



## Study on bark algae *Trentepohlia* species from Purvanchal and bordering area of Bihar

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### Abstract

Present Paper deals with 20 taxa of *Trentepohlia* which includes 23 species 21 genera and 4 varieties. Of these *Trentepohlia* *iolithus* Walroth, *Trentepohliadia* *lepta* Hariot, *Trentepohlia* *aurea* Martius, *Trentepohlia* *arborum* Agardh and *Trentepohlia* *umbrina* Bornet are first time reported from Purvanchal and bordering area of Bihar, They constitute new record for the area.

**Keywords** – *Phycology, Bark, Algae Trentepohlia, Purvanchal*

### Introduction

A good deal of work has been done on the occurrence and distribution of *Trentepohlia* species in India. Bruhal and Biswas (1923) Hariot (1940) Biswas (1942) Wildeman (1952) Randhawa and Venkataraman (1957) Saxena (1962) Jeejabai (1962) Vaidya and Upadhyaya (1968) Islam (1974) Kamat and Haramkhedar (1976) Shirode (1982) Prasad and Fatma (1983) Nirmala and Barathan (1990) Sharma and Mehrotra (1991) Habib and Pandey (1992) Pannikar and Sindhu (1993) Mishra and Mehrotra (2004) Habib and Chaturvedi (2005) and Nurkhede and Ragothaman (2007)

### Materials and Method

*Trentepohlia* species were collected from bark of *Terminalia*, *Anacardium*, *Acacia* and *Aristolochia*. Trunks of *Quercus*, *Eucalyptus*, *Cinchona* are also used for the collection of *Trentepohlia* species. Collection is done with 7 months (Sep 2015 to Mar 2016). Samples were preserved in 4% formalin with little amount of glycerine. Photomicrography is done with Nikon Lavofot II with attached camera. Identification is based on classical literature Printz (1942) Gribb (1968) Akiyama (1989) Rindi and Gall (2003).

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### Results and Discussion

20 taxa, 23 species, 21 genera and 4 varieties were collected from Purvanchal and Bordering area of Bihar. Biswas (1940) has reported 4 taxa of *Trentepohlia* from West Bengal and Assam. Chowdary (1959) has described 5 species of *Trentepohlia* from Bihar. Premila (1990) has reported 6 species of *Trentepohlia* from Nilgiris Tamilnadu. Panikkar (1995) has described 2 species of *Trentepohlia* from Orrisa. Fatma (1997) has reported 3 species of *Trentepohlia* from Lucknow. *Trentepohlia* *iolithus* Walroth, *Trentepohlia* *dialepta* Hariot, *Trentepohlia* *aurea* Martius, are reported first time from Purvanchal. *Trentepohlia* *arborum* Agardh, *Trentepohlia* *umbrina* Bornet are first time reported from Bordering area of Bihar.

### List of *Trentepohlia* species collected from Purvanchal and Bordering area of Bihar

1. *Trentepohlia aurea* (Linn) Martius
2. *Trentepohlia aurea* Martius var. *tenuior* Bruhl and Biswas
3. *Trentepohlia abietina* (Flotow) Hansg
4. *Trentepohlia arborum* Agardh Hariot
5. *Trentepohlia gracilis* Iyengarii
6. *Trentepohlia thevalliensis* Panikkar and Sindhu
7. *Trentepohlia monilia* Wildeman
8. *Trentepohlia umbrina* (Kutz) Bornet Inwille



9. *Trentepoholia iolithus* Wallroth
10. *Trentepoholia pathanamthittensis* Panikkar and Sindhu
11. *Trentepoholia angadikalensis* Panikkar
12. *Trentepoholia dialepta* Hariot
13. *Trentepoholia torulosa* Wildeman
14. *Trentepoholia tenuis* Zell de Toni
15. *Trentepoholia olithus* Wallich var. *bavina* Rebenb
16. *Trentepoholia moniliade* Wildeman
17. *Trentepoholia rigidula* Hariot
18. *Trentepoholia lagenifera* Hildebr
19. *Trentepoholia torulosa* Agardh
20. *Trentepoholia fritsch* var. Muell Hariot

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