Aristolochia platanifolia (Klotz.) Duch. (Aristolochiaceae): A new record for Assam, India

S. Baruah 1*, J. Sarma 2 & S.K. Borthakur 3

1, 3 Department of Botany, Gauhati University, Guwahati – 781014, Assam, India
2 Logging Division, Tinsukia-786125, Assam, India

(Accepted November 15, 2012)

Aristolochia platanifolia (Klotz.) Duch. (Aristolochiaceae) is collected from Borjan, Padumani-Bherjan Wildlife Sanctury, Tinsukia district, Assam and is reported as new record for Assam.

Aristolochia L., is a core genus of the family Aristolochiaceae comprising of about 120 species, and is distributed in tropical and temperate Asia, Africa, Europe and America (Heywood, 1993; Mabberley, 1977). Several members of the genus have been used extensively in traditional Chinese and Indian medicines for the treatment of hypertension, leucocyte enhancement, rheumatism, eczema, snakebite, festering wounds and as analgesic and diuretic and against tumours (Kupchan and Doscoth, 1962; Bensky et al., 1993; Thirumal et al., 2012). In India, Hooker (1886) reported only 8 species and Kanjilal et al. (1934) reported 4 species from Assam. However, the proper documentation of the genus in India is yet to be accomplished.

During a recent floristic study undertaken in Tinsukia district of Assam the authors has collected some interesting specimens. After critical studies and scrutiny of literatures (Hooker, 1886) the collected specimen were identified as Aristolochia platanifolia (Klotzsch) Duch., a species hitherto not reported from Assam. However, Hooker (1886) mentioned its distribution as Eastern Himalaya, Mishmi Mountains, Khasia Mountains, Sikkim and E. Nepal. Scrutiny of literatures (Hooker, 1896; Kanjilal et al 1934, Paul et al., 2010) revealed that the species has not been reported from Assam earlier. A detail taxonomic account of the species along with distribution is provided here in the present communication. The voucher specimens are deposited in the Herbarium of Botany Department, Gauhati University (GUHB) for future reference.


A stout climber with elongated rootstock and corky fissured bark of the stem . Leaves very broad, deeply digitately 3-lobed, glabous above,tomentose beneath, lobes glaucous, pubescent tomentose or woolly beneath, base rounded-cuneate or cordate, lobes very variable, lobules few, acute or acuminate; petiole 5-12 cm., often stout and twining .Flowers axillary and solitary, also in villous cymes on the old wood, perianth tomentose or villous, mouth obtusely 6-angled, lips recurved, villous with purple papilllose hairs. Perianth yellowish with purple external veins, sac 2.5 cm. long, tube as long, golden yellow within, mouth 2.5 cm in diam. Capsule 10-15 by 2.5 cm in diam., linear-oblong with 6 ribs divided by deep furrows (Figure 1 & Figure 2).

Figure 1. A. platanifolia at natural stage.

Flowering: Oct.-Nov. ; Fruiting: March-April

Specimen examined: Borjan, Padumani-Bherjan Wildlife Sanctury, Tinsukia District, Assam, J. Sarma & S. Baruah, 120, 121 (N 27° 26’ 008”, E 95° 44’ 393”, EL about 38 m msl), Forest Department, Assam and Herbarium of Botany Department, Gauhati University (GUBH).

Distribution: India: Assam, Sikkim; Nepal, Bhutan

*Corresponding Author’s E-mail: sanjibbaruah9@gmail.com
REFERENCES


Figure 2. A. platanifolia at flowering stage.