GYNANDROSPOROUS SPECIES OF *OEDOGONIUM BORISIANUM* (LE CL.) WITTR. EX HIRN (CHLOROPHYCEAE) FROM BANGLADESH

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Abstract

Gynandrosporus species of *Oedogonium borisianum* (Le Cl.) Wiltr. ex Hirn not reported earlier from Bangladesh has been described and illustrated.

Recently 72 taxa of *Oedogonium* have been complied from Bangladesh (Ahmed et al. 2008). Islam *et al.* (1980) described idioandrosporus form of *O. borisianum* (Le Cl.) Wittr. ex Hirn from Dubalhati Beel of Naogaon, Bangladesh. Gonzalves (1981) mentioned that this species could be gynandrosporus or idioandrosporus. During the survey of *Oedogonium* spp. from Rajshahi district (Naz *et al.* 2009), the authors come across the gynandrosporus sp. of *O. borisianum* which is described and illustrated in the present account.

**Oedogonium borisianum** (Le Cl.) Wittr. ex Hirn

(Figs 1-2) (Gonzalves 1981, 396, Pl. 9, Fig. 292A)

Plants dioecious, gynandrosporous. Vegetative cells cylindrical, 46-73 µm long, 11-13.2 µm in diameter, basal cell elongate. Suffultory cell inflated, 48 µm long, 38 µm in diameter. Oogonium single, obovoid or ellipsoid, 43 µm long, 33 µm in diameter, poriferous, pore superior; oospore ovoid nearly filling the oogonium, 36 µm long, 30 µm in diameter, oospore wall smooth. Androsporangia seriate, on the upper part or top of the filament, up to 7 in number on the same filament bearing oogonium, 24 µm long, 10 µm in diameter. Dwarf male (nannandrium) somewhat curved, situated on the suffultory cells, 33 µm long, 10 µm in diameter.

Notes: Islam *et al.* (1980) described idioandrosporous sp. of this alga; dwarf male dumble shaped, straight; oogonial pore median.

Collection No. Oed. 039, 109, 115; 18.11.2001, Godagari Beel and Dhampur Beel in Godagari, Rajshahi, growing on *Ipomoea aquatica* Forsk., pH 7.3.

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Figs 1-2. *Oedogonium borisianum* (Le Cl.) Wittr. *ex* Hirn. 1a-c. Filament with basal holdfast (a), two cells from median region of the filament (b) and oogonium, dwarf males and series of androsporangia (c). 2. A photomicrograph of the alga showing suffultory cell, nannadria, oogonium and androsporangia at the tip. Scales = 50 µm.

References


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