

Notes on the recollection of *Ormosia pinnata* (Leguminosae subfam. Papilionoideae)

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ओरमोसिया पिन्नाटा (लेग्यूमिनोसी उपकुल पैपिलियोनॉयडी) के पुर्नःसंग्रहण पर एक टिप्पणी

देमसाई रेंगाई, प्रभात कुमार हाजरा एवं अपराजिता दे

सारांश

ओरमोसिया पिन्नाटा (लॉर.) मेर. जाति को 105 वर्षों के बाद असम से पुर्नःसंग्रहित कर वर्णित किया गया है। इस जाति का पारिस्थितिकीय अध्ययन कर इसकी सही पहचान के लिये छायाचित्र एवं वर्णन किया गया है।

ABSTRACT

Ormosia pinnata (Lour.) Merr. is reported after a lapse of 105 years from Assam. Ecological studies have been carried out. Description and field photographs are provided to facilitate its easy identification in the field.

Keywords: Assam, Fabaceae, Karimganj, Ormosia pinnata

INTRODUCTION

While working on the phytosociological aspects of tree species in Barak valley, Assam, India, the senior author collected one species of *Ormosia* from Makunda and Badshahi Tilla forest of Karimganj district which after critical study based on literature and comparison with specimens in Assam Herbarium at Shillong was identified as *Ormosia pinnata* (Lour.) Merr. During the study, we came across just two adult individuals in the entire Barak valley, Assam. This indicates that the distribution of *O. pinnata* (Lour.) Merr. is very sparse in the region. Due to its rarity an ecological study was carried out to assess the population, habitat, associated plants growing along with the species, and other ecological aspects. A short description and field photographs are provided so that the present and future workers will be able to locate the species in other localities of North East India.

TAXONOMY

Ormosia pinnata (Lour.) Merr., Lingnan Sci. J. 14(1):12. 1935; D.S. Hong & al., in Z.Y. Wu, P.H. Raven & D.Y. Hong (Eds.), Fl. China 10:82. 2010; D. Verma & D.K. Roy, Rheedea 24(2):128. 2014; *Cynometra pinnata* Lour., Fl. Cochinch. 1:268. 1790.



Plate -1: Ormosia pinnata (Lour.) Merr. A. Adult treeB. Mature fruits C. Mature fruit on the groundD. Seedling.

Trees up to 30 m high. Leaves imparipinnate, *c*. 19 cm long; leaflets 9, opposite, elliptic-lanceolate, $7-12 \times 1.8-3.6$ cm, acute at apex, attenuate at base; lateral nerves 8-10 pairs. Pods cylindric, golden when ripe, dehiscence bilobed, $5-12 \times 3.2-3.9$ cm, 1-3 seeded; valves woody. Seeds orbicular, bright red, 2.8×1.7 cm.

Fruiting:- November-February.

Distribution:- India (Assam), China, Thailand and Vietnam.

Specimens examined:- India, Assam, Karimganj, Badshahitilla forest, 24°25′23″N and 92°21′25″E, *c*. 90 m asl, 24.11.2018, Demsai Reang 71; Near Makunda hospital, 24°25′59″N and 92°19′51″E, *c*. 69 m asl, 22.02.2019, Demsai Reang 92 (ASSAM).

Notes:- The legume genus *Ormosia* Jacks. consists *c*. 130 species and distributed in tropical America, South East Asia and North Australia (Pennington & al., 2005; Mabberley, 2018). In India, there are six species (Sanjappa,

1992; Kumar & Sane, 2003; Verma & Roy, 2014), of which two species *O. assamica* Yakovlev and *O. travancorica* Bedd. are endemic. In the ASSAM herbarium, only collections from Meghalaya, Umsaw forest, *G. K. Deka* 19562 (1940–flower buds); Cachar, *U. Kanjilal* 4721 (1914–fruits) and Baruasali, Sibsagar, *U. Kanjilal* 3481 (1914) are found. The present collection is from from new locations viz., Makunda and Badshahitilla, Karimganj district, Assam.

Druing the present study, *Ormosia pinnata* (Lour.) Merr. was collected from two different locations, viz. non-reserved forest area (near Makunda hospital) and within Badshahi Tilla reserved forest, of Karimganj district, Assam. All the ecological parameters, such as girth, tree height, canopy percentage, habitat, soil type, associated species, seedling were taken in the field (Fig. 4), the sapling population, matured fruits observed on the ground (Fig. 3), human interference, distance of the species from human habitation, number of wild animals also noted which is summarized below.

Parameter	Location 1: Badshahi Tilla forest	Location 2: near Makunda hospital
Height	<i>c</i> . 30 m	<i>c</i> . 19 m
girth	103 cm	92 cm
canopy	37 percent	29 percent
soil type	coarse loamy	coarse loamy
Associated plant species in the 5×5 m plot	Calamus sp., Ficus sp. Musa sp., Licuala peltata	Ficus benghalensis, Artocarpus heterophyllus, Syzygium sp., Aquilaria malaccensis
Total number of seedling observed	14	9
No of saplings	None	None
Number of matured fruits fallen	12	9
human interference	None	Heavy

ACKNOWLEDGEMENTS

The authors are thankful to Dr. N. Odyuo, Scientist 'D' & Head of Office, Botanical Survey of India, ERC, Shillong for facilities and Dr. Dilip Kr. Roy, Botanist, Botanical

Survey of India, ERC, Shillong for confirming the identity of the specimens.

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