

ACTIVITY DOCUMENT II

Submitted by the Government of Malaysia

TITLE: *In Vitro* Propagation of *Gonystylus bancanus* (Ramin) in Sarawak.

SUMMARY

The Activity aims at the establishment of effective protocols for *in vitro* propagation of *Gonystylus bancanus* via plant tissue culture techniques. The overall objective is to establish effective protocols for *in vitro* propagation of *Gonystylus bancanus* via plant tissue culture technique (micropropagation) for mass production of this species, enabling sufficient planting materials to be raised for species recovery program or ramin plantation establishment. The objectives of the Activity are (i) to establish effective protocols for the axenic (contamination-free) culture establishment of *Gonystylus bancanus* using field-grown planting materials; and (ii) to establish protocols for *in vitro* regeneration of *Gonystylus bancanus* via direct organogenesis using axenic explants. The expected outputs are (i) effective protocols for surface sterilization of field grown planting materials; (ii) effective protocol for axenic culture establishment of surface-sterilized explants of *G. bancanus*; (iii) optimum concentrations of cytokinin alone or in combination with auxin for shoot induction of axenic explants; and (iv) optimum explants for shoot induction.

EXECUTING AGENCY Ministry of Natural Resources and Environment, Malaysia

IMPLEMENTING AGENCY Sarawak Forestry Corporation and Forest Department Sarawak

DURATION 12 months

PROPOSED START DATE Upon receiving funding for the Activity