**Mini Portable Pollen Collector; Efficient Tool For local Plant Breeders.**

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**Abstract**

One of the most successful method developed by humans to feed the ever growing world population is the production of higher yielding hybrid crop varieties. Hybrid crop production is a lengthy process comprised of many steps, among those steps one of the most vital step is hybridization, which is the process of crossbreeding between genetically dissimilar parents. Crossbreeding is accomplished by artificial pollination, and for that many methods have been utilized to collect the pollen from selected male plants. Many used advance methods are mostly isolated only for the leading plant breeders but for the local breeders and farmers are still depend on the paint brush method to collect pollen. This mini pollen collecting tool is specially developed to answers the issues of local plant breeders and farmers. This tool is weighs 115g. Has the ability to work on both 12 volt DC current and batteries. Housing of the tool is made from plastic. Pollens are collected by a suction air flow created by a fan (12 V, 50×50×10mm, 3500 RPM). Since the pollen particles are very small in size cotton cloth peace (2cm×2cm) is used to hold the sucked in pollen particles, which can be easily replaced to avoid pollen mixing or contamination. Additionally, several tip extension parts are available to update the tool according to the shape of the flower.

*Key words: Mini, Plant Breeding, Pollen collector, Portable, Tool*



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