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VSU RESEARCH QUARTERLY REPORT OF ACCOMPLISHMENT FORM

Comparative *in vitro* and *in situ* Performance of Promising Coconut Cultivars and Hybrids under Drought Condition (NCRC14-1420-17)

October 1, 2021 – December 31, 2021

1. Collection/production of seednuts and germination of LART, BAYT, ALDxBAYT, TACDxPURT

    - Continued visitation, monitoring of the breeding area, and hybridization including: inflorescence emasculation, bagging, pollen extraction, processing, and hand pollination.
    - Produced 2 F1 ALD x BAYT buttons and 21 matured nuts
    - Harvested 8 F1 ALD x BAYT matured nuts for germination as of December 2021
    - Produced 15 F1 TAC x PURT matured nuts
    - Germinated 7 TAC x PURT matured F1 nuts for field establishment as of December 2021

2. Field maintenance and monitoring
    - Due to IATF travel protocols, the varietal improvement team failed to visit the project area site in Bohol. Laborers were hired instead, to ensure the continuity of field maintenance and monitoring of growth and development of the field planted cultivars in the area. They were oriented on the proper application of fertilizers and necessary data to be gathered. Fertilizer application, monthly weeding and general observation of the field-planted hybrids and cultivars were continually done to the field-planted palms (Fig. 9).
    - To cope up with the situation, a new proposal to extend the duration of this project which will intensifies the hybridization activities and to assess the comparative growth and morphological response of local coconut cultivars to water stress *in vitro* was submitted with a revised title "Comparative in vitro and in situ performance of Promising Coconut Cultivars and Hybrids Under Drought Condition" but the proposal was not approved and was terminated last June 2021. However, hybridization activities continued despite the termination.

Submitted By:

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Recommending Approval

JEDI JOY B. MAHILUM
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Approved

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