

DESMIDS OF BAREILLY-XII

IQBAL HABIB, U.C. PANDEY and U.K. CHATURVEDI

Laboratory of Phycology, Department of Botany,

Bareilly College, Bareilly-243005, India.

The present communication deals with taxonomic enumeration of twenty seven taxa of desmids, collected from different localities; situated, in and around Bareilly district. All the taxa were being recorded for the first time from this part of state.

Keywords : Chlorophyceae; Desmids; Planktonic; Taxonomy.

Although, Iyengar and Vimala Bai (1941); Suxena and Venkateswarlu (1968); Prasad and Mehrotra (1977); Agarkar *et al.* (1979); Hegde (1986); Pandey and Iqbal (1987); Chaturvedi *et al.* (1987); Iqbal and Pandey (1989); studied the desmid flora from different parts of the country, still our knowledge of Desmidiaceae in India is inadequate. The taxa recorded here are new additions to the desmid flora of Bareilly district, (U.P.), India. For the identification of taxa, standard publications (West and West, 1904-12; Tiffany and Britton, 1952; Scott and Prescott, 1961; Croasdale and Scott, 1976) were consulted.

Bareilly district is situated at a distance of 8 km from the West bank of the river Ram Ganga at 79.5°E longitude and 28.5°N latitude at

172.21 meter above sea level, bordering the tarai region of Himalayas. The climatic conditions of Bareilly district are more suitable for the extensive growth of different type of algae.

Fortnightly collections were made at different localities situated in Bareilly district during 1988-89. The forms were collected in polyethylene bottles, observed and preserved in 4% formalin for further study. The algal specimens have been deposited in the Laboratory of Phycology, Department of Botany, Bareilly College, Bareilly alongwith their accession numbers IH 361 to IH 372.

Systematic enumeration of the species

1. *Closterium acerosum* (Schrank.) Ehr. f. *rectum* Scott *et* Prescott

- Habitat : Planktonic in a pond,
Nekpur (IH 372)
2. *C. actum* Breb. var. *variable*
(Lemm.) Krieg.
Habitat : Planktonic in a pond,
Rubber factory (IH 370).
3. *C. archerianum* Cleve
Habitat : Planktonic in a pond,
Bisalpur road (IH 371).
4. *C. baillyanum* Breb.
Habitat : Planktonic in a pond,
Dhopa mandir (IH 369).
5. *Euastrum ansatum* Ralfs
Habitat : Planktonic in a pond,
Bisalpur road (IH 371).
6. *E. ansatum* Ralfs var. *dideltoiforme*
Duc.
Habitat : Planktonic in a puddle,
Nekpur (IH 368).
7. *E. bidentatum* Naeg.
Habitat : Planktonic in a Pond,
Izatnagar (IH 361).
8. *E. elobatum* (Lund) Roy et Biss.
Habitat : Planktonic in a pond,
Bisalpur road (IH 371).
9. *E. platycerum* Reinsch forma
Scott et Prescott
Habitat : Planktonic in a pond,
Bisalpur road (IH 371).
10. *Cosmarium holmiense* Lund. var.
nanum Gutw.
- Habitat : Planktonic in a fish
pond, Izatnagar (IH 362).
11. *C. medioscrobiculatum* West et
West
Habitat : Planktonic with other
algae, Nakatia river (IH 364).
12. *C. notabile* Breb. var. *medium*
(Gutw.) Krieg et Gerl.
Habitat : Planktonic in a pond,
Rubber factory (IH 370).
13. *C. phaseolus* Breb. var. *subbireme*
Racib.
Habitat : Planktonic in river Ram
Ganga (IH 363).
14. *C. phaseolus* Breb. var. *skujae*
Krieg. et Gerl.
Habitat : Planktonic in a Cantt.
pond, Bareilly Cantt. (IH 365).
15. *C. pyramidatum* Breb. *stephani*
(Irenee-Marie) Krieg.
Habitat : Planktonic in a fish
pond, Izatnagar (IH 362).
16. *C. regnellii* Wille f. *minus* Boldt.
Habitat : Planktonic in a pond,
R.K. University (IH 365).
17. *Micrasterias denticulata* Breb.
Habitat : Planktonic in a pond,
Trishul Air Port (IH 368).
18. *M. pinnatifida* (Kuetz.) Ralfs
Habitat : Planktonic in a pond,
Rampur Road (IH 366).

19. *M. thomasiana* var. *notata* (Nor-dst.) Groenihl.

Habitat : Planktonic in a pond, Rampur Road (IH 366).

20. *Staurastrum leptocladum* var. *cornutum* Wille

Habitat : Planktonic in a pond, Bareilly club (IH 367).

21. *S. orbiculare* var. *depressum* Roy et Biss.

Habitat : Planktonic in a pond, R.K. University (IH 365).

22. *S. punctulatum* var. *kjelmanii* Wille

Habitat : Planktonic in a pond, Bareilly Club (IH 367).

23. *S. quadricornutum* Roy et Biss.

Habitat : Planktonic in a fish pond, Izatnagar (IH 362).

24. *S. zahibrückneri* Lutkem

Habitat : Planktonic in a river Ram Ganga (IH 363).

25. *Sphaerozosma granulatum* Roy et Biss.

Habitat : Planktonic in a pond, Nekpur (IH 372).

26. *Onychanema laeve* Nordst, var. *perlatum* Gronbl. et Scott.

Habitat : Planktonic in a pond, Bisalpur road (IH 371).

27. *Hyalotheca dissiliens* (Sm.) Breb. f. *minor* Delp.

Habitat : Planktonic in a pond, Izatnagar (IH 361).

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