Larger Grain Borer (LGB) – (*Prostephanus truncatus*- Scania)

### Biology
- The eggs are white to yellow with a broad ovoid shape.
- Larva is white, fleshy with sparse hairs.
- Adult beetle is 3 - 4.5 mm long with dark brown body.
- It can fly.
- The antennae have 10 segments, made up of a 7-segment ‘stem’ and a 3-segment ‘club’.
- Females live longer (61 days) than males (45 days).
- Trade flow have effect on its speed movement.
- The life cycle under the optimum conditions of 32°C and 80% humidity takes about 27 days.

### Geographical Distribution
- Geographical Distribution.
- In Kenya it can be found in (Ahero, Bunyala, Kirinyaga, Kisumu, Kilifi, and Kwale counties), Tanzania (Morogoro, Kilimanjaro, Arusha, Mbeya, Moshi) and Uganda (Lake Koga, Buguri, butalenja and lira districts).

### Damage on rice crop
- Adults bore into rice husks, producing large quantities of grain dust as they tunnel.
- Damage on unshelled rice is greater than on loose, shelled rice.
- Makes holes on grains and tunnels through stored rice grain resulting into large quantities of dust.
- LGB will attack, both before and after harvest.
- 10-100% yield loss if not control early.

### Management Strategies
- Practice good store hygiene: cleaning the store before harvesting, removing and burning infested residues.
- Use plant extracts such as neem, pyrethrum and castor seed.
- Sort rice grain and remove those with visible pest damage.
- Using repellent plant materials (e.g. 5 – 10% of neem leaf powder).
- Dry grains well before storage.
- Use metal silos and/or hermetic bag for storage.
- Use pheromone traps to attract both species or natural enemies like *T. nigrescens*.
- Use of a predatory beetle (*Teretrius nigrescens*).

#### 2. Chemical control
- Spray store surfaces well before use by applying Pirimifosmethyl (Actellic 25 EC – 200ml/10Lt water).
- Dust rice grains by use of Actellic 1% at the rate of 50gm/90kg bag, Skana super, Spintor dust by storage or Malathion + permethrin Fenitrothion + fenvalerate (Sumicombi 1.8% - 30g/90Kg Maize) Spinsad (spintor dust – 50g/90Kg).