

**TETRASTIGMA INDICUM M. MAULIK SPEC. NOV.—A NEW AND INTERESTING
VITACEAE FROM INDIA AND SIKKIM HIMALAYAS**

Tetragstigma indicum M. Maulik spec. nov.

Tetragstigma serrulato (Roxb.) Pl. offline, sed indifert foliolis parvioribus obovatis, inflorescentia brevifere, lobis stigmaticis recurvatis, baccis induratis, seminibus parvioribus pyriformibus, chalazae nodo spatulato, raphe ventraliter prominenti deffert.

Herbae scandentes dioeciae Caules et rami graciles, glabri. Cirrhi foliis oppositi, furcati, glabri. Folia pedatim S. Foliolata, foliola apicales 3.00-4.50 × 1.50-2.00 cm et foliola inferiora 2.50 × 1.75 cm, obovata, acuta basi attenuata. Petioli 2.00-4.00 mm longa. Umbelliformis cyme, penitus glabra, 2-3 chotoma, floribus 5-6 in quoque umbella. Flores unisexuales tetrameri. Calyx 0.2 × 0.5 mm, cupuliformis, persistens, glaber. Petala 2.00-2.50 × 0.7-1.00 mm, libera, elliptica, cucullata, uninervia, glabra. Stamen 1.7 mm; filamenta glabra; antherae oblongae; staminodia 4 in floribus femineis. Discus 0.7 × 0.3 mm, 4-dentatus, glaber. Gynoecium 1.20-0.5 mm, urceolatum, oblongum, glabrum; stylus obscurus; stigma 4-fidum, recurvum. Bacca 4.00-6.00 mm, globosa, indurata, laevis, breviter apiculata. Pedicellus fructifer 5.00-6.00 mm, non carnosus, gracilis. Semina 2, 5 × 4 mm, pyriformis plano convexa, fusca, rostellata, aspera, chalanzae nodus, spatulatus, raphe ventraliter prominens.

Holotypus locutus a Pant et Naithani in Kumaon, G. valley, 1500 m, in via ad Hilam, die 2.9.1969, sub numero Pant et Naithani 39564, et positus in herbario B.S.I. Allahabadensi (BSA).

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Allied to *Tetragstigma serrulatum* (Roxb.) Pl. but differing in smaller obovate leaf-lets, shorter inflorescence, stigmatic lobes recurved, berry hard, seeds smaller pyriform, chalazal knot spatulate and raphe prominent ventrally.

Scandent, dioecious, herbs; stems and branches slender, glabrous. *Tendrils* leaf-opposed, forked, glabrous. *Leaves* pedately 5-foliate, apical leaf-lets 3.00-4.50 × 1.50-2.00 cm and lower leaf 2.50 × 1.75 cm obovate, acute, base attenuate. *Petiole* 2.00-4.00 cm long, glabrous. *Stipules* 3.00 mm cordate, scarious. *Inflorescence* 2.00-4.00 mm long, umbellate cyme, totally glabrous, 2-3-chotomous, 5-6 flowers in each umbel. *Flowers* unisexual, tetramerous. *Calyx* 0.2 × 0.5 mm cupular, persistent, glabrous. *Petals* 2.00-2.50 × 0.7-1.00 mm, free, elliptic, hooded, 1-nerved, glabrous. *Stamens* 1.70 mm; filaments glabrous;

anther oblong. *Staminode* 4 in 0 flowers. *Disc* 0.7 × 0.3 mm, 4 toothed glabrous. *Gynoecium* 1.20 × 0.5 mm, pitcher-shaped, oblong, glabrous. *Style* obscure; stigma 4-fid, recurved. *Berry* 4.00-6.00 mm, globose, hard, smooth, shortly apiculate; fruiting pedicel 5.00-6.00 mm, not fleshy slender. *Seed* 2, 5 × 4 mm pyriform, plano-convex, greyish-brown, shortly beaked, rough, chalazal knot spatulate raphe prominent ventrally.

Type: Kumaon, way to Hilam—G. Valley, 1500 m, 2.9.69—Pant & Naithani 39564 (Holotype, BSA).

Distribution: SIKKIM, INDIA (Assam, West Bengal and Uttar Pradesh).

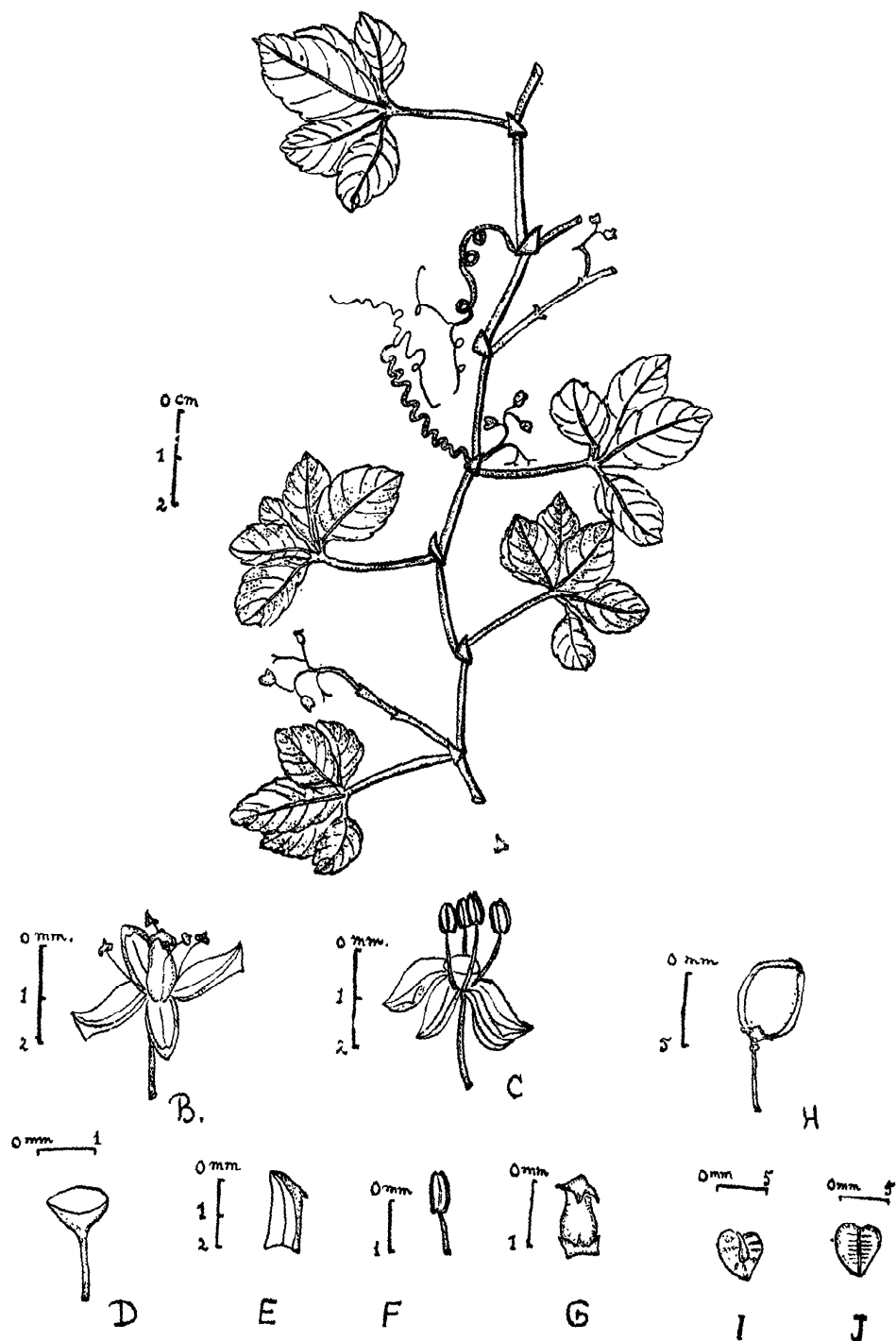
Specimens examined: INDIA: ASSAM: Cherapunji, behind the circuit house, Khasia and Jainti Hills, 27.9.56 (flower), G. Panigrahi 3459 (CAL); Jowai, Khasi and Jainti Hills, 29.10.56, G. Panigrahi 4066 (ASSAM); ibid, 23.1.57 (fruit), G. K. Deka 5046 (ASSAM); Mawmai, Khasi & Jainti Hills, 5.1.59 (fruit), G. Panigrahi 18113 (ASSAM); Jowai, 1500 m, Sept. 1892 (flower), King's collector s.n. (CAL); Joboka near Naga Hills, Jan. 1899, Prain's collector 559 (CAL). WEST BENGAL: Darjeeling, 210 m, 9.6.76 (fruit), Gamble 715A (MH); Darjeeling, Pasheting, 1950 m, 11.10.1902 (flower), J. H. Lace 2397 (CAL). UTTAR PRADESH: Kumaon, Shander, Pithoragarh, 1680 m, 9.11.65 (fruit), C. M. Arora 36420 (MH); without particular locality, 750 m, 13.1.82 (fruit), H. Collett 86 (CAL); Mussoorie, Aug. 1897 (flower), P. W. Mackinnon s.n. (CAL); Simla, Sine Coll. 354 (CAL); Kumaon; Tejam, Jacola valley, 1.8.1900 (flower), Inayat 24300 (CAL); without particular locality, Mackinnon s.n. (CAL). SIKKIM: Sonada-Mungho Rd., 2100 m, 21.8.14 (flower), H. G. Carter 40693 (CAL); without particular localities, G. King s.n. (CAL).

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M. MAULIK

Botanical Survey of India, Howrah



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A. Habit. B. Female Flower. C. Male Flower. D. Calyx. E. Petal. F. Stamen. G. Gynoeceum. H. Fruit. I. Seed (dorsal view). J. Seed (ventral view).