

Guidelines for Filling up the Proforma

Village Name : Write the name of the village as mentioned in office records

Field type : Tick the name of the field selected in the beginning as IPM or Non IPM for Fixed 1 or 2 and for random tick Random 1 or 2 as per the sequence.

Date of observation: Use the date/Month/Year format; **Crop Condition :** Tick the appropriate one as per the following guidelines

Very Good : If the plant population is full with a good plant stand and crop is healthy with maximum growth / flowering / fruiting stage. Weed free with proper agronomic practices; **Normal :** Field with optimum plant population and normal growth characters; **Poor :** Field with poor plant stand and growth conditions.

Variety : Note the variety of pigeon pea grown by the cultivator taken for observation.; Rainfed/Irrigated: Tick the appropriate word depending on the selected field

Pest Incidence : The unit of observation should be one acre field either sole cropped or inter cropped other than cotton +pigeon pea. Select 10 plants randomly from one field for observation. In each plant select three branches from middle portion of the plant located in different directions. Also collect fifty pods randomly from the whole field.

***Helicoverpa armigera* / Plume moth :** Observe for the number of larvae of *Helicoverpa armigera* and plume moth in the selected 3 branches of each plant separately

***Maruca vitrata* :** Count the number of webbed leaves + flowers and note the number per plant as the incidence of *Maruca vitrata*. No need to open the web for presence or absence of larvae.

Natural enemies (coccinellid grubs/chrysopid eggs & adults /spiders): Count only the number of coccinellid grub stage, chrysopid eggs, and spiders of any stage and species in the selected three branches of each plant.

Pod Damage : Observe the 50 pods (collected randomly from one acre plot) for any external damage / holes by any of the pest in pod borer complex and note down only the total number of pods damaged.

Pod fly : Open all the same 50 pods and observe for the presence of maggots and pupae of pod fly. Note down total number of maggots and pupae together of pod fly in 50 pods.

Pheromone trap catch : Install the pheromone trap with a six feet high bamboo stick and the pheromone trap should be placed in such a way that the lure is at a height of two feet above the crop canopy. Apply any insecticide dust slightly on the walls of polyethylene bag in the pheromone trap to ensure the death of the trapped adult and avoid repetitive trapping of the same adult. During weekly observation collect all the adults on the surface of a paper / cloth and then count them per trap / week separately.

Other Pests : If there is any other insect pest / disease is observed in a severe stage, it should be written in the comments and brought to the notice of nodal officer who in turn shall verify and report during his roving survey.

Other Activities : Note down the spray (insecticide / weedicide / fungicide, etc.) and fertilizer application, with name of the chemical and dosage during the week. Also mention whether any weeding and / or irrigation was given during the week of observation and if so the source of irrigation. Also note down any intercultural operation and methodology for the same.