

Name	Counterpart	Title
Upik Yelianti (UNJA), Elva Gemita (PT REKI)	Z01	Inventory and conservation of indigenous orchids in the Harapan Rainforest, Jambi province

Background and Objectives

Harapan Rainforest (HRF) covers 98,554 ha of dry lowland forests of which 46,385 ha is located in Jambi Province and 52,170 ha in the province of South Sumatra. The entire site has undergone some degree of logging in the past.

Orchids are one of the indigenous species in HRF that are endangered due to increasing forest exploitation, forest fires, logging, land conversion into palm oil plantations and illegal collection and selling.

The study was conducted to firstly collect and determine the species composition and diversity of indigenous orchids in HRF. Secondly, the collected orchids will be propagated later by tissue culture and replanted in the HRF as conservation measure.

Methodology – collection and inventory

Orchids were collected using the exploration method. Each individual species was documented photographically, sampled and stored in a herbarium for identification using reference books.

Results

Fifteen species have been identified in HRF: *Bromheadia finlaysonian* (Lindl.) Miq., *Bulbophyllum flavescentes* (Bl) Lindl., *Bulbophyllum acutum* J.J.Sm., *Bulbophyllum medusae* (Lindl.) Rchb.f), *Bulbophyllum sumatranum*, *Bulbophyllum* sp1, *Bulbophyllum* sp2, *Coelogyne plantagine* Lindl., *Coelogyne furstemannii* Rchb.f., *Cymbidium bicolor* Lindl., *Cymbidium finlaysianum* Lindl., *Dendrobium leonis* (Lindl.) Rchb.f., *Eria pulchella* Lindl., *Gramatophyllum speciosum* Bl. and *Paphiodilum* sp. The majority lives as epiphytes on marapayang, kemang, bacang, kedondong, and terap. The most commonly found species are from the genus *Bulbophyllum* (see ABS report 2017).



Figure 1. The indigenous orchid *Bulbophyllum sumatranum* found at Harapan Rainforest, Jambi province.



Figure 2. The indigenous orchid *Coelogyne plantagine* found at Harapan Rainforest, Jambi province.



Figure 3. The indigenous orchid *Dendrobium leonis* (Lindl.) Rchb.f. found at Harapan Rainforest, Jambi province.