

STUDIES ON MUSHROOMS OF BIRBHUN DISTRICT, WEST BENGAL

Uptil now there is no scientific report on this topic from Birbhum district. It has been decided to publish all the available informations about the fungi growing in this region. This is the first report in the series.

ENUMERATION OF THE SPECIES

Phaeomarasmius erinaceus (Fr.) Kuhn.

Sporophore Umbonate, diameter-15-20 mm, yellowish brown to rusty tawny, brittle at fresh, pliable on drying, squamulose, concolorous with the pileus. *Lamellae* Free crowded, brittle, yellowish brown. *Stipe* Centric, concolorous with the pileus, minutely squamulose, hollow, both volva & annulus absent. *Context* Thin, composed of loosely arranged filamentous hyphae. All hyphae, with clamp connections. *Hymenophoral trama* Regular, thin walled, Homiomorous, sub-hymenium well developed. *Basidium* Clavate, 27.75μ — 29.60μ (28.49) $\times$ 5.55μ — 7.40μ (6.66), C—4.2 *Spore* Elliptic in shape, glabrous, rusty brown colour in mass. 7.40μ — 9.25μ (7.77) $\times$ 3.70μ — 5.56μ (4.7), Q. 1.6. *Cheilocystidia* Thin walled, hyaline, smooth, heteromorphous 12.95μ — 29.60μ $\times$ 7.50μ — 11.10μ .

Porphyrellus malaccensis (Fat & Baker) Singer

Sporophore Umbilicate, 90—60 mm diam., greyish to cream colour, to yellowish brown with age, Fleshy, glabrous, viscid, *Hymenophore* tubulose, lumen of the tube variable in size, tubes with larger lumen present near the stipe & tubes with smaller lumen present near the margin, cream yellowish brown or sometimes with orange to red tinge.. *Stipe* Eccentric, 40—50 mm $\times$ 3—5 mm smooth, concolorous with the tubes, yellowish to pinkish, longitudinal ridges present along the length of stipe (slightly alveolate). *Context* Concolorous with the pileus, composed of loosely arranged hyphae. *Spore* Elliptic, smooth 9.25μ — 11.10μ (10.30) $\times$ 3.70μ — 5.5μ (4.31), Q—2.3. *Basidia* Clavate, tetra-sterigmatic. 24.05μ — 25.90μ (24.35) $\times$ 55.55μ — 7.40μ (6.47), Q—3.7. *Cystidia* Thin walled, hyaline. 74.00μ — 85.10μ (80.66) $\times$ 7.40μ — 11.10μ (9.62), Q—8.3.

Boletellus obscurecoccineus V. Hohn.

Sporophore Convex to flat 40-50 mm. diam. reddish brown to brownish vinaceous at young condition, becomes olivaceous with age. *Hymenophore* tubulose, hymenophoral tubes yellowish, becomes deep olivaceous grey at

maturity & on drying, glabrous, length of the tubes 4-5 mm. In between the tubes this walled hyphae loosely arranged. *Stipe* Centric, glabrous, solid, olivaceous black, 32-60 mm. x 4-6 mm. Both volva & annulus absent. *Context* 1.5 mm.—2.5 mm. thick, yellowish, composed of loosely arranged hyphae, thin walled, septate, Homoiomerous, diameter of the hyphae— 5.55μ — 7.40μ . *Spore* clay pink to deep brownish colour in mass, non-amyloid, Elliptic, smooth, 7.40μ — 9.25μ (8.32) x 3.70μ , Q—2.2. *Basidia* Clavate, Bisterigmatic, 22.20μ — 25.90μ (23.33) x 3.70μ — 7.40μ (5.55), Q—4.2.

Amanita vaginata (Bull. Ex Fr.) Vitt.

Sporophore Conic, solitary, 20-25 mm. in diam., greyish to whitish in colour. Fleshy, hygrophanous, glabrous, striate, *Lamellae* Free, crowded, brittle, whitish in colour, *Stipe* Centric, concolorous with the pileus, glabrous, hollow, 50-60 mm. x 5-6 mm., gradually tapering towards the pileus. *Volva* present but without annulus. *Context* Fleshy whitish, composed of loosely interwoven hyphae. *Sporeprint* White colour in mass. *Spore* Globose to sub-globose in shape, apiculus, glabrous, 7.40μ — 9.25μ in dimension Q. 1. *Basidia* Clavate terrasterigmatic, 31.45μ — 37.00μ (34.41 x 5.55μ — 7.40μ (6.29) 5.4-Q.

The identification of the species were done with the help of the works of Merrill (1909), Pegler (1967-68) Pegler and Rayner (1969) and Singer (1975).

Department of Botany
Viswa Bharati
Santiniketan

DILIP GUPTA

REFERENCES

- Merrill, W. A. (1909). Illustration of Fungi-III *Mycologia*, 1, 83-86.
Pegler, D. N. (1967-'68). Studies on African Agaricales: 1, *Kew Bulletin*, 21, 409-533.
Pegler, D. N. and Rayner, R. W. (1969). A contribution to the Agaric Flora of Kenya, *Kew Bulletin*, 23, 347-409.
Singer, R. (1975). *Taxonomy of the Order Agaricales*. 3rd Edin.