

Innovative Ecofriendly Coconut Husk Brushes

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Abstract:

AIM:

To reduce the time, energy and labours to cleaning the floor and bathroom by using the of innovative ecofriendly cocnut husk brushes.

INTRODUCTION:

The outer of almost houses are made by favors, interlocks or tiles or cement. Those are made dirty due to walking or by own vehicles or green algae of thallophytes are grown on the outside floor due to rain and also bathroom become dirty due to daily use. We can easily clean the floor and bathroom by using of the innovative ecofriendly cocnut husk brushes (Innovative Indigenous Floor And Bathroom Cleanig Brushes) in very less time which is made by coir husk. This is eco friendly brush. This brush worked on the principle of Simple Mechanism Theory.

METHODS:

Take two plates of 1.5x5 inches size of metal plate and these are bent as an arc. 4-5 holes are made on those plates equally for screw nuts. 3 pieces of desirable size of coir husk are cut at one end which becomes a brush. Each coir husk has a hole at another end as shown in the figure. Now, these coir husks are inserted between arc plates and fixed by the help of bolts tightly. Half feet of bent pipe is welded to this one with 60 degree angle as shown in the figure. And then two feet length wooden handle is fixated to this pipe as a handle.

Now we can easily clean by rubbing it against the bathroom tiles or outside floor with the help of water. It takes only one minute to clean 1 sq mt area. Comparatively with plastic brush takes three to four minutes. So we can save plenty of time along with being eco friendly. It costs 100 rupees only.

RESULTS/ OBSERVATION / FINDINGS :

As per practical we find out the results as follows.

Calculation of usage of innovative ecofriendly coconut husk brushes.

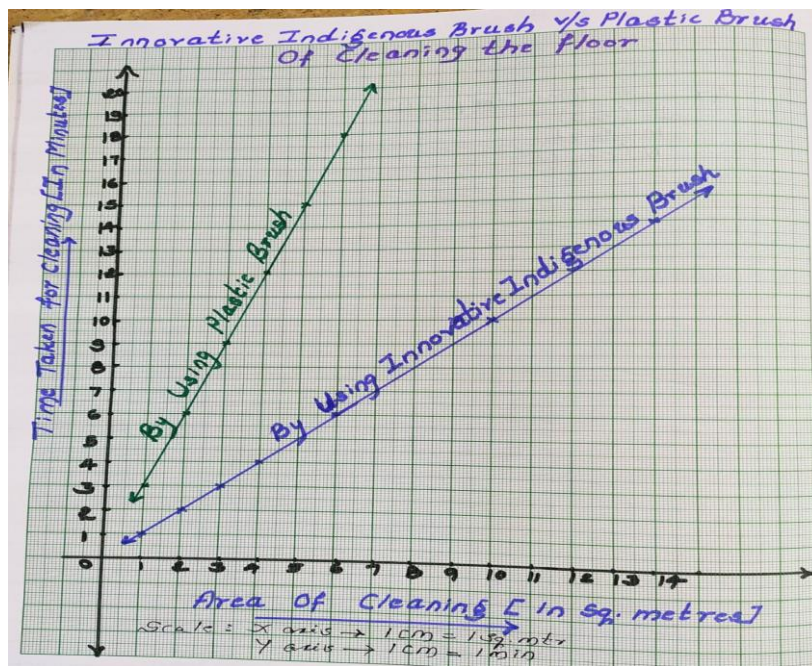
Area of cleaning	Time taken to clean by using plastic brush	Time taken to clean by using of innovative of ecofriendly coconut husk floor cleaning brush.	Saving of times
01 sq. metre	03 min	01 min	02 min
02 sq. metre	06 min	02 min	04 min
03 sq. metre	09 min	03 min	06 min
04 sq. metre	12 min	04 min	08 min
10 sq. metre	30 min	10 min	20 min
20 sq. metre	60 min	20 min	40 min

Survey Calculation :

We were conducted the survey of 102 houses to know about of plastic brushes used in a year and problems of plastic brushes.

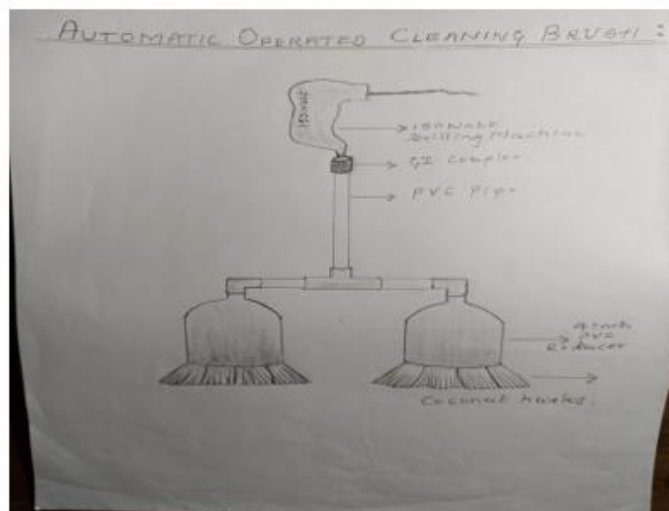
1. As per survey we had find each house used the average plastic brushes in a year 04 to 05 different type of brushes with average weight of 1.5 kg. and their total expensive is Rs 500.
2. As per survey we had find comparatively 15000 houses of our Sirsi town We may cut off the plastic usage of brushes in a year = 75000 And may cut off their weight of plastic brushes in a year = 22,500 kg And we can save their costs in a year = Rs. 75 lakh.

COMPARISON BY GRAPH METHOD :



Novelty:

1. **Single Coconut Husk Model :** We had also prepared the single husk model as shown in the photo gallery which is used to clean the corners of the floor easily.
2. **Automatic cleaning brushes:** We had improved it as automatically operated by using 100 watt motor as shown in photo gallery. It can clean the area of 01 square meter in 30 seconds.



BENEFITS / SIGNIFICANCE :

1. It is cost effective and eco friendly tools.
2. It may be prepared by own.
3. Time , Energy and Laborers are saved.
4. It is easy to handle.
5. Any who handled this one.
6. More and more cleaned the floor with no scratches.
7. It is no harmful to environment as comparetively plastic brushes.
8. No influence the back pain and hand pain.
9. Modified brushes used to cleaning the spider nets.
10. Single husk type of brushes also prepared to clean the corners

PHOTO GALLERY:

Fig: Innovative Eco-friendly coconut husk Floor Cleaning Brush



Fig: Demo of the innovative floor cleaner made by coconut husk



Fig: Single husk tool for cleaning

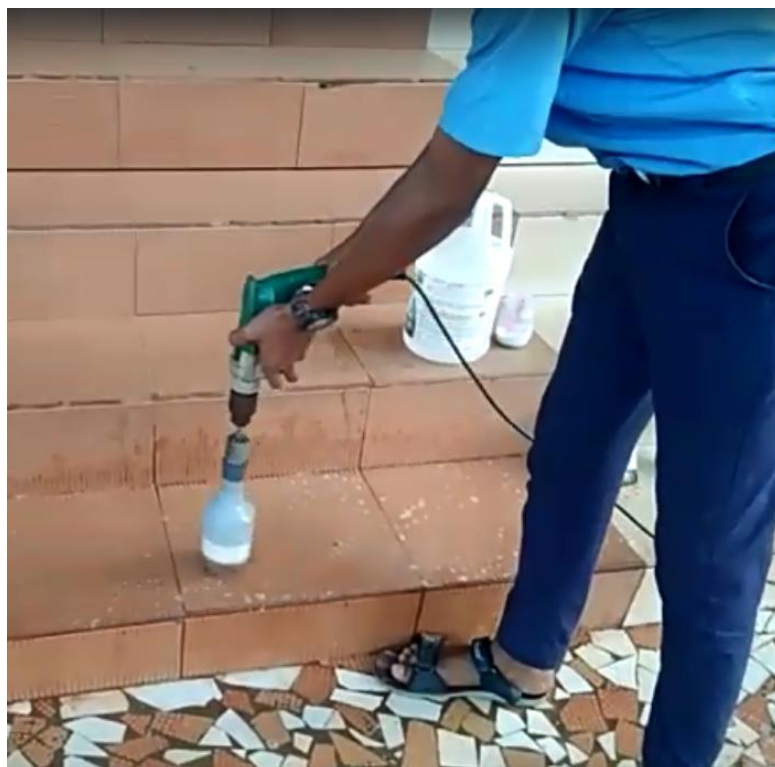


Fig: Automatic Eco-friendly coconut husk brush



Fig: Exhibiting the different type of Eco-friendly products



Used in outside and cattle floor cleaning



Used in bathroom and sink cleaning

