

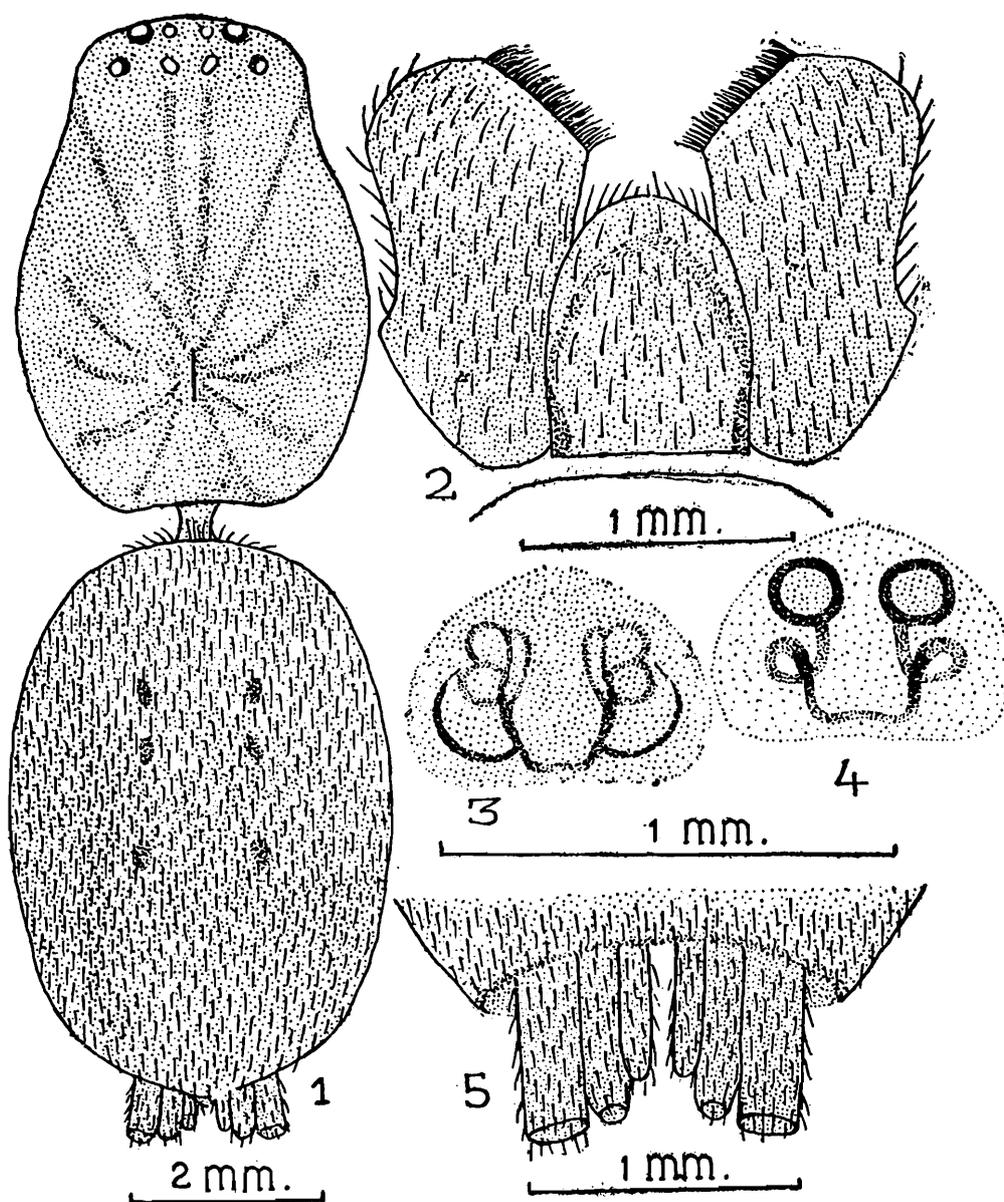
ON TWO NEW SPECIES OF *HAPLODRASSUS* SPIDERS FROM INDIA
(ARANEAE : GNAPHOSIDAE)

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1. *Haplodrassus viveki* sp. nov.

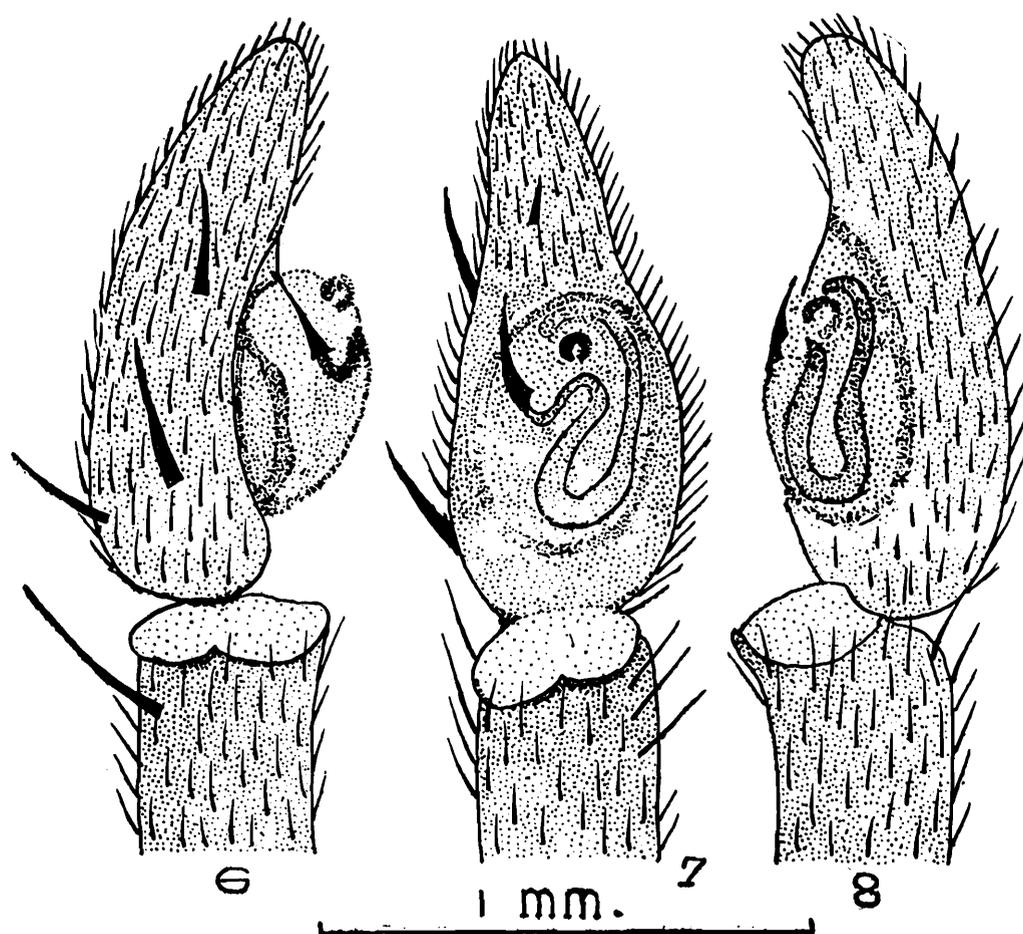
General : Cephalothorax and legs reddish-green ; abdomen brown. Total length 12.00 mm. Carapace 5.30 mm. long, 3.90 mm. wide, abdomen 6.40 mm. long, 4.00 mm. wide.



Figs. 1-5. *Haplodrassus viveki* sp. nov.

1. Dorsal view of female, legs omitted. 2. Labium and maxillae. 3. Epigyne. 4. Spermathecae. 5. Spinnerets.

Cephalothorax : Longer than wide, broad in front, clothed with pubescence, provided with a conspicuous fovea at posterior middle with radiating streaks diverging from fovea to the sides. Eyes pearly white except anterior medians ; posterior row of eyes longer than anterior row ; anterior row slightly procurved (as seen from in front),



Figs. 6-8. *Haplodrassus viveki* sp. nov.

6. Left male palp, retrolateral view. 7. Left male palp, ventral view. 8. Left male palp, prolateral view.

with medians slightly smaller than laterals and closer to adjacent laterals than to each other ; posterior row slightly procurved, with medians oblique, larger than laterals and closer to each other than to adjacent laterals. Chelicerae moderately strong ; inner margin provided with two small teeth and outer margin with three teeth. Sternum heart-shaped, pointed behind, clothed with fine hairs. Maxillae and labium reddish-brown, with shape as in Fig. 2. Legs relatively long and strong, clothed with hairs and spines ; metatarsi and tarsi I and II provided ventrally with conspicuous scopulae, and tarsi with prominent claw tufts ; leg formula 4123. Colour and size of male almost like female, male palp as in fig. 6, 7, 8.

Abdomen : Longer than wide, nearly elliptical, clothed with thick hairs and provided with three pairs of segilla as in fig. 1. ventral side same in colour as dorsal,

Epigyne as in fig. 3. Spermathecae as in fig. 4. Spinnerets prominent; anterior spinnerets cylindrical and longer than others as in fig. 5.

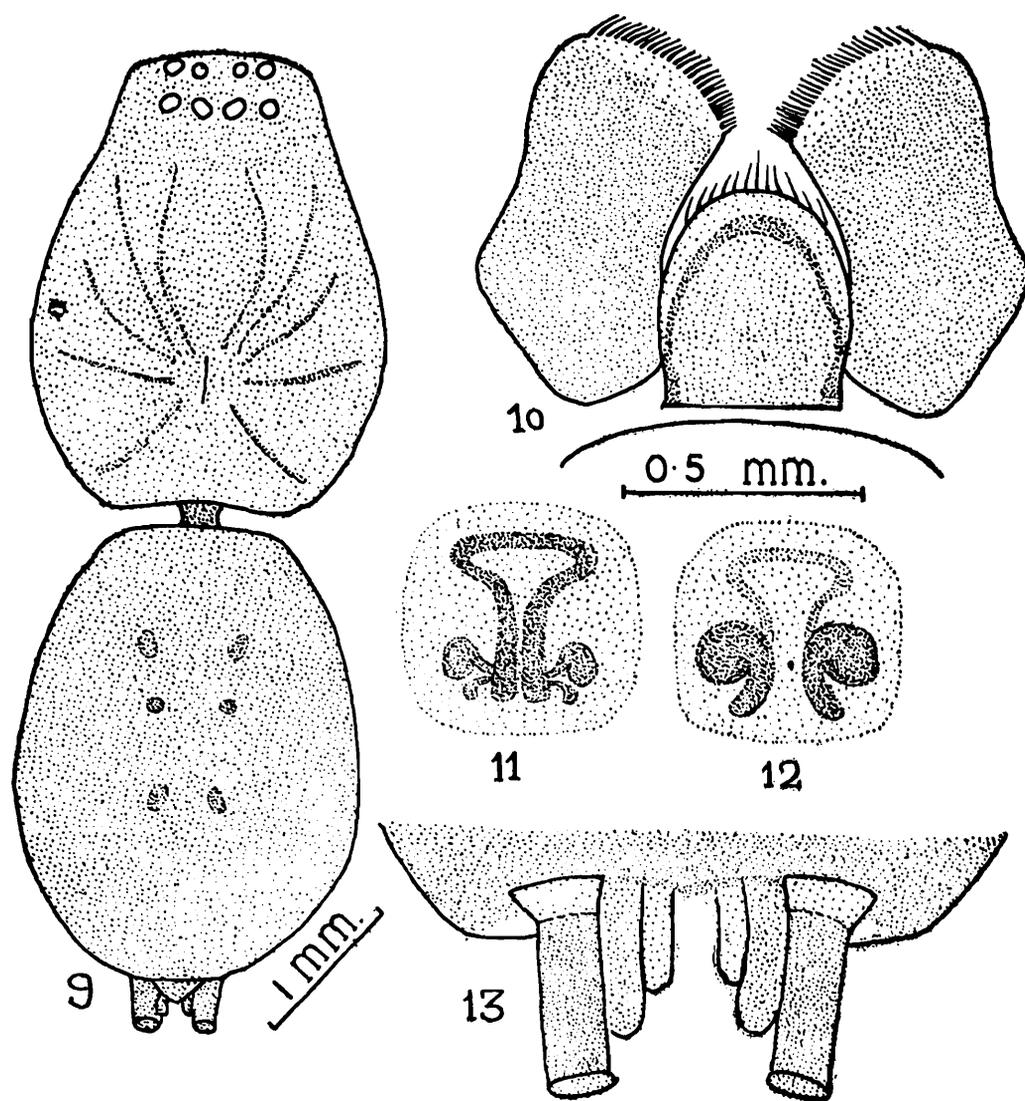
Holotype : Female (Reg No 5126/18), *paratype* two females (Reg. No. 5127/18), *allotype* one male (Reg. No. 5128/18) in spirit.

Type-locality : INDIA : Uttar Pradesh; Daryakhals Landsdown, Dist. Pauri Garhwal, date 7. III. 1956. Coll. T. D. Soota.

This species closely resembles *Haplodrassus sataraensis* Tikader and Gajbe but differs from it as follows : (i) Abdomen with three pairs of sigilla but in *H. sataraensis* abdomen provided with chalk-white cheverons. (ii) Spermathecae rounded and spermathecal ducts coiled, cymbium more elongated and spiny, embolus pointed.

2. *Haplodrassus jacobi* sp. nov.

General : Cephalothorax and legs red; abdomen light brownish green. Total



Figs. 9-13. *Haplodrassus jacobi* sp. nov.

9. Dorsal view of female, legs omitted. 10. Labium and maxillae. 11. Epigyne. 12. Spermathecae. 13. Spinnerets.

length 6.00 mm. Carapace 2.80 mm. long, 2.00 mm. wide ; abdomen 3.00 mm. long, 2.00 mm wide.

Cephalothorax : Longer than wide, broad in front, clothed with pubescence, provided with a inconspicuous fovea at posterior middle and with radiating stripes diverging from fovea to sides ; cephalic region slightly high. Eyes pearly white except anterior medians ; posterior row of eyes slightly longer than anterior row ; anterior row slightly procurved (as seen from in front), with medians slightly smaller than laterals and closer to laterals than to each other ; posterior row of eyes procurved with medians oblique, larger than laterals and closer to each other than to adjacent laterals. Chelicerae moderately strong ; inner margin with two similar teeth and outer margin with three dissimilar teeth. Sternum heart-shaped, pointed behind, clothed with fine hairs. Maxillae and labium light-reddish brown, with shape as in fig. 10. Legs relatively long and strong, clothed with hairs and spines ; metatarsi and tarsi I and II provided ventrally with conspicuous scopulae, and tarsi with prominent claw tufts ; leg formula 4123.

Abdomen : Longer than wide, narrowing anteriorly, broadest just behind middle, covered with pubescence and some hairs, uniform, provided with three pairs of sigilla as in fig. 9 ; ventral side same in colour as dorsal. Epigyne as in fig. 11. Spermathecae as in fig. 12. Spinnerets prominent ; anterior spinnerets cylindrical and longer than other as in fig. 13.

Holotype : Female (Reg No 5129/18) *paratype* one female (Reg. No. 5130/18) in spirit.

Type-locality : INDIA ; Meghalaya, Jamduar, Dist. Golpara. date 19. III. 1957. coll B. K. Tikader, *Paratype*, INDIA, M. P., Kalypatha Dist. Betul. date 3.XI.1971.coll. V. D. Srivastava.

This species closely resembles *Haplodrassus tehriensis* Tikader and Gajbe but differs from it as follows : (i) Cephalothorax without marking but in *H. tehriensis* cephalothorax with W-shaped deep brown markings. (ii) Abdomen uniform with three pairs of sigilla but in *H. tehriensis* abdomen provided with brownish patches. (iii) Epigynum suture elongate and spermathecae coiled.

SUMMARY

The present paper deals with two new species of *Haplodrassus* (*viveki* and *jacobi*) from India.

The genus *Haplodrassus* was established by Chamberlin (1922) with *H. hiemalis* (Emerton) as type. Since then Tikader and Gajbe (1977) described two new species. Tikader (1982) described two more species and Gajbe (1987) described one species from India.

While studying the spiders of the family Gnaphosidae the author encountered two new species of *Haplodrassus* which are described here as new to science.

The type specimens are deposited in the National Zoological Collection, Zoological Survey of India, Calcutta.

ACKNOWLEDGEMENTS

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