Maesa membranacea (Primulaceae): an addition to the flora of India from Manipur State

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Abstract

Maesa membranacea Alphonse de Candolle is reported here as a new addition to the Flora of India. A brief description, photos and voucher specimens are provided to facilitate identification.

Résumé

Maesa membranacea Alphonse de Candolle est signalé ici comme un nouvel ajout à la flore de l'Inde. Une brève description et des illustrations sont fournies pour faciliter l’identification.

Key words: new record, North East India, Senapati district, taxonomy.
Mots clés : district de Senapati, nord-est de l'Inde, nouvel enregistrement, taxonomie.
Introduction
The genus *Maesa* Forsskål (1775: 66) comprises of about 176 species (POWO, 2019) of scrub and shrubs distributed throughout the Old World tropics (Mez, 1902). It's represented by 11 species in British India (Hooker, 1882). The family into which the genus has been placed has changed several times due to different interpretations of family boundaries within this group (Stevens, 2001; APG, 2009; Timothy & Utteridge, 2012). Traditionally, the genus had been placed in the Myrsinaceae family (as a monogeneric subfamily) (Mez, 1902), then it was separated from Myrsinaceae and put processed into the Maesaceae family (Anderberg et al., 2000) and more recently, following phylogenetic studies (APG, 2009), placed in the Primulaceae family.

During the years 2019-2021 botanical survey was undertaken extensively in State of Manipur in the northeast of India resulting in the collection of 200 taxa. Among these, an interesting species found in Senapati District of Manipur State, *Maesa membranacea* Alphonse de Candolle (1841: 80), was identified and confirmed by the data found in the reference literature (as Hooker, 1882; Haridasan & Rao, 1987; Chen & Pipoly, 1996; Kanjilal & Bor, 1997; Singh et al., 2000; 2002; Giri et al., 2008) and the consultation of herbaria (ARUN, CAL, ASSAM). This species, known until then in South Central and South Eastern China, Cambodia and Vietnam, has not been recorded in any of the Indian literature and Indian herbaria. Therefore our observations represent an addition to the Indian flora. The voucher specimens have been deposited at FRLH National Herbarium of Medicinal plants. A taxonomic description, habitat, phenology of specimens and illustrations are provided.

Taxonomic treatment

Description (Fig. 1): Small shrub, up to 3 m high; branchlets terete, flexuous. Petiole subterete or barely canaliculate, 2.5-3 cm long. Leaves broadly ovate or suborbicular, elliptic, 10-15 × 5-10 cm, thin, rounded to truncate at base,
Fig. 1: *Maesa membranacea*
A- Voucher specimen; B-Close up of inflorescence and flowers; C-Close up of twig with fruits.

margin serrate or denticulate, sometimes punctate at margins, acuminate at the apex, leathery, abaxial surface glabrous, adaxial surface glossy, glabrous, with finely gland orange punctate; lateral veins 6-10 on each side of midrib, ending in teeth, submarginal vein absent. Inflorescences axillary and terminal, paniculate, 5-7 cm long, with 4-5 ramifications, glabrous. Flowers ca. 2 mm long, white; bracteoles ovate, ca. 2 mm long, acute at
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apex, glabrous. Pedicel 0.8-15 mm long. Calyx lobes broadly ovate, ca. 1 mm long in fruit, obtuse or rounded, entire or irregularly crenulate, minutely ciliate or not, orange punctate-lineate. Corolla campanulate; lobes tubular, broadly ovate, rounded at the apex, crenulate at margins, with lines punctate with orange. Stamens 5, minute, inserted on lower part of corolla tube; filaments shorter than anthers; anthers ovoid, ca. 0.1 mm long, pale yellowish. Pistil included. Style thick, lightly lobed, unequal; stigma obscurely lobed. Drupes globose-depressed, whitish, conspicuously semi-inferior, ca. 6 mm long, orange punctate.

Flowering: February–March.


Distribution: It is considered to be native to South Central and South East China (Guangxi, Hainan and Yunnan), Cambodia and Vietnam and, with the present record, India (Senapati District of Manipur).

Specimens examined: INDIA — Manipur, Senapati district, Karale village, alt. 1659 m, 22th February 2021, N. Dhatchanamoorthy & Kreni Lokho 120570 (FRLH).

References


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