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AGARICALES OF WEST BENGAL : IV

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The present paper gives an account of six species of Agaricales of Bankura district and its adjoining areas of West Bengal. Out of which *Phaeomarasmius erinaceous* (Fr.) Kuhn., *Porphyrellus malaccensis* (Pat & Baker) Singer, *Boletellus obscurecoccineus* V. Hohn., *Collybia confluens* (Pers. Ex Fr.) Kummer, *Marasmius umbrinus* Pegler are first reported from India and *Amanita vaginata* (Bull. Ex. Fr.) Vitt. is reported from West Bengal for the first time.

INTRODUCTION

The fungus flora of Bankura district has been recently reported by Ray and Samajpati (1976). Prior to this report there is no scientific on this topic from Bankura district. It has been decided to publish all the available informations about the fungi growing in this region. This is the second report in the series.

The necessary informations about topography, ecological factors influencing he fungal vegetation, rainfall, temperature and relative humidity and edaphic actors have already been discussed in our previous communication (1976).

ENUMERATION OF THE SPECIES

Phaeomarasmius erinaceous (Fr.) Kuhn.

Trans. Brit. Mycol. Soc. 43, (2), 159-439 (1960) *Sporophore* Umbonate, diameter-15-20 m.m., 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 plieus, 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,Homoiomerous, sub-hymenium well developed. *Besidium* Clavate, 27.75μ-29.60μ (28.49) x 5.55μ-7.40μ (6.66), Q-.4.2 *Spore* Elliptic in shape, glabrous, rusty brown colour in mass, 7.40μ-9.25μ (7.77) x 3. 70μ-5.55μ (4.7), Q. 1.6. *Cheilocystidia* Thin walled, hyaline, smooth, heteromorphus 12 95μ-29.60μ x 7.40μ-11.10μ.

Porphyrellus malaccensis (Pat & Baker) Singer

Singer, R. (1975) Taxonomy of the order Agaricales- (3rd Edin)-P. 748 *Sporophore* Umbilicate, 50-60 m.m. 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 humen present near the stipe & tubes with smaller lumen present near the margin, cream yellowish brown or sometimes with orange to red tinge. *Stipe* Ecentric, 40-50 m.m. x 3-5m.m. diam, 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) x 3.70μ-5.5μ (4.31),Q-2.3. *Basidia* Clavate, tetrasterigmatic. 24.05μ-25.90μ (24.35) x 5.55μ-7.40μ (6.47), Q-3.7. *Cystidia* Thin walled, hyaline. 74.00μ-85.10μ (80.66) x 7.40μ-11.10μ (9.62), Q-8.3

Boletellus obscurecoccineus V. Hohn.

Singer, R. (1975) Taxonomy of the order Agaricales (3rd Edin)-P. 751 *Sporophore* convex to flat. 40-50 m.m. 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 m.m. In between the tubes thin walled hyphae loosely arranged. *Stipe* Centric, glabrous, solid, olivaceous black, 3?-60 m.m. x 4-6 m.m. Both volva & annulus absent. *Context* 1 5 m m.-2.5 m m. 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.

Collybia confluens (Pers. Ex Fr.) Kummer.

Kew Bulletin 23: (4) 347-409 (1969) *Marasmius confluens* (Pers. Ex Fr.) Karst. Finl-Basidsv. 102 (1889) *Agaricus confluens* (Pers Ex Fr.) Syst. Mycol. I : 123 (1821) *Sporophore* Caespitose, 20-45 m.m. in diam., umbilicate, non-hygrophanous, glabrous, greyish to light pink in colour, margin primarily incurved. *Lamellae* Free, pliable, 2-3 gills per m.m. colour at first & at maturity white to pale buff. *Stipe* Centric, solid, 25-m m -55 m.m. x 2-4 m.m., concolorous with the pileus *Context* Thin, composed of inter-woven hyphae. *Spore* Globose to sub-globose, non-amyloid, smooth, 1.85μ-3.70μ (2.77) in diamension. Q. I. *Basidia* Clavate, tetrasterig-matic, 20.35μ-24.05μ (22.20) x 1.85μ-3.70μ (3.08), Q. 7.2. *Pleurocystidia* None, cheilocystidia,-many, hyaline, thin walled, variable in size. *Hymenophoral trama* composed of thin walled hyphae.

Marasmius umbrinus Pegler Kew Bulletin 21 : (3) 499-532 (1967-'68)

Sporophore Convex, 5-30m.m. in diam. Burnt umber to blackish colour at the centre of the pileus, chestnut colour to-wards the margin, margin, striate, entire. *Lamellae* Adnexed, Brownish with many lamellulae. *Stipe* 30 m.m.-80m.m. x 1-2 m.m., centric, Hollow, base slightly bulbous, volva & annulus absent. *Context* Thin. *Spores* Globose, glabrous, non-amyloid, 3.70μ-5.55μ in diamension, Q. I. *Basidia* Clavate, tetrasterigmatic, 12.95μ-14 80μ (14.60) x 3.70μ, Q. 3 90. *Cheilocystidium* scattered, remain in a cluster, short, stout,

apex pointed, rigid, size-7.40μ-9.25μ *pleurocystidium* none. *Hymenophoral trama* Sub-regular to irregular, consisting of thin walled hyphae, Homoiomerous. *Caulocystidia* numerous, arranged in a small cluster & along the entire length of the stipe. lanceolate, apex pointed, hyaline, Size-18.50μ-22.20μ x 1.85μ 0.925μ.

Amanita vaginata (Bull. Ex Fr.) Vitt. Kew Bulletin 16 : (1) 65-73 (1962-'63)

Sporophore Conic, solitary, 20-25m.m. 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. 50-60m.m. x 5-6m.m., gradually tapering to-wards the pileus. *Volva* present but without annulus. *Context* Fleshy, whitish, composed of loosely interwoven hyphae. *Sporeprint* White colour in mass. *Spore* Globose to subglobose in shape, apiculus, glabrous, 7.40μ-9.25μ in diamension Q. I. *Basidia* Clavate, terrasterigmatic. 31.45μ-37.00μ (34.41) x 5.55μ-7.40μ (6.29) 5.4-Q. value.

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