

## **Patents**

**1. Application number- 201641042251; Applicant name Bharati S Meti and Shivaleela V B; Date of filing-10/12/2016; Title of invention- Cookie mix for special need; Area-Food; Date of publication-23/12/2016. Date of award- 3<sup>rd</sup> Nov 2020, Patent award No 350729**

**2. Application number 201741034620; Applicant name Shivaleela V B &Bharati S Meti; Date of filing-28/09/2017; Title of invention – Process of purification of glycerine; Area- Chemical; Date of Publication-05/10/2018. Date of award 30 /12/2021 Patent award No 385625**

**3. Application number- 201741034621; Applicant name Bharati S Meti&Shivaleela V B; Date of filing-28/09/2017; Title of invention- Soap preparation using organic waste for animal use to remove body pests like ticks; Area-Chemical; Date of Publication-05/10/2018 . Date of award -08/04.2022 Patent award No 394358**

4. Application number 202141033369A; Applicant name **Pavan Kumar, Bharati S Meti&ManjunathGirigowda**; Date of filing-25/07/2021; Title of invention – **Bioformulation of *Bacillus subtilis* for management of bacterial blight in pomegranate**; Area- Chemical; Date of Publication-30/07/2021. Present status- Hearing completed waiting for NBA

### **Brief Details of the Patents in the Department:**

1. a. The mix is specially designed to improve nutritional value and fiber content of the food.

b. The mix is made as economically viable using byproducts of the pomegranate industry. Mix avoids maida and bakery fat. No colour and flavor/essence is added, hence healthy

2. a. Glycerin is one of the byproduct produced at Biodiesel industry. It is very crude and the glycerine content varies with 40 to 45 % only. The lab scale process of glycerine purification is developed for Pongamia feedstock based biodiesel. Pongamia is commercially used feedstock for biodiesel production.

b. To make commercially viable process, byproduct utilization is important, hence an innovative process is developed to get 95 % purity of the crude glycerine

3. One of the byproduct in Pongamia based biodiesel industry is glycerine. This crude glycerine with two oils are used to formulate the soap to remove animal ticks. It is not having a colour/ fragrance and chemical, hence safe for pets and cattles. User friendly to apply and no harm to the environment also

4. Pomegranate is well grown in Bagalkot district and but bacterial blight is a problem, since it is an air borne pathogen, controlling is a challenge. A bioformulation is made using Bacillus sp and a honge oil is one of the ingredient in it.