

Contribution to our Knowledge of Ascomycetes of India — XV.

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(With 4 Figs)

In earlier papers (1960—1966) 48 ascomycetes have been described, the present paper constitutes the fifteenth in the series, in which are presented 1) *Bovilla indica* sp. nov. on *Paracaryum coelastinum* Benth. 2) *Metasphaeria parcaria* sp. nov. on *Paracaryum coelastinum* Benth. 3) *Calospora gardinia* sp. nov. on *Gardinia lucida* Roxb. 4) *Acanthostigma maesae* sp. nov. on *Maesa indica* Wall.

49. *Bovilla indica* sp. nov.

Perithecia superficialia, brunnea vel atra, globosa, ostiolata, 225—300 × 150—200 μ ; asci utrinque attenuati, breviter stipitati, crasse tunicati, paraphysati, 8-spore, 67—82 × 7.5—12 μ ; sporae biseriatae, anguste fusiformes, utrinque paulatim attenuatae et acuminatae, hyalinae, multiseptatae, 26—42 × 3—3.8 μ .

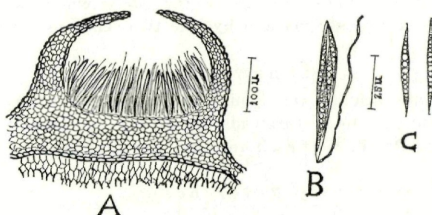


Fig. 1. *Bovilla indica*.

Perithecia separate, superficial, brown to black, globoid, ostiolate 225—300 × 150—200 μ . Asci pointed at both the ends, hyaline, paraphysate, shortly pedicellate, bitunicate 67—82 × 7.5—12 μ . Ascospores 8, hyaline, biseriate, transversely multiseptate, long and pointed at both the ends 26—42 × 3—3.8 μ .

Collected on the stem of *Paracaryum coelastinum* Benth. in the month of November 1966. Mahabaleswar. Leg. Srinivasulu and deposited in the herbarium of Marathwada University under number MUH. 204 (Tilak Type).

The genus *Bovilla* was established by Saccardo (1883) with *B. capromi* as type species. Besides being new species the genus is an addition to the generic list of India.

50. *Metasphaeria parcaryi* sp. nov.

Perithecia superficialia, atra, dense gregaria, ostiolata 220—280 $\times$ 90—180 μ ; asci, cylindracei, breviter stipitati, crasse tunicati, paraphysati, 8-spори, 30—40 $\times$ 2—2.5 μ ; sporae uni- vel biseriatae, ellipsoideae vel fusiformes, rectae vel parum curvulae, multiseptatae, 12—15 $\times$ 1.6—2 μ .

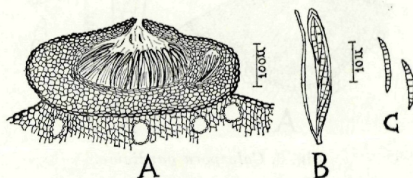


Fig. 2. *Metasphaeria parcaryi*.

Perithecia superficial, black, forming crusts on the stem, ostiolate 220—280 $\times$ 90—180 μ . Asci cylindrical, hyaline, paraphysate, shortly pedicellate, bitunicate 30—40 $\times$ 2.2—5 μ . Ascospores 8, uni- or biseriatae, usually overlapping, elliptic, fusiform, straight or slightly curved, transversely multiseptatae, 12—15 $\times$ 1.6—2 μ .

Collected on the stem of *Parcaryum coelastinum* Benth. in the month of November 1966, Mahabaleswar. Leg. Srinivasulu and deposited in the herbarium of Marathwada University under number MUH. 205 (Tilak Type).

With addition of this species, the total no. of species from India is three.

51. *Calospora gardiniaie* sp. nov.

Perithecia stromati immersa subglobosa, ostiolis 150—180 μ longis erumpentia, 200—240 $\times$ 180—225 μ , pariete distincto praedita; asci numerosi, stipitati, paraphysati, 8-spори, 75—85 $\times$ 12—15 μ ; sporae fusioideae, biseriatae, hyalinae vel pallide luteolae, 3—4-septatae, ad septa plus minusve constrictae, 19—29 $\times$ 5.5—6.6 μ .

Perithecia subgloboid with long neck, 150—180 μ projecting out of the bark, ostiolate, embedded in stroma and measuring from 200—240 $\times$ 180—225 μ , separated from stroma by a distinct wall of its own. Asci numerous, stipitate, bitunicate, paraphysate, 8 spored, 75—85 $\times$ 12—15 μ . Ascospores fusoid, biseriatae, hyaline to slightly yellow in colour, 3—4 septate with constrictions at the septa 19—23 $\times$ 5.5—6.6 μ .

Collected on the stem of *Gardinia lucida* Roxb. in the month of November 1966. Mahabaleswar. Leg. Srinivasulu, and deposited in the herbarium of Marathwada University under number MUH. 206 (Tilak Type).

With the addition of this species the total number of species from India is four.

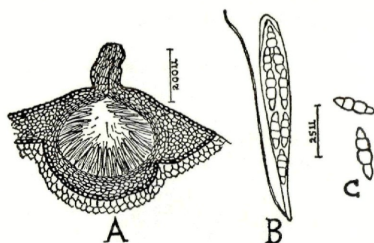


Fig. 3. *Calospora gardinia*.

52. *Acanthostigma maesae* sp. nov.

Perithecia superficialia, globosa, atra, ostiolata, $80 \times 100 \mu$; asci cylindranei, breviter stipitati, tenuiter tunicati, $28-42 \times 4-4.8 \mu$, paraphysati, 8-spore; sporae biseriatae, ellipsoideae, 3-septatae, medio constrictae, hyalinae, $8-9.5 \times 2-2.4 \mu$.

Perithecia superficial, globose, black, ostiolate $80 \times 100 \mu$. Asci cylindrical with a short stalk, hyaline, unitunicate, $28-42 \times 4-4.8 \mu$, paraphysate. Ascospores 8, ellipsoid, biseriate, constricted at middle septum, 3 septate and hyaline $8-9.5 \times 2-2.4 \mu$.

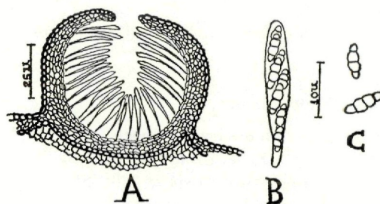


Fig. 4. *Acanthostigma maesae*.

Collected on the stem of *Maesa indica* Wall. in the month of November 1966. Leg. Srinivasulu and deposited in the herbarium of Marathwada University under number MUH. 207 (Tilak Type).

With the addition of this species the total number of species from India is three.

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References.

- Rama chandra Rao. 1966. Fungi on *Codiaeume variegatum* Blume. Mycopath. et Mycol. appl.
- Tilak, S. T. & S. B. Kale, 1964. Second contribution to our knowledge of Indian Ascomycetes. Mycopath. et Mycol. appl. XXVII: 60—64.
- Tilak, S. T. 1966. Contributions to our knowledge of Ascomycetes of India. III. Mycopath. et Mycol. appl. XXVIII: 82—85.
— 1966. ibdem IV ibid. XXVIII: 86—90.
- Tilak, S. T. & Ramachandra Rao. 1966. ibdem V ibid. XXVIII: 90—94.
- Tilak, S. T. 1966, ibdem VI.—XIII. l. c. in press.
- Tilak, S. T. & S. B. Kale. 1966. Ascomycetes on *Asterocantha longifolia*. Neel Mycopath. et Mycol. appl.
- Tilak, S. T. & T. S. Viswanathan. 1960. Additions to the Fungi of Bombay. Mycopath. et Mycol. appl. XIII: 100—106.
- Vishwanathan, T. S. & S. T. Tilak. 1960. Additions to our knowledge of Ascomycetes of India. ibdem. XIII: 237—242.

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