

Shatpada Novel Device: Novel Device for Field Release of Parasitoids

- **Brand Name:** Shatpada Novel Device
- **Microbial Strain :** NA
- **Microbial Culture deposition & Accession No:** NA
- **Production method:** The device can be manufactured easily for the release of parasitoids viz., *Goniozus nephantidis*, *Bracon brevicornis* & other parasitoids
- **Target pest and crop:** Black headed caterpillar in coconut
- **Method of application:** The device is semi-permanent and easy to fix on the trunk of the tree.
- **Dosage of application:** Release of Novel Device @177/ha.
- **Target states:** Tamilnadu, Kerala, Karnataka, Pondicherry, Andhra Pradesh, Maharastra & Gujarat
- **Validation:** Validated in Karnataka



- **Benefits:**
 - It was practically impossible to release the parasitoids in large areas, such as coconut plantations, which sometimes cover up to thousands of hectares. Manual release will take 6.0 to 9.5 hours/hectare (2-3 min/palm) also warrants huge manpower. The novel and simple device will reduce the time and cost towards the manpower. Therefore, release of parasitoids in thousands of hectares can be covered in a short time and the precision of the release of parasitoids could be easily matched with the target pest stage (3rd to 7th instar larvae).
 - This technique can avoid stinging from the parasitoids as the mature cocoons (soon to emerge) are kept inside the device. The newly emerged adults will come out of the device through the insect emergence holes and climb up the trunk to the crown of the coconut palm. So, this device avoids the need for the farmer to handle the adult parasitoids which sting badly during release.
 - The device is semi-permanent and easy to fix on the trunk of the tree. During off season, the device can be removed and stored.
- **Commercialization of technology:** Nil

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