

## SOME DIATOMS FROM UDALKACHAR, SARGUJA DISTRICT (MADHYA PRADESH) INDIA - A SURVEY

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The paper deals with the taxonomic enumeration of 26 taxa of freshwater diatoms belonging to 10 genera described from Udalkachar, Sarguja district of Madhya Pradesh, India during 1988-89. All these taxa are being recorded for the first time from Madhya Pradesh.

**Keywords :** Diatoms; Freshwater algae; Taxonomy.

Although a good deal of work has been done on the diatomaceous flora of India yet no reports are available on the diatoms occurring in Madhya Pradesh. While surveying the freshwater algae of Udalkachar and adjoining areas, the author came across 26 taxa of Diatoms. The taxa have been identified according to Hustedt (1930), Tiffany and Britton (1952), Prescott (1962) and Sarode and Kamat (1984).

Collections were made from different localities situated in and around Sarguja district during 1988-89. The forms were collected in polythene bottles, and were preserved in 4% formalin solution for further study. The algal materials have been deposited at the Laboratory of Phycology, Department of Botany,

Bareilly College, Bareilly alongwith their accession numbers MPS-4006 to MPS-4025.

### Taxonomic Treatment

*Synedra rumpens* Kuetz.

Habitat : Planktonic in a pond near Hasdev river (MPS 4012).

*Cocconeis placentula* Ehr.

Habitat : From a pond near Udalkachar railway station (MPS 4021).

*Gyrosigma spencerii* (Smith) Cleve

Habitat : From a pond near Udalkachar railway line (MPS 4023).

*G. acuminatum* (Kuetz.) Cleve

Habitat : Planktonic in Hasdev river (MPS 4015).

*Navicula tuseula* (Ehr.) Grun f. *indica*.

Habitat : Planktonic in a ditch near Hasdev river (MPS 4014).



- N. mutica* Kuetz var *undulata* (Hilse) Grun  
Habitat : Planktonic in a pond near Udalkachar railway line (MPS 4016).
- N. gracilis* Ehr.  
Habitat : Planktonic in a pond near Hasdev river (MPS 4012).
- N. platystoma* Ehr.  
Habitat : Planktonic in a pond near Udalkachar railway station.  
(MPS 4021).
- N. salinarum* Grun.  
Habitat : Planktonic in a pond near Udalkachar railway station.  
(MPS 4021).
- N. pupula* (Kuetz.) var. *rectangularis* (Greg.) Grun.  
Habitat : Planktonic in a ditch near Udalkachar railway line (MPS 4022).
- Pinnularia viridis* (Nitzsch) Ehr.  
Habitat : Planktonic in a river Hasdev  
(MPS 4015).
- Cymbella affinis* Kuetz.  
Habitat : Planktonic in a ditch near Hasdev river (MPS 4014).
- C. tumida* (Breb) Van Heurck  
Habitat : Planktonic in a ditch near Hasdev river (MPS 4014).
- C. ventricosa* Kuetz.  
Habitat : Planktonic in a pond near railway line (MPS 4021).
- C. prostrata* (Berk.) Cleve  
Habitat : Planktonic in a pond near Hasdev river (MPS 4012).
- C. rivularis* Gandhi  
Habitat : Planktonic in a ditch near railway line (MPS 4018).
- Gomphonema lanceolatum* Ehr.  
Habitat : Planktonic in a pond near Hasdev river (MPS 4014).
- G. parvulum* (Kuetz.) Grun  
Habitat : Planktonic in a pond near railway line (MPS 4018).
- G. sphaerophorum* Ehr.  
Habitat : Planktonic in a ditch near Hasdev river (MPS 4021).
- G. subapicatum* Fritsch & Rich  
Habitat : Planktonic in a pond near railway line (MPS 4023).
- Epithemia argus* (Ehr.) Kuetz.  
Habitat : Planktonic in a pond near railway line (MPS 4023).
- Nitzschia angustata* var. *genuina* Meister  
Habitat : Planktonic in a pond near Hasdev river (MPS 4012).
- N. clausii* Hantz.  
Habitat : Planktonic in a pond near Hasdev river (MPS 4012).
- N. commutata* Grun.  
Habitat : Planktonic in a ditch river near Hasdev river (MPS 4021).
- Surirella robusta* Ehr.  
Habitat : Planktonic in a pond near Hasdev river (MPS 4012).
- S. horrida* Hust. var. *minor* Ehr.  
Habitat : Planktonic in a pond near railway line (MPS 4023).



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