



## Survey on *Coleochaete* species from Ramgarh Tal Gorakhpur (U.P.) India

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### Abstract

Present paper deals with genus *Coleochaete* which includes 18 genera 22 species and 4 varieties. Of these *Coleochaete pseudosoluta* Gauthier Lievre, *Coleochaete divergens* Pringsheim, *Coleochaete conchata* Moebius, *Coleochaete orbicularis* Kutzing *Coleochaete Awadhiellagen* and *Coleochaete pulvinata Indica* are new record for Ramgarh Tal Gorakhpur.

**Keywords:** *Phycology, Coleochaete, Ramgarh Tal Gorakhpur*

### Introduction

A good deal of work has been done concerning the occurrence and distribution of *Coleochaete* in India. Venkataraman (1957) Saxena (1962) Randhawa and Venkataraman (1962) Sharma (1963) Prasad and Srivastava (1965) Patel (1966) Prasad and Asthana (1978) Sharma (1981) Tiwari and Pandey (1984) Sharma and Kargupta (1991) Khan and Nurul Islam (2000) and Shankaran (2005). District Gorakhpur lies between latitude 26° - 40° north and longitudes 83° - 22° East. Geographical area of Gorakhpur district is 3843.8 sq Km.

### Materials and Method

Sample collections have been collected from Ramgarh Tal Gorakhpur (Sep 2015 to Feb 2016). Sample were preserved in 4% formalin with little amount of glycerine. Supporting plants of *Hydrilla*, *Chara* and *Utricularia* are used for collecting *Coleochaete* species. Photomicrography was done by Nikon Lavofot II with attached camera. Taxa were identified using classical monograph. Tupa (1974) Prasad and Jain (1975) Singh and Pandey (1981).

### Results and Discussion

Total of 18 genera 22 species and 4 varieties of *Coleochaete* species are collected from Ramgarh Tal Gorakhpur. Patel (1968) have reported 3 species of *Coleochaete* from Gujrat. Prasad and

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Asthana (1979) have reported a new genera of *Coleochaete*. (*Coleochaete awadhiellagen*) Sharma (1983) have reported *Coleochaete orbicularis* Pringsheim from West Bengal. Tiwari (1983) have reported *Coleochaete conebata* Moebius from Mourivillage Pratapgarh. *Coleochaete pseudosoluta* Gauthier Lievre. *Coleochaete pulvinata* var. *Indica* Prasad and Asthana. *Coleochaete scutata* var. *minor* Braun and *Coleochaete pulvinata* var. *minor* Hansg are first time reported from Ramgarh Tal Gorakhpur.

### Coleochaete species collected from Ramgarh Tal Gorakhpur.

#### S.N. Coleochaete Species

1. *Coleochaete pulvinata* Kutzing
2. *Coleochaete nitellarum* Jost
3. *Coleochaete conchata* Moebius
4. *Coleochaete soluta* (Breb) Pringsheim
5. *Coleochaete scutata* Breb
6. *Coleochaete pulvinata* Braun Kutzing
7. *Coleochaete pulvinata* var. *minor* Braun
8. *Coleochaete scutata* var. *minor* Moebius
9. *Coleochaete scutata* var. *minor* Hansg
10. *Coleochaete pseudosoluta* Gauthier Lievre
11. *Coleochaete divergens* Pringsheim
12. *Coleochaete coenebata* Moebius
13. *Coleochaete pulvinata* var. *Indica* Prasad and Asthana
14. *Coleochaete ovalis* Smith
15. *Coleochaete orbicularis* Pringsheim



16. *Coleochaete awadhiellagen*  
 17. *Coleochaete conebata indica* Tiwari and Pandey  
 18. *Coleochaete orbicularis* Pringsheim

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