



*Rec. zool. Surv. India* : 107(Part-3) : 105-108, 2007

**Short Communication**

**THE ROTIFER FAUNA OF HIMAYATSAGAR AND OSMANSAGAR ALONGWITH OTHER ROTIFERS KNOWN FROM HYDERABAD AND NEIGHBOURHOOD, ANDHRA PRADESH, INDIA**

**INTRODUCTION**

The rotifer fauna of India includes 325 species of which 91 are known from Andhra Pradesh (Sharma, 1996; Dhanapathi, 2000). Earlier studies on the rotifer fauna of the water bodies of Hyderabad (Andhra Pradesh) were given by Chandrasekhar (2002) and location, description of the water bodies concerned by Chandrasekhar and Kodarkar (1995). These are Hussainsagar (HS), Himayatsagar (HMS), Osmansagar (OS), Mir alam tank (MAT), Manjira lake (ML), Saroornagar lake (SN), Medchal tank (MT). Md. Arshaduddin and Khan (1991) reported some rotifers of four small ponds of the Osmania University campus (OU), which no more exist. Recently Chandrasekhar and Rajesh (2006) reported eight species from 3 ponds of 0.5 to 1 hectare of Kasu Brahmanda Reddy National Park (KBR). However there is no account of the rotifers of HMS and OS. The rotifers of these two water bodies have been studied recently during 2003, which consisted of 15 species including two species not known earlier from Hyderabad. These and earlier known rotifers of Hyderabad and neighborhood are summarized in the following table.

| Species   | Earlier Reports              | Present Report |
|---|------------------------------|----------------|
| Class ROTIFERA<br>Subclass MONOGONONTA<br>Order PLOIMIDA<br>Family BRACHIONIDAE |                              |                |
| 1. <i>Anuraeopsis fissa</i> (Gosse)   | OU                           | HMS            |
| 2. <i>Brachionus angularis</i> Gosse  | MT, OU, SN                   | HMS            |
| 3. <i>B. bidentata</i> Anderson   | HS, OU                       | –              |
| 4. <i>B. calyciflorus</i> Pallas  | HS, KBR, MAT, ML, MT, OU, SN |                |
| 5. <i>B. caudatus</i> Bar. & Daday  | HS, MAT, MT, OU, SN          |                |

| Species                                     | Earlier Reports              | Present Report |
|---|------------------------------|----------------|
| 6. <i>B. diversicornis</i> Daday            | KBR, OU                      | OS             |
| 7. <i>B. durgae</i> Dhanapathi              | HS, MAT, ML, KBR, SN, OU     |                |
| 8. <i>B. falcatus</i> Zacharias             | HS, MAT, ML, MT, KBR, OU     | OS             |
| 9. <i>B. forficula</i> Wierzejski           | SN, OU                       | OS             |
| 10. <i>B. patulus</i> Müller                | OU                           | –              |
| 11. <i>B. plicatilis</i> Müller             | HS                           | –              |
| 12. <i>B. quadridentatus</i> Hermann        | OU                           | HMS            |
| 13. <i>B. rubens</i> Ehrn.                  | HS, SN                       |                |
| 14. <i>Keratella cochlearis</i> Gosse       | HS                           | HMS            |
| 15. <i>K. procurva</i> (Thorpe)             | –                            | OS             |
| 16. <i>K. tropica</i> (Apstein)             | HS, KBR, MAT, ML, MT, OU, SN | HMS            |
| 17. <i>K. volga</i> (Ehrn.)                 | HS                           | –              |
| Family EUCHLANIDAE                          |                              |                |
| 18. <i>Euchlanis dilatata</i> Ehrn.         | OU                           | –              |
| 19. <i>Tripleuchlanis plicata</i> (Lav.)    | OU                           | –              |
| Family TRICHOTRIDAE                         |                              |                |
| 20. <i>Trichotria tetractis</i> (Ehrn.)     | OU                           | –              |
| Family MYTILINIDAE                          |                              |                |
| 21. <i>Mytilina ventralis</i> (Ehrn.)       | HS, KBR, OU                  | –              |
| Family COLURELLIDAE                         |                              |                |
| 22. <i>Colurella obtuse</i> (Gosse)         | OU                           | –              |
| 23. <i>Lepadella ehrenbergi</i> (Perty)     | OU                           | –              |
| 24. <i>L. ovalis</i> (Müller)               | OU                           | –              |
| 25. <i>L. rhomboides</i> (Gosse)            | OU                           | –              |
| Family LECANIDAE                            |                              |                |
| 26. <i>Lecane (Lecane) curvicornis</i> Mur. | OU                           | –              |
| 27. <i>L. (L.) hastate</i> (Mur.)           | OU                           | –              |
| 28. <i>L. (L.) ludgwigi</i> (Eck.)          | OU                           | –              |
| 29. <i>L. (L.) luna</i> (Müller)            | OU                           | –              |
| 30. <i>L. (L.) papuana</i> (Murray)         | MAT, OU                      | HMS            |

| Species                                     | Earlier Reports  | Present Report |
|---|------------------|----------------|
| 31. <i>L. (L.) ploenensis</i> (Voigt)       | OU               | –              |
| 32. <i>Lecane (Monostyla) bulla</i> (Gosse) | HS, KBR, MAT, OU | HMS            |
| 33. <i>L. (M.) closteroerca</i> (Sch.)      | OU               | –              |
| 34. <i>L. (M.) lunaris</i> (Ehrn.)          | OU               | –              |
| 35. <i>L. (M.) obtuse</i> Murray            | OU               | –              |
| Family NOTAMMATIDAE                         |                  |                |
| 36. <i>Cephalodella gibba</i> (Ehrn.)       | OU               | HMS            |
| 37. <i>Scaridium longicaudum</i> (Müller)   | OU               | OS             |
| Family TRICHOCERCIDAE                       |                  |                |
| 38. <i>Trochocerca rattus</i> (Müller)      | HS               | –              |
| Family ASPLANCHNIDAE                        |                  |                |
| 39. <i>Asplanchna intermedia</i> (Hud.)     | HS, MAT, OU, SN  |                |
| 40. <i>A. sieboldi</i> (Sudzuku)            | OU               | –              |
| Family SYNCHAETIDAE                         |                  |                |
| 41. <i>Polyarthra vulgaris</i> Carliu       | –                | OS             |
| Order GNESIOTROCHA<br>Family FLOSCULARIDAE  |                  |                |
| 42. <i>Limnias melicerta</i> Weissa         | OU               | –              |
| Family HEXARTHRIIDAE                        |                  |                |
| 43. <i>Hexarthra intermedia</i> Wizneiski   | HS               | –              |
| Family FILINIDAE                            |                  |                |
| 44. <i>Filinia longiseta</i> (Ehrn.)        | HS, MAT, OU, SN  | OS, HMS        |
| 45. <i>F. opoliensis</i> Zacharias          | HS, OU           | –              |
| 46. <i>F. terminalis</i> (Plate)            | HS, MAT, SN      |                |
| Family TESTUDINELLIDAE                      |                  |                |
| 47. <i>Testudinella patina</i> (Hermann)    | HMS, KBR, OU     | –              |
| Order BDELLOIDA<br>Family PHILODINIDAE      |                  |                |
| 48. <i>Rotaria neptunea</i> (Ehrn.)         | OU               | –              |

The compilation reveals 48 species belonging to 20 genera from 15 families in three orders from the water bodies of Hyderabad and its neighborhood including *Brachionus durgae*, which appears to be endemic to Andhra Pradesh. Of these, 39 species were reported from OU of which 19 species were from the ponds, which no more exist and not reported from any of the water bodies mentioned herein. Of the 15 species from HMS and OS, eight are from HMS only, one from HMS and OS and two from OS only. The two species known only from OS, namely *Keratella procurva* (Thorpe) and *Polyarthra vulgaris* Carliu are newly reported from the Hyderabad water bodies.

### ACKNOWLEDGEMENTS

The author is thankful to Dr. J.R.B. Alfred, Director, Zoological Survey of India, Kolkata and Dr. C.A. Nageswara Rao, Scientist-E and Officer-in-Charge, Freshwater Biological Station, Hyderabad for facilities.

### REFERENCES

- Chandrasekhar, S.V.A. 2002. A Study on cladoceran fauna of Hyderabad and its environs. *Rec. zool. Surv. India*, **102**(1-2) : 155-167.
- Chandrasekhar, S.V.A. and Kodarkar, M.S. 1995. Conservation of lakes (with special reference to water bodies in and around Hyderabad). Indian Association of Aquatic Biologists, Publ. 3.
- Chandrasekhar, S.V.A. and Arsid Rajesh, 2006. Rotatorian fauna of Kasu Brahmananda Reddy National Park, Hyderabad. *Rec. zool. Surv. India*, **106**(2) : 55-60.
- Dhanapathi, M.V.S.S.S. 2000. *Taxonomic notes on the Rotifers from India* (from 1889-2000). Indian Association of Aquatic Biologists, Publ. 10.
- Sharma, B.K. 1996. Biodiversity of freshwater Rotifera in India-A status report. *Proc. Zool. Soc.* **49**(2) : 73-85.

S.V.A. CHANDRASEKHAR  
*Freshwater Biological Station,  
Zoological Survey of India,  
Hyderabad-500 048*