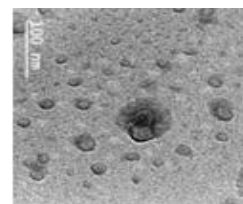
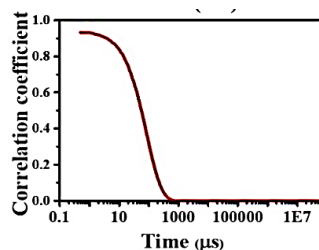
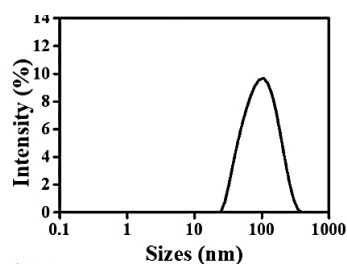


Shatpada: Insect repellent formulation and methods thereof

- **Brand Name:** Shatpada housefly repellent
- **Material:** Nanoemulsion based repellent
- **Production method:** Ultrasonic homogenization technique
- **Target pest:**
Housefly, *Musca domestica*
- **Method:**
The nanoemulsion composition comprising a plant-derived part and its constituent, or both; and a surfactant by an ultrasonication technique. Such a method provides an approach whereby the potency of the active constituent is enhanced by an assembly of the active compound in a matrix for effective pest management.
- **Dose:** Application of 0.03% nanoemulsion.
- **Target states:** Poultry units and dairy sheds
- **Validation:** The effect of nanoemulsion as repellents were evaluated in Malur (Karnataka)
- **Benefits:**
The metastable nanoemulsion composition has a homogeneous distribution of droplet size hence, capable of exhibiting superior repellence effect on various biostages of *Musca domestica*.



Size distribution by intensity and Correlogram of *T. ammi* EO NE

Droplets of nanoemulsion

- **Commercialization of technology:** The technology ready for commercialization.

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