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ON THE BIOLOGY OF DER/SP/A MAYAE CHATTERJI, SARUP & MENON (Tenebrionidae : Coleoptera)

Derispia mayae is the only species present in India representing the genus Derispia. The members of this genus have striking resemblance to lady bird beetles. D. mayae is distributed in regions like Kodaikanal and Kerala (Chatterji et al 1960) frequenting situations where moss and alage grow. Though a commonly occurring insect nothing is known about its biology. Studies were hence uedertaken on it, results of which are presented in this paper.

Eggs are laid in batches of 8 to 34 (average 24) among growths of moss and algae. The egg (Fig. 1) is smooth, orange-yellow coloured nd elongate oval measuring 0.9 mm in length and 0.6 mm in width; it is laid upright. Eggs hatch in 5 days.

The first instar larva is smooth orange-yellow and oval measuring 0.8 x 0.6 mm; it turns brownish black generally. It does not feed and moults to the second instar grub in one day. The larva undergoes five instars, the 1st to 5th instar lasting 1, 4–6, 2-3, 2-4 and 4-8 days respectively. It has the same body form throughout which is inflated and oval; it has a shining appearance. The colour soon after moulting is yellow which ultimately turns to black; excepting in the full grown larva. The head is hyponathous. The dorsal part of the prothorax and 4th and 5th abdominal segments of full grown larva is yellowish and the rest of the body black (Fig. 2). Total larval duration takes from 17 to 20 days.

Pupa is exarate measuring 2.5 x 1.9 mm., brownish and oval with a thin membraneous sheath endorsing the appendages (Fig. 3). The pupa is attached to the substratum at its posterior and pupal period lasts for 3-5 days.

Adults and grubs of D. *mayae* are frequently observed in colonies infesting growths of moss and algae on tiles, wooden structures and terraces of buildings and on compound walls. They are more abundant during rainy seasons, Sluggish in their habits, they feed on mosses and fungi,

REFERENCES

Chatterji, S, Sarup P., Randas Menon, M. G., (1960). Taxonomic Studies on Indian Tenebrionidae (Coleoptera), I - A New species of Derispia Lewis, Indian J. Ent. 23, 241-243.

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AN — Antenna	O — Ocelli	HD — Head
EL — Elytron	MD — Mandible	MAXP — Maxillary palp
HW — Hind wing	PN — Pronotum	C — Compound eye
LA — Labrum	TA — Tarsi	RP — Rectal plate