

Plant Propagation

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Editorial

Plants are important biological resources utilized for several purposes like for food, fodder, fuel medicine etc. These are also valuable components for formation of biological diversity in particular ecological zones.

Plants not only showing remarkable capability to adopt in changeable environmental condition but also they are potentially capable to propagate using their seeds, developed after successful growth and development of the specific plants. The process of formation of seeds includes variation in plants such as plant maturation, flower development, pollination and fertilization etc.

After successful reproductive growth seeds are developed in plants. Seeds are showing enough variation in their size, shape, colour, weight, their dispersal modes etc. It is also termed as propagation of plants by sexual modes. Plants are also efficiently also propagating by the application of vegetative modes using stem, root, leaf cutting in support of favourable environmental conditions.

Some modified plant structures like bulb, tuber, rhizome and corm also utilized as storing of food materials by the plants and are also participating role in the process of vegetative propagation. For this purpose bud ignition is urgent need to facilitate the process of further development of root and shoot system of the plants. Growing these plant modified plant structures required better soil preparation, manuring, weeding, water supply etc. Sowing/growing these plant propagules for making success of vegetative plant propagation need to deep in soil in moderate depth with maintaining of proper moisture level and avoiding water logging around the developing plants. The plants are producing enough amounts of seeds in their life to maintain their diversity as well as presence in natural habitat.

Propagating the specific plant species using any of the above methods requires managing further to support their better growth and development.

These practices includes following steps

In initial stage of plant growth and development it can be prepared in bed nursery or in poly bag nursery.

Both the modes require following steps

- **Preparation of media:** Media is prime and best platform which give base to developing embryo or other plant propagules. It should be fertile, microbes free and porous in nature to support further the success of the developing new plantlets.
- **Sowing of seeds or other plant propagules:** Healthy, diseases free seeds should be selected and should be treated before sowing it to control pathogenic effect on developing plants.
- **Water:** Water is universal solvents and prime need for regulating their life system in living beings including plants. For successful regulation of enzymatic, hormonal and other physiological activities a moderate level of the water plays a remarkable role so it should be supplied as per need of the developing plants.
- **Light:** Proper light required to initiate embryonic growth and further differentiation of the plant propagules so it should be properly maintained.
- **Nutrient:** These are playing role in multifold directions in plant life as for plant body formation, chlorophyll formation, transport etc. in plant body so as per need of the plants micro and macro nutrients should be given to the developing plants.
- **Diseases:** It is abnormal condition in plant life marked by appearing the different symptoms. As per pathogenic attack to the plant it should be controlled following suitable and effective manner.

Following above steps better plant propagation can be done to support in enhancing their population as developing multiple individuals of specific plant varieties that support further their spreading in different sites as well as their conservation.