

### Extension Activity I (2019 – 2020)

As part of the curriculum, our III B.Sc., chemistry students are required to do extension activity to get marks and credits. In this regard every year our department is organising an extension activity programme in which our III year students and staff members were actively involved.

The objective of this programme is to create awareness among the women community about self-employment and entrepreneurship. In this programme, our students were demonstrating the preparation of household cleaning materials by using the required raw materials in correct proportions. Through this programme they motivated the women to earn more profit from less investment.

This year on 29.11.2019, our department has organised an extension activity programme at Periyar nagar, Dindigul. 28 students and 5 Staff members were actively participated in that programme. At that activity, we planned to prepare Detergent powder and detergent liquid.

Initially our HOD Dr.M.Dhanalakshmi, Assistant Professor, cordially invited the people for the programme and gave a nice introduction about our activity and the importance of self-employment. Then our students explained the ingredients used for the preparation of Detergent powder and detergent liquid and their proportions. They also demonstrated the preparation of the products in a well manner by adding the ingredients one by one.

#### 1. Preparation of Detergent powder:

S.NO.	INGREDIENTS REQUIRED FOR DETERGENT POWDER	PROPORTION
1.	Sodium carbonate (washing soda)	1000g
2.	Sodium Bicarbonate (Baking soda)	750g
3.	Sodium Meta sulphate (SMS)	100g
4.	Carbon methyl cellulose (CMC)	50g
5.	Ranipol	50g
6.	Sodium Tri Poly Phosphate (STPP)	25g
7.	Tri Sodium Phosphate (TSP)	25g
8.	Acid Slurry	250g
9.	Colour granules	25g
10.	Perfume	50ml

Our students demonstrated the preparation of detergent powder by taking a wide plastic container and added the above ingredients (1–7) one by one and mixed them well to get a nice powder consistency. Then they slowly added acid slurry with continuous stirring. Finally they added colour granules and perfume to get the final product, detergent powder.

## **2. Preparation of Detergent Liquid:**

S.NO.	INGREDIENTS REQUIRED FOR DETERGENT LIQUID	PROPORTION
1.	Sodium Hydroxide flux (Caustic soda)	250g
2.	Acid Slurry	1000g
3.	Tri Sodium Phosphate (TSP)	500g
4.	Urea	600g
5.	Perfume	50ml

Our students demonstrated the preparation of detergent liquid by taking a plastic container with 1 litre water and added caustic soda and mixed well. To that mixture, they slowly added acid slurry with continuous stirring. They have taken another plastic container with 1 litre water and added TSP and urea and mixed well. Finally they mixed both mixtures in another container, added perfume, mixed well to get the final product, detergent liquid.

At the end of the programme we gave free samples of the products to the people and got feedback from them. This programme encouraged our students as well as the village women to become small scale entrepreneur.

## **1. Preparation of Detergent powder:**



## **2. Preparation of Detergent Liquid:**

