

## COCOA SEEDLING STANDARD



S.No.	Characters	Standards
1	Age of the seedling	5- 6 months
2	Height of seedling	45- 50 cm
3	Girth of seedling	3.5- 4 cm
4	No. of leaves	5- 6 pairs
5	Growth	Straight from the middle of the poly bag, without branching or jorquetting
6	Foliage	Green, healthy, without crinkling and nutrient deficiency, middle leaves of 15 cm length and 6 cm width
7	Root	Tap root branched with young spreading roots without netting
8	Potting mixture	2:1:1 Soil: Sand: FYM in poly bag of 6" x 9" size and 250-gauge thickness with drain holes
9	<b>Precautions:</b> <ul style="list-style-type: none"> <li>• Free from nursery diseases and pests.</li> <li>• Ball of earth in the poly bag should be wet and loose without pot bound condition.</li> <li>• Care should be taken not to break or damage the tap root.</li> <li>• Seedlings should not be kept in the nursery over ten months.</li> </ul>	

IMSCS. 2023. Cocoa (Seed Standard) (*Theobroma cacao* L.). *Indian Minimum Seed Certification Standards Part – II*, Chapter 3- Seed Certification Standards for Trees. The Central Seed Certification Board, Dept. of Agriculture & Farmers Welfare, Govt. of India, Jan 2023. p. 57-59.

## COCOA CLONE STANDARD



S.No.	Characters	Standards
1	Method	Soft wood grafting
2	Type of root stock	Bulk Forastero, Trinitario and hybrid seedlings
3	Root stock raising	Poly bag nursery
4	Size of polythene bag	6" x 9" size and 250-gauge thickness
5	Potting mixture	2: 1: 1 Soil: Sand: FYM
6	Age of root stock	4- 5 months
7	Root stock size	Height 50 cm, 3.5 cm girth with 7 pairs of leaves
8	Scion size	Thickness same as root stock, soft woods of 12- 15 cm length with 2- 3 buds, defoliated
9	Graft union	20 cm above soil, about 2 cm thickness, should be covered with polythene pouch to avoid drying
10	Grafted plant	Height 60 cm, 7 pairs of healthy leaves, stem straight without jorquetting
11	Root	Tap root with well spread young roots
12	<b>Precautions:</b> <ul style="list-style-type: none"><li>• Remove the polythene pouch after 15-20 days.</li><li>• Polythene stripe tied over graft joint should be removed after 2 months.</li><li>• Graft joint should be above ground while planting.</li><li>• Emerging shoots from root stock should be nipped off.</li><li>• Free from nursery diseases, pests, deficiencies, pot bound condition and breakage at graft joint.</li></ul>	
IMSCS. 2023. Cocoa (Clone Standard) ( <i>Theobroma cacao</i> L.). Indian Minimum Seed Certification Standards Part – II, The Central Seed Certification Board, GOI, p. 60-62.		