

**DIAMESA EDENTISTYLA, A NEW SPECIES OF DIAMESINAE  
FROM INDIA (DIPTERA : CHIRONOMIDAE)**

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The present paper is the second account on Indian species of *Diamesa* Walsl. of the subfamily diamesinae, the first being that of Chaudhuri and Ghosh (1981). This part deals with the description of one new species based on the adults collected during the faunistic survey of Indian chironomids at Darjeeling and its adjoining areas of West Bengal. With this, the representatives of the genus are accorded seven in India and nine from the oriental region.

The descriptions and terminology presented here follow Saether (1980) and Chaudhuri and Ghosh (1981).

The types are retained with the authors for final disposal to the National Zoological Collections at the Zoological Survey of India, Calcutta.

***Diamesa edentistyla* sp. nov.**

*Male* : Body length 4.78 mm., wing length 2.1 mm. and wing breadth 1.20 mm.

*Head* : Dark brown in colour. Vertex with 18-19 setae on each side. Eyes pubescent, spherical without dorsal extension. Maxillary palp brown, palpomere III with a preapical sensory pit, palpomere bearing 5 apical setae length ratio of palpomeres I-V 9:25:46:55:74, L/W 2.27. Antenna brown, length ratio of flagellomeres I-XIII 8:7:10:10:10:11:10:12:12:15:15:210, AR 1.55. Pedicel ratio 1.8.

*Thorax* : Anteprenotum collar like with 7 anteprenotals. Acrostichals 1-2 dorsocentrals 6-7 and prealars 3-4. Scutellum dark with several scattered setae, postscutellum dark brown.

*Wing* (fig. 1). Smoky with distinct veins. Brachiolum with 2 setae and 7 sensilla campaniformia ; R with 19, R<sub>1</sub>, 10 and R<sub>4+5</sub> with 4 setae. Costa extended a little, extension being 0.075 mm. long ; R<sub>2+3</sub> meets C at a distance of 0.21 mm. away from R<sub>1</sub> ; r-m dark, m long and little bent ; m-cu faint and interrupted at the middle and short ; ratio of the distance between m-cu and r-m to f-cu and m-cu 1.75 ; Cu<sub>2</sub> bent at the apex. Sensilla campaniformia at the base of R<sub>2+3</sub> and on r-m. Squama completely fringed with 24-25 setae. Anal lobe rounded. Haltere pale. CR 0.96, VR 0.93.

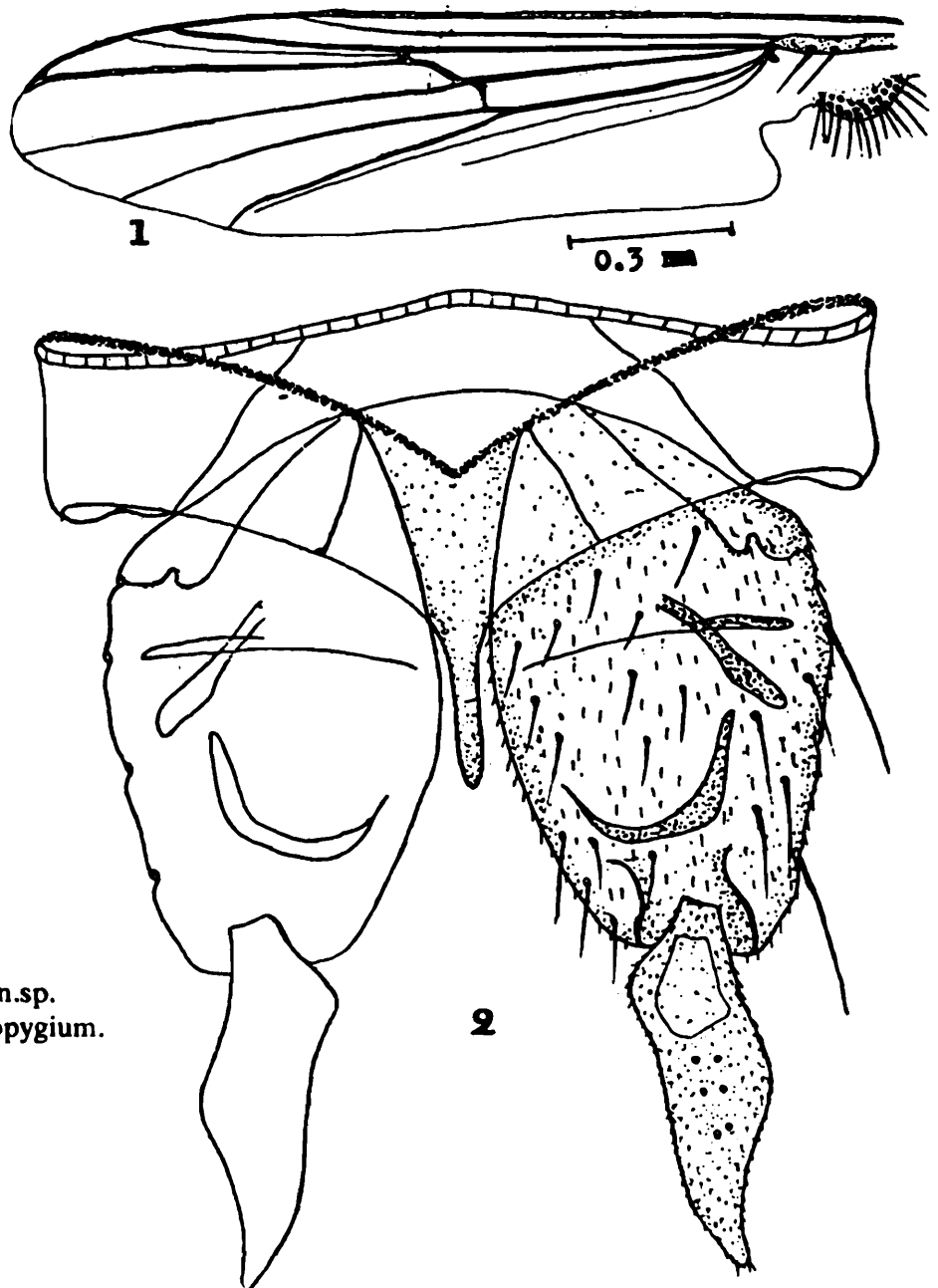
*Legs* : Dark brown in colour. Spur of fore tibia 0.057 mm. long, ratio of length of spur to the apical diameter of fore tibia 19:17 ; spur of mid tibia 0.081 mm. long,

ratio of length of spur to the apical diameter of mid tibia 27:20 ; spurs of hind tibia 0.078 and 0.036 mm. long, ratio of length of spurs to the apical diameter of hind tibia 26:24 and 12:24. Hind tibial comb with 13 setae. Tarsomeres of all legs broken.

**Abdomen :** Tergites brown. Tergum I with numerous setae. Hypopygium (fig. 2) with moderate tubular anal point. Gonocoxite robust with numerous strong long setae ; gonostylus stout with few punctures and narrowed towards apicad without tooth but with an apical seta. Transverse sternapodeme 0.15 mm. long, lateral sternapodeme 0.04 mm. long and phallapodeme 0.045 mm. long. HR 1.22, HV 2.85.

**Holotype** ♂ (Type no. 148, B.U. Ent.), India, West Bengal, Darjeeling, 6. iv. 1984, coll. Dr. D.K. Guha. Paratype ♂ , data same as holotype.

**Remarks :** In view of absence of tooth at the apex of gonostylus the species is named as *Diamesa edentistyla*. *Diamesa edentistyla* sp. nov is closely related to *D. bicornipes* Chaudhuri and Ghosh (1981), *D. loffleri* Reiss (1968) and *D. banana* Saether (1969) differing in gonostylus, squama and thoracic chaetotoxy. But its identity as a new member of the genus *Diamesa* can be established by the following



Figs. : *Diamesa edentistyla* n.sp.  
(1) wing and (2) hypopygium.

combination of characters ; (i) Anteprenotals 7 (ii) scutellum dark with several scattered setae (iii) squama with 24-25 setae and (iv) absence of tooth at the apex of gonostylus.

### SUMMARY

A new species in Diamesinae, *Diamesa edentistyla* is described and illustrated from Darjeeling, India.

### ACKNOWLEDGEMENT

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