

## BioPesticides – An Introduction

Biopesticides are certain types of pesticides that are derived from natural materials like plants (Botanical origin) , bacteria , fungi and virus ( Microbial origin ) and certain minerals

When used as a component of Integrated Pest Management (IPM) programs these biopesticides can greatly decrease the use of conventional pesticides, while crop yields remain high.

The BioPesticides control pests / diseases either selectively or with broad spectrum approach. Biopesticides are usually inherently less toxic than conventional pesticides. Biopesticides are generally target specific and affect only the target pest and closely related organisms vis-à-vis broad spectrum, conventional pesticides that may also affect organisms such as birds, insects and mammals.

Biopesticides often are effective in very small quantities and decompose quickly resulting in lower exposures , no residues and environment friendly.

Agri Life manufactures the following Bio Pesticides :

### Botanical Origin BioPesticides:

1. Anosom from *Annona squamosa*
2. Derisom from *Pongamia glabra*
3. Margosom from *Azadirachta indica*

### Microbial Orogen BioPesticides

#### Biological Fungicides

- *Trichoderma viride*
- *Trichoderma harzianum*
- *Pseudomonas fluorescens*
- *Bacillus subtilis*
- *Fusarium proliferatum*

### Biological Insecticides

- *Metarhizium anisopliae*
- *Beauveria bassiana*
- *Verticillium lecanii*
- *Bacillus thuringiensis var kurstaki*
- *Ha- NPV*
- *SL- NPV*

### Biological Nematicides

- *Bacillus firmus*
- *Paecilomyces lilacinus*

### Mosquito larvicides

- *Bacillus thuringiensis var israelensis*