

Steps in Cleft-Grafting Jackfruit

Cleft grafting of jackfruit is one of the best propagation techniques for mass propagation of jackfruit to attain a true-to-type planting materials. This technology was developed at DA-RIARC, Balinsasayao, Abuyog and was proven profitable when used by nursery operators. This technology was used in the STBF Project in Brgy. Balinsasayao, Abuyog, Leyte.

Rootstock Preparation / Sexual Propagation

- Prepare soil media mixes using one part fine sand, one part compost and one part garden soil.
- Collect seeds from a fully matured jackfruit regardless of variety or accession. Select matured and well-developed seeds, plump, healthy, viable, free from mechanical damage or damaged from insect pests and diseases.
- **Washing, drying and sowing of seeds.** Wash, dry and sow jackfruit seeds in prepared seedbeds right after extraction.



- Pot media mix in polyethylene with size: 4"x6"x0.003mm
- Prick seedlings before the first leaf developed 18 days after sowing.
- Water plants regularly, apply fertilizer twice a week, spray recommended chemicals when necessary. Uproot regularly the weeds growing in the plastic bags & the alleyways.



Asexual Plant Propagation (Cleft Grafting)

- Culture scions two weeks before actual grafting operation.
- Prepare different sizes of cellophane, sharp budding knife and oil to be used for removing latex.



c. Grafting operation

- Select a healthy and vigorous jackfruit seedling. Cut-off rootstock to the desired height where there is no active growth.
- Make a longitudinal cut at the center about 1.5cm enough to accommodate the wedge cut portion of the scion.
- Select a healthy scion almost the same as the size of rootstock.
- Hold firmly the scion and make a wedge cut about 10-15 cm long on the basal section.
- Insert the wedge on the rootstock and secure firmly with a plastic tape.
- Wrap the scion with a loose wind of plastic strip.
- Seven to ten days after operation, unwrap the graft and air dry for 10 min. Wrap again the scion.



- Repeat steps 7 & 8 for two weeks.

- On the fourth week of the operation, unwrap the scion and cover it with 1"x10" ice candy wrapper.

- After the fourth week, remove the plastic cover.
- Transfer the live grafted jackfruit to an open area one week after propagation.



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PRODUCTION OF CLEFT-GRAFTED JACKFRUIT

