

**Title** Variation study on morphological characters among Chok Anan mango variety for development of superior mango clone

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### **Abstract**

Chok Anan (MA 224) is an oval-shaped mango with medium fruit size (250 - 350 g), golden-yellow skin, orangeyellow flesh, sweet taste (TSS: 14 - 16%), pleasant aroma, slightly fibrous and high yield (60 - 100 fruits per tree). The objective of this research is to evaluate, identify and select promising Chok Anan variants to obtain superior Chok Anan clones. Research was conducted on MADA, Tobiar plot which planted with Chok Anan mango at six years of age. The sources of Chok Anan planting materials were obtained from different nurseries. Based on preliminary assessment, 34 out of 2,000 accessions planted in the plot were identified as containing the required variations. The 34 accessions were further evaluated comprehensively, in terms of their fruit yield, fruit quality, plant growth and anthracnose incidence. From those data collection, 8 promising accessions were suggested to be selected as superior Chok Anan clones. Accessions CV24, CV27 and CV34 had high fruit yield, desirable fruit size, high total soluble solid (TSS) and slight tolerance to anthracnose infection. In addition, accession CV34 also showed attractive fruit skin color (yellowish green) even before ripening stage. Accessions CV09 and CV11 had high fruit yield and slight tolerance to anthracnose infection. Accession CV12 had high fruit yield, desirable fruit size and high TSS. Accessions CV22 and CV27 showed the dwarf plant height, while accession CV15 had high fruit yield and moderate fruit size.