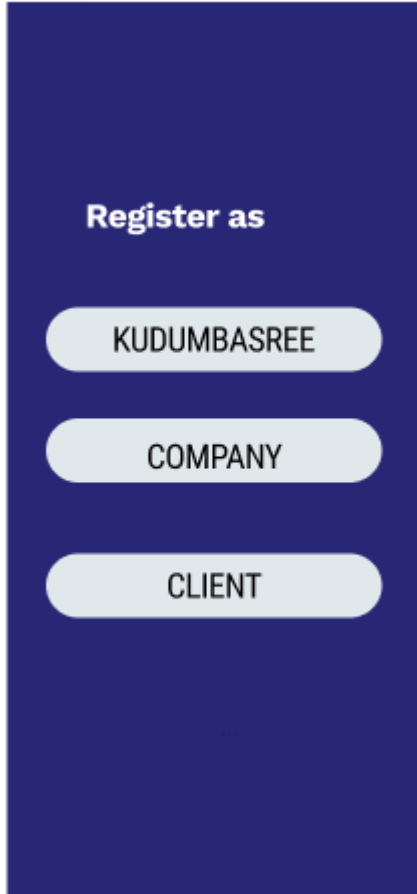


OUR ACTIVITIES

- Development of disposable diaper or sanitary napkins recycling technology
- Separation of SAP , plastics , pulp from disposed diaper or sanitary napkins
- Development of environmentally-friendly products

REGISTRATIONS

- ☐ Kudumbasree registration
- ☐ Company registration
- ☐ Client registration



Register as

KUDUMBASREE

COMPANY

CLIENT

DISPOSAL OF DIAPERS

- The client disposing of the diapers or sanitary napkins should first register in this app.
- Then login by using email/id and password
- Then the client has to mark how many diapers or sanitary napkins puts in that basket or weight of the material mark.
- Then entering the location details place and pincode .
- After all the details are uploaded.
- Then dispose of the diaper or sanitary napkins in a prepared basket.

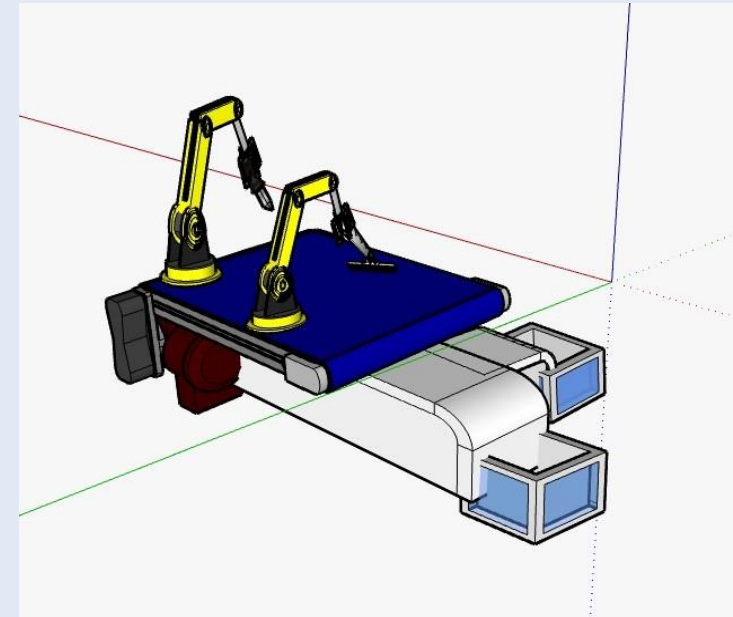
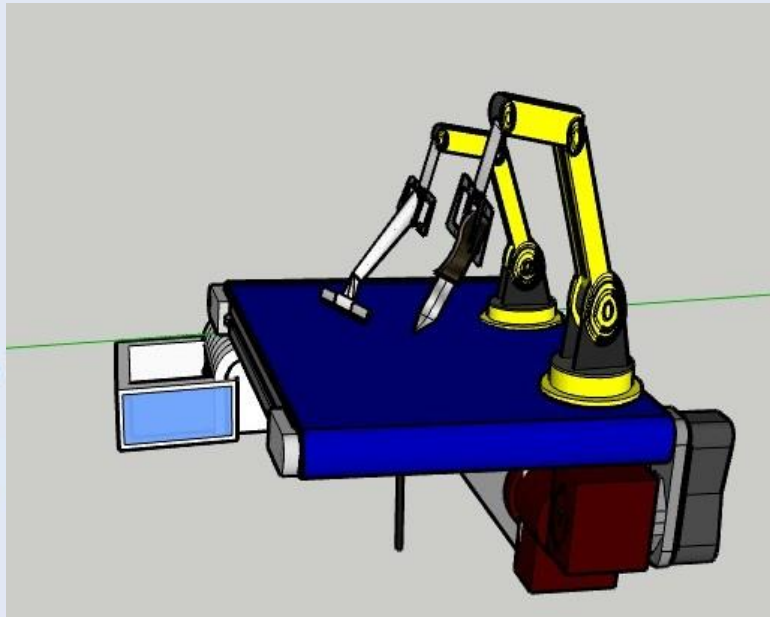


SEPARATION OF DIAPERS

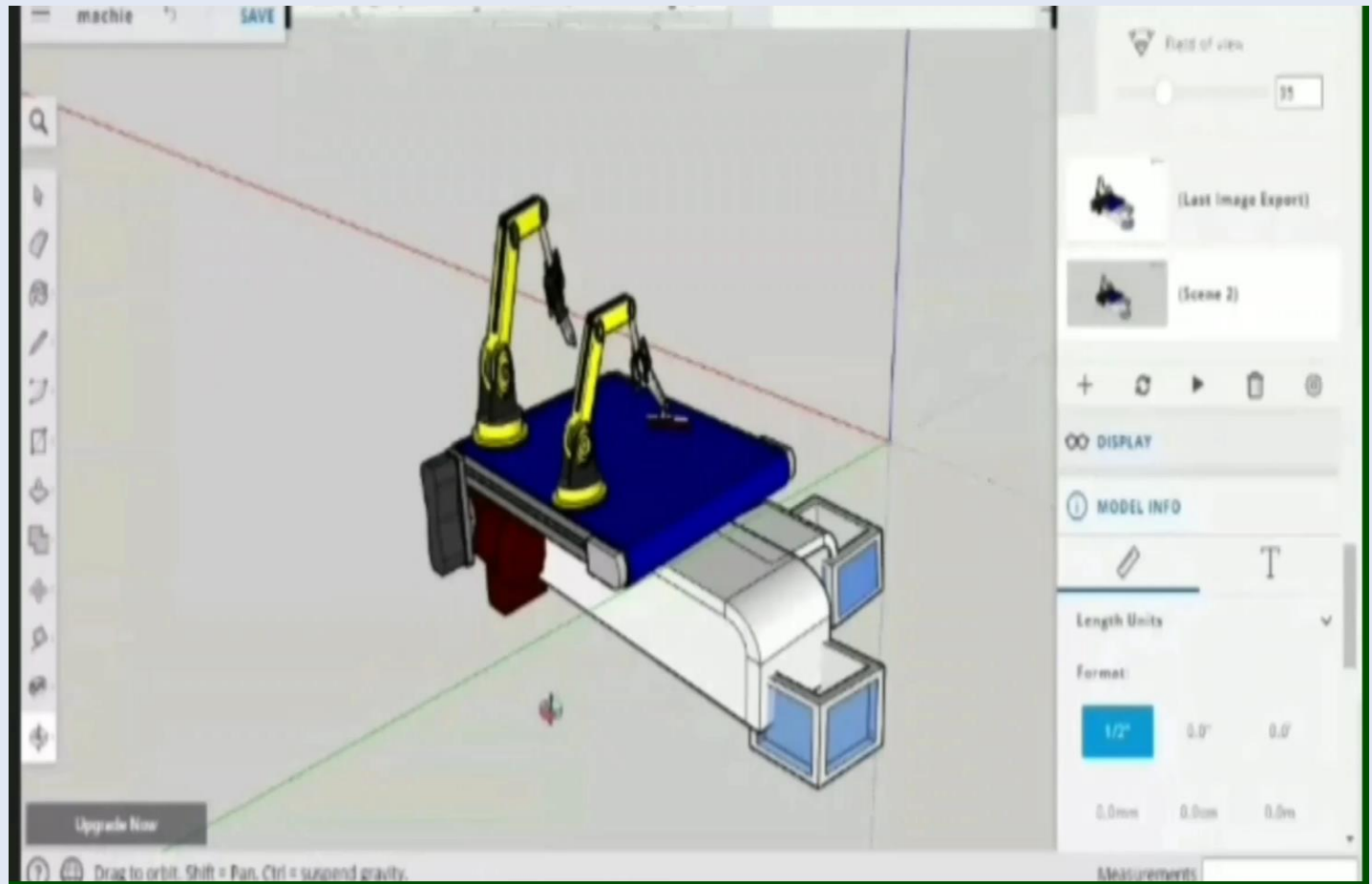
- ☐ Plastic separation
- ☐ SAP separation
- ☐ Pulp separation

PLASTIC SEPARATION

- The first step disposed diapers or sanitary napkins are put on to the machine .
- Then scrapping the plastics from the diapers or sanitary napkins.
- after separate the plastic and pulp

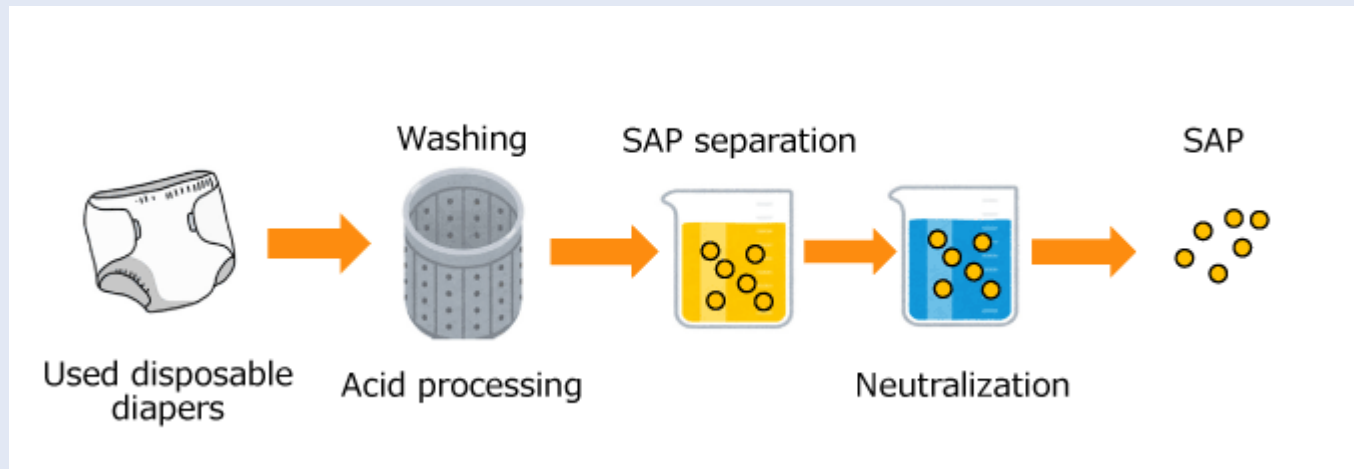


MACHINE DESIGN



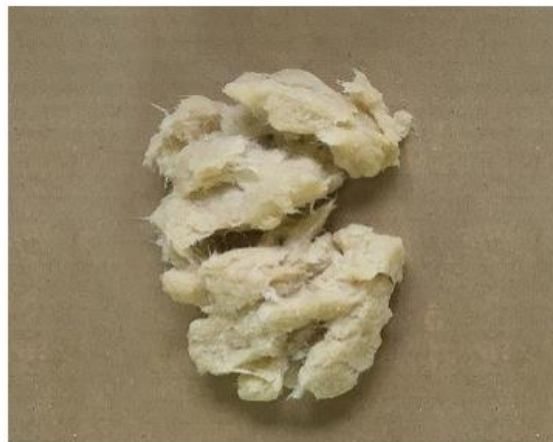
SAP SEPARATION

- Super Absorbent Polymer (SAP) is an important constituent material of disposable diapers or sanitary napkins which has the function of absorbing and retaining moisture.
- In order to recycle used disposable diapers or sanitary napkins, the moisture absorbed by the SAP must be completely expelled and the SAP returned to a state in which it can absorb moisture again.



PULP SEPARATION

- Our recycling system applies a unique ionization process to the pulp that we extract from used disposable diapers or sanitary napkins by means of cleaning and separation.
- The ionization process destroys the bacteria contained in the excretion. In this way, recycling is able to generate high-quality pulp that is just as hygienic and safe as virgin pulp.
- We also recycle the waste water generated in the cleaning and separation process, thereby making processing more efficient and also reducing the amount of waste water that needs to be discharged.



<Pulp prior to ozone treatment>



<Pulp after ozone treatment>

BUYING AND SELLING

- The Kudumbasree unit has two main functions
- One is to collect diapers or sanitary napkins from clients.
- another sell the separated items to companies.

APP NAME-SEARCH

UNIT NAME

SELL ITEM

BUY ITEM

OK

BUYING DISPOSED DIAPERS

- When login the Kudumbasree unit with e-mail ID and password, they will see Buy item and sell item.
- Click on the buy item ,Then enter the Kudumbasree unit name.
- where each Kudumbasree unit can collect diapers or sanitary napkins the name of place and pincode is available.
- filter the place where you want to collect the diapers or sanitary napkins and the pincode from them.
- Then go directly to collecting the diapers or sanitary napkins in client given address tick the first option and submit.
- Ortherwise if the client drop the item in a select location tick the seconde option and submit



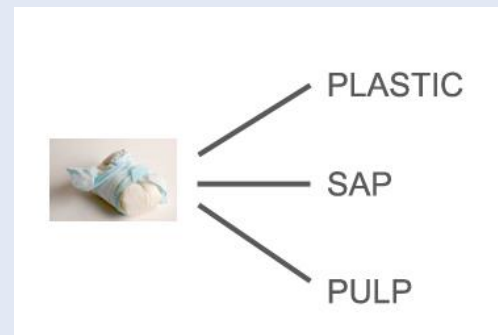
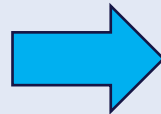
SELLING SEPARATED ITEMS

- The machine separates the pulp and plastic from it and then sells the remaining items to the company.
- The Kudumbasree unit uploads the segregated items . At the same time the location of Kudumbasree unit works ,pincode and the unit name are uploaded
- .
- The companies that access this data after the Kodumbasree unit uploading.



COMPANY BUYS THE ITEM

- Buy the company needs from the sell items that the Kudumbasree unit uploads. The kudumbasree unit number, place and pin code should be filtering.
- If the kudumbasree unit sell item is given, select the required items in the company and enter pincode of the company.
- Then enter the company information. Company name, place, pincode should be filtering.





Thank you