

# **A new species of the genus *Dalpada* Amyot & Serville (Heteroptera : Pentatomidae) from India**

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Objektyp: **Article**

Zeitschrift: **Mitteilungen der Schweizerischen Entomologischen Gesellschaft = Bulletin de la Société Entomologique Suisse = Journal of the Swiss Entomological Society**

Band (Jahr): **56 (1983)**

Heft 1-2

PDF erstellt am: **23.09.2024**

Persistenter Link: <https://doi.org/10.5169/seals-402075>

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## A new species of the genus *Dalpada* Amyot & Serville (Heteroptera: Pentatomidae) from India

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Genus *Dalpada* AMYOT & SERVILLE discussed and redefined. *D. mcdonaldii* sp. n. is described and illustrated.

### Genus *Dalpada* AMYOT & SERVILLE

*Dalpada* AMYOT & SERVILLE, 1843: 105.

Type-species: *Dalpada aspersa* AMYOT & SERVILLE.

The genus *Dalpada* was first proposed by AMYOT & SERVILLE (1843) with *Dalpada aspersa* as type-species. DISTANT (1902) reported eleven species from India and arranged them under two groups on the basis of dilated and undilated condition of fore tibiae. He later reported two more species from India (DISTANT, 1918). GHOURI (1975a) shifted the species *Dalpada melania* DISTANT and *Dalpada annandalei* DISTANT to the genus *Paranevisanus* DISTANT. In another paper (1975b), he proposed the genus *Jugalpada* for an Indian species, *Dalpada varia* DALLAS.

The genus *Dalpada* is characterised as follows:

Head long and gradually narrowing apically, lateral margins with preapical tooth; rostrum extending up to second abdominal segment; bucculae about as long as first rostral segment, anteroventral angles acutely produced; antennae 5-segmented, first segment not reaching apex of head; pronotum with antero-lateral margins slightly sinuate and dentate, humeral angles well developed and recurved upward; mesosternum with a longitudinal carina medially; metasternal scent gland ostiole with peritreme moderately long and raised apically, not reaching outer margin of evaporatoria; membrane of hemelytra with arborescent dark markings; tibiae normal sometimes dilated; abdominal venter basally slightly depressed and unarmed; last tergum in female (fig. D) with anterior and posterior margins convex. Female genitalia: external plates (fig. C), first gonocoxae subquadrate, regularly and gently convex, paratergites 8th triangular, 9th oblong and reaching beyond apex of adomen; spermatheca (fig. E), bulb rounded with tubular outgrowths. Male genitalia: claspers (fig. H) widened distally; pseudoclaspers (fig. I) setose and broadly truncated apically; subgenital plate (fig. F) of uniform width, anterior margin much convex with prolongation medially, posterior margin deeply concave.

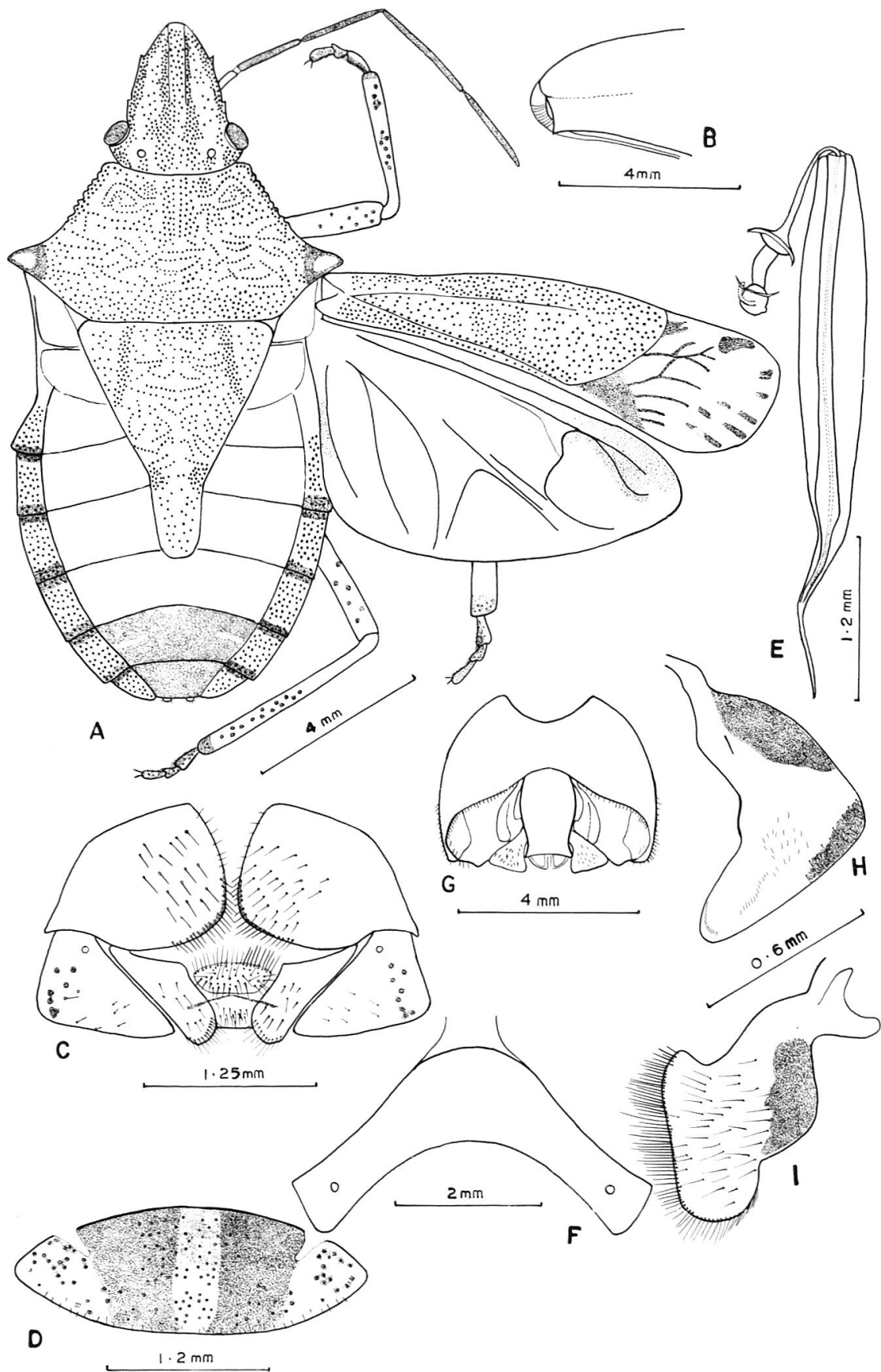


Fig. 1: *Dalpada mcdonaldi* sp. n., A-E ♀, F-I ♂; (A) Entire body in dorsal view, ♀; (B) Anteroventral angles of bucculae, ♀; (C) External genitalia, ♀; (D) Last abdominal tergum, ♀; (E) Spermatheca, ♀; (F) Subgenital plate, ♂; (G) Pygophore, ♂; (H) Clasper, ♂; (I) Pseudoclasper, ♂.

*Dalpada mcdonaldi* sp. n.

Female (Fig. 1. A-E).

*Head.* - Yellow except puncts which are dark; slightly longer than wide and narrowing apically; lateral margins with two dents; eyes reddish brown, ocelli red; space between ocellus and inner orbital margin about one-third the inter-ocellar space. Rostrum yellowish brown except apical segment dark; segments I, II, III and IV, 2, 2.9, 2.6 and 1.9 mm in length respectively. Antennae dark brown; segments I, II, III, IV and V, 0.76, 1.7, 1.9, 2.6 and 2.0 mm in length respectively.

*Thorax.* - Yellowish except puncts which are dark; dorsum thickly and venter sparsely punctate; pronotum with anterior margin deeply concave, maximum width of pronotum more than twice its median length; scutellum gradually narrowing apically, slightly longer than wide; corium of hemelytra with a reddish patch ventrally. Legs yellowish with dark patches.

*Abdomen.* - Yellowish except transverse patches on connexiva and apical two tergites which are dark; distinctly longer than wide; connexiva and lateral margins of venter with dark puncts. Female genitalia as in generic description and as shown in figures.

Body length: 14.5 mm.

Male (Fig. 1. F-I).

Resembles female. Genitalia as in generic description and as shown in figures.

Body length: 13.5 mm.

*Holotype* ♀. India: Tamil Nadu, Coimbatore, Forest Research Institute, on *Ceiba pentandra* (LINN.), 27.III.1979 (M. NAYYAR AZIM).

*Paratypes.* 3 ♀, 2 ♂, same data as holotype.

The new species is closely related to *Dalpada jugatoria* LETHIERRY, but the two species are separated by the following key characters.

1. Head with juga distinctly longer than tylus; antennal segments 1-3 ochraceous, segment third slightly shorter than second and fourth separately; lateral margins of thorax and abdomen ventrally shining metallic green; rostrum slightly passing hind coxae. *Dalpada jugatoria* LETHIERRY
- Head with juga shorter than tylus; antennal segments 1-3 brownish, segments third slightly longer than second and distinctly shorter than fourth; lateral margins of thorax and abdomen ventrally whitish yellow; rostrum reaching up to second abdominal segment. *Dalpada mcdonaldi* sp. n.

The species is named for Dr. F. J. D. McDONALD, Department of plant Pathology and Agricultural Entomology, University of Sydney, Australia, in recognition of his contributions to our knowledge of taxonomy and biology of Pentatomidae.

#### ACKNOWLEDGEMENTS

The authors are deeply indebted to Prof. NAWAB H. KHAN, Head, Department of Zoology, Aligarh Muslim University, Aligarh, for providing research facilities. Thanks are also due to Prof. S. MASHHOOD ALAM, for encouragements. One of us (M. N. A.) is thankful to U. G. C., New Delhi for financial help during the tenure of this work.

## LITERATURE

- AMYOT, C. J. B. & SERVILLE, A. 1843. *Histoire Naturelle des Insectes. Hemipteres* (Roret, Paris).
- DISTANT, W. L. 1902. *The fauna of British India including Ceylon and Burma. Rhynchota-Vol. 1* (London, Taylor & Francis).
- DISTANT, W. L. 1918. *The fauna of British India including Ceylon and Burma. Rhynchota-Vol. 7.* (London, Taylor & Francis).
- GHAURI, M. S. K. 1975a. *Revision of the Himalayan genus Paranevisanus* DISTANT (Halyini, Pentatominae, Pentatomidae, Heteroptera). *Zool. Anz. Jena* 195: 407-416.
- GHAURI, M. S. K. 1975b. *Jugalpada a new genus of Halyini (Pentatomidae, Heteroptera)*. *J. nat. Hist.* 9: 629-632.

(received February 28, 1983)