
REFERENCES

- Anand, V.K. (1988). Limnology of fresh water algae of the Gadigarh stream, Jammu. *Journal of Current Biological Science.* **5** (1): 11-16.
- APHA. (1998). Standard method for the examination of water and waste water, 20th Ed., Washington DC: American Public Health Association. pp.1325.
- Awasthi, A.K. (2015). *Textbook of Algae*. Vikash Publishing House. New Delhi.
- Bajpai, O., Mishra, S., Mohan, N., Mohan, J. and Gupta, R. (2013). Physico Chemical Characteristics of Lakhna devi temple water tank, Lakhna, Bakewar, Etawah, U.P. with reference to Cyanobacterial diversity. *International journal of environment.* **1**(1): 20-28.
- Baruah, P. P., Baruah, R and Thakuria, J. (2013). Chlorophycean diversity of Deepor Beel Wildlife sanctuary. *Phykos.* **43**(2): 33-42.
- Baruah, P.P. and Baruah, R. (2013). Desmid diversity in Khanajan - a manmade channel linking Deepor beel Ramsar site to Brahmaputra River (India). *Plant Science Research.* **35**(1&2): 56-60.
- Baruah, P.P. and Kakati, B. (2009). Studies on Phytoplankton community in a temple pond of Assam, India. *Indian Journal of Environment and Ecoplanning.* **16**(I): 17-24.
- Baruah, P.P. and Kakati, B. (2012). Water quality and phytoplankton diversity of Gopeswar temple freshwater pond in Assam, India. *Bangladesh Journal of Botany.* **41**(2): 181-185.

- Baruah, P.P., Baruah, R. and Das, P. (2014). A preliminary study on diversity and distribution of Spirulina, Arthrospira and Glaucospira (Cyanobacteria) in the Brahmaputra Valley of Assam (India). *Feddes Repertorium*. **125**: 85–92
- Baruah, P.P., Kakati, B. and Ahmed, I. (2009). Some Fresh Water Algae of Oil Refinery Effluent Drains of Assam, India. *Our nature*. **7**:139-145.
- Beetul, K., Sadally, B. S., Hossenkhan, T., Bhagooli, R. and Daneshwar, P. (2014). An investigation of biodiesel production from microalgae found in Mauritian waters. *Biofuel Research Journal*. **2**: 58-64.
- Begum, M. (2014). *Studies on Phytoplankton of Port Blair Coastal Waters Andaman Sea*. Ph.D. Thesis, University of Madras.
- Bhakta, S., Das, K. S. and Adhikary, S.P. (2016). Algal diversity in hot springs of Odisha. *Nelumbo*. **58**:157-173.
- Bhatnagar, M. and Bhardwaj, N. (2013). Algal biodiversity status in Chambal river at Kota Barrage, Rajasthan. *Journal of Experimental Biology and Agricultural Sciences*. **1**(2): 131-138.
- Bhuyan, A. (1999). *Morphological and Ecological Studies on the Myxophycean Algae available in the Nagaon District of Assam. India*. Ph.D. Thesis, Gauhati University.
- Bhuyan, M. J. (2016). Socio-Economic Influences of Wetlands on the Life of the People: A Case Study of Hnahila Beel, Nagaon, Assam, India. *International Research Journal of Social Sciences*. **5**(1): 42-46.

- Bordoloi, D. (2016). *Diversity distribution and seasonality of fresh water algae in Tinsukia district of Assam with special reference to Oil fields.* Ph.D. Thesis, Gauhati University.
- Bordoloi, D. and Baruah, P. P. (2015). Phytoplankton diversity in Digboi Oil refinery effluent receiving stream of Assam, India. *Bangladesh Journal of Botany.* **44**(2): 163-175.
- Bordoloi, D. and Baruah, P.P. (2014). Water quality assessment using phytoplankton in a historical pond of Upper Assam. *Journal of Algal Biomass Utilization.* **5**(2): 1 – 7.
- Bordoloi, D. and Baruah, P.P. (2015). Composition and Seasonality of Phytoplankton in a Crude Oil Effluent holding Pond of Digboi Oil Field, Assam (India). *Bulletin of Environment, Pharmacology and Life Sciences.* **4**(80): 76-82.
- Bordoloi, R.P.M. (1973). *Studies on algal flora of Assam.* Ph.D. thesis, Guwahati University.
- Borgohain, D. and Tanti B. (2014). Diversity of freshwater diatoms from few silica rich habitats of Assam, India. *Journal of Research in Biology.* **4**(1): 1162-1173.
- Brook, A.J. (1981). *The Biology of Desmids.* University of California Press, Berkeley and Los Angeles.
- Buragohain, B. B. and Yasmin, F. (2014). Biomonitoring of pollution by microalgae community in aquatic system with special reference to water quality of river Kolong, Nagaon, Assam, India. *International Journal of Applied Sciences and Biotechnology.* **2**(1): 45-49.
- Buragohain, B. B., Yasmin, F. and Brahma, N. K. (2012). Epipelic Algal Flora of Samaguri Lake of India: A Systematic Approach on Algae – II. *Annals of Biological Research.* **3**(10): 4808-4819.

- Butcher, R. W. (1947). Studies in the ecology of rivers. IV. The algae of organically enriched water. *Journal of Ecology*. **35**:186–191.
- Changkakati, B. (1989). *Studies on algae of Meghalaya with special reference to their altitudinal pattern of distribution*. Ph.D. Thesis, Gauhati University.
- Choudhary, K. K. and Singh, R. K. (2013). Cyanobacterial diversity along altitudinal gradient in Eastern Himalayas of India. *Journal of Algal Biomass Utilization*. **4**(2): 53–58.
- Coesel, F. M. P. and Krienitz, Lothar. (2008). Diversity and geographic distribution of desmids and other coccoid green algae. *Biodivers Conserv*. **17**:381–392.
- Dalal, A. and Gupta, S. (2013). Plankton Diversity of two Temple Ponds of Silchar, Assam, North East India. *International Journal of Science and Nature*. **4**(1): 79-83.
- Das, D. and Keshri, J. P. (2012). Coccoal green algae from Bitang Cho lake (A high altitude lake in Eastern Himalaya). *Indian Hydrobiology*. **15**(2):171-182.
- Das, D. and Keshri, J.P. (2016). Desmids of Eastern Himalaya. Bibliotheca Phycologica Band 119, J. Cramer, Berlin, Stuttgart.
- Das, M. and Keshri, J.P. (2017). Algal diversity in foot hills of Eastern Himalayas-III (Cyanoprokaryota: Nostocales). *Phykos*. **47**(2): 47-65.
- Das, N. (2015). Heritage of North Guwahati from Archaeological Perspective. *International Journal of Interdisciplinary Research in Science Society and Culture*. **1**(2): 2395-4335.

Das, S. K. and Adhikary, S. P. (2012). Diversity of Freshwater Algae In Arunachal Pradesh and their Distribution in different altitudes. *Journal of the Indian Botanical Society.* **91** (1-3) : 160-182.

Das, S. K. (2012). *Freshwater algae from lentic habitats of eastern regions of India.* Ph.D. Thesis, Utkal University.

Das, S. K. (2017). A new species of heterocystous cyanoprokaryota from Sikkim, Eastern Himalayas (India). *Phykos.* **47**(2): 1-4.

Das, S.K. and Adhikary, S.P. (2012). Algal diversity in the reservoirs of Odisha state, India. *Indian Hydrobiology.* **15:** 17-41.

Das, S.K. and Adhikary, S.P. (2012). Freshwater algae of Nagaland. *Journal of the Indian Botanical Society.* **91**(1-3): 99-123.

Das, S.M. (1970). Studies on the ecology and conservation of freshwater lakes of Kashmir. *Proceedings of IUCN. 11th Technical Meeting*, Morges, Switzerland. pp.227-280.

Das, S.M. (1971). Ecology of high altitude lakes of Kashmir. *Ichthyologca.* **10**(1-2): 6-12.

Deb, S., Sarma, B., Rout, J. and Sengupta, M. (2013). Algal diversity in soil crusts of Assam University, Silchar Campus (North East India). *Phykos.* **43**(1): 56-67.

Deka, S.J. and Sarma, G.C. (2011). Preliminary checklist of Oscillatoriaceae (Cyanophyta), Goalpara District, Assam, India. *International Journal of Applied Biology and Pharmaceutical Technology.* **2**(4): 430-433.

Desikachary, T.V. (1959). *Cyanophyta.* ICAR, New Delhi.

- Devi, G.A., Dorycanta, H. and Singh, N.T. (1999). Cyanobacteria flora of rice field soils of Manipur. *Phykos*. **38**(1 & 2): 13-18.
- Devi, P. (1981). *Taxonomical and ecological studies on algal flora of Darrang District of Assam*. Ph.D. Thesis, Gauhati University.
- Dihingia, J. and Baruah, P. P. (2015). Population dynamics of cyanobacteria in alluvial rice grown soils of lower Brahmaputra floodplain. *Phykos*. **45**(1): 54-62.
- Duttagupta, S., Gupta, S. and Gupta, A. (2015). Euglenoid Blooms in the Floodplain Wetlands of Barak Valley, Assam, Northeastern India. *Journal of Environmental Biology*. **25**(3): 369-373.
- Edmondson, W.T. (1959). *Freshwater Biology*. John Wiley and Sons, New York.
- Fay, P. (1983). *The Blue-greens*. The Institute of Biology's Studies in Biology, No. 160, Edward Arnold, London, pp. 88.
- Frempong, E. (1981). Diel variation in the abundance, vertical distribution, and species composition of phytoplankton in a eutrophic English lake. *The Journal of Ecology*. **69**:919-939.
- Fritsch, F. E. (1935). *The structure and reproduction of the algae*. Vol. I. Cambridge University Press, London. pp. 791.
- Fritsch, F. E. (1945). *The structure and reproduction of the algae*. Vol. II. Cambridge University Press, London. pp. 939.
- Gandhi, H. P. (1959). *Fresh-water diatoms of central Gujarat*. Shiva Offset Press.

- Ghosh, S., Barinova, S. and Keshri, J. P. (2012). Diversity and seasonal variation of phytoplankton community in the Santragachi Lake, West Bengal, India. *Q Science Connect.* 2012: 3.
- Gledhill, D. (2008). *The names of Plants* (4th edition). Cambridge University Press. UK. pp.436.
- Gleick, P. H. (1996). Basic water requirements for human activities: Meeting basic needs. *Water International.* **21**(2), 83-92.
- Goswami, C. and Kalita, M.P. (2012). Ichthayofaunal Diversity and Anthropogenic Stress on Deepor Beel: the only Ramsar site in Assam. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT).* **2**(1): 54-59.
- Gurumayum, S. and Senapati, S. S. (2017). Exploration of Algal Varieties from Panikhaiti Area of Guwahati using Winogradsky Column. *International Journal of Current Microbiology and Applied Sciences.* **6**(3): 1195-1204.
- Hajong, P. and Ramanujam, P. (2018). New records of Diatoms from India. *Phykos* **48** (1): 85-87.
- Han Soon, K. (2013). New records of Euglenophyta from Korea. *Journal of Ecology and Environment.* **36**(4): 339-346.
- Handa, S. and Jadhav, R. (2015). Pre and Post monsoon diversity of Chlorophycean algae in Mithi River, Mumbai. *International Journal of Scientific and Research Publications.* **5**(9): 2250-3153.
- Hazarika, D. (1988). *Distribution of Blue green algae of rice fields of Golaghat Sub-Div. Assam.* Ph.D. Thesis, Gauhati University.

Hazarika, R. (2007). *Study of Blue green algae in Greater Guwahati*. Ph.D. Thesis, Gauhati University.

Iyengar, M.O.P. and Desikachary, T.V. (1981). *Volvocales*. Indian Council of Agricultural Research, New Delhi.

Iyengar, M.O.P. and Vimala Bai, B. (1941). Desmids from Kodaikanal, South India. *Journal of Indian Botanical Society*. **20**: 73 -103.

Jena, M., Ratha, S. K and Adhikary, S. P. (2006). Diatoms (Bacillariophyceae) from Orissa State and Neighbouring Regions, India. *Algae*. **21**(4): 377-392.

Jena, M., Ratha, S. K and Adhikary, S.P. (2006). Desmids (Zygnematales, Chlorophyceae) of Orissa state and neighbouring regions, India. *Algological Studies*. **122**:17–34.

Jena, M., Ratha, S.K. and Adhikary, A.P. (2005). Algal diversity changes in Kathajodi river after receiving sewage of Cuttack and its ecological implications. *Indian Hydrobiology*. **8**: 67-74.

Jha, B. K., Mohan, S. S., Mol, A. A., Moses, R. and Babu, M. M, (2014). Diversity and Ecology of Phytoplankton in Manakudy Estuary, Kanyakumari, Tamilnadu, India. *International Journal of Pure and Applied Zoology*. **2**(4): 2320-9577. pp: 308-314.

Jha, B.C., Kaushal, D. K. and Rama Rao, Y. (1985). Chlorococcales of Gobindsagar reservoir-Himachal Pradesh, India. *Phykos*. **24**:27-32.

Jha, S. and Kargupta, A. N. (2001). Cyanobacterial flora of Eastern Koshi basin, Nepal. *Ecoprint* **8**(1): 37-43.

- John, J. (2013). *An Investigation of the Algai Flora of Idukki District*. Ph.D. Thesis. Mahatma Gandhi University. Kochi, Kerela. pp.289.
- Jyothi, K., Prasad, K. and Rao, M. N. (2016). Algae in Fresh Water Ecosystem. *Phykos*. **46** (1): 25-31.
- Kakati, B. (2011). *Studies on the algal ecology of some historical ponds of Kamrup district (Assam)*. Ph.D. Thesis, Gauhati University.
- Kargupta, A.N. and Jha, R.N. (2004). *Algal Flora of Bihar (Zygnemataceae)*. Bishen Singh Mahendra Pal Singh, Dehra Dun
- Khan, K.R. (1991). Biological indicator and indices of water quality. In: Varshney, C.K.(Ed). *Water Pollution and Management*. Wiley Eastern Ltd. New Delhi. pp. 198-208.
- Kharkongor, D. and Ramanujam, P. (2014). Diversity and Species Composition of Subaerial Algal Communities in Forested Areas of Meghalaya, India. *International Journal of Biodiversity*. **456202** :1-10.
- Kheiralla, K. M., Eshag, A., Elzien, S. M., Saud, S. A. and Al-Imam, O. A. (2014). Seasonal Variation of Algae Types, Counts and Their Effect on Purified Water Quality Case Study: Al-Mogran and Burri Plants, Khartoum State, Sudan. *Journal of Biodiversity and Endangered Species*. **2**(2): 2332-2543.
- Khondoker, S., Hossain, L.M. and Khondoker, A.H.M. (2014). Wetland management in Bangladesh: A study on Beel Bakar. *Agriculture, Forestry and Fisheries*. **3**(4): 320328.

- Komarek, J. and Anagnostidis, K. (1998). *Cyanoprokaryota I. Teil: Chroococcales*. In: Ettl, H. von H., Gartner, G., Heynig, H.D. and Mollenhauer (Eds.), SuBWasserflora. Von Mitteleuropa, Gaustav Fischer 19.
- Komarek, J. and Fott, B. (1983). *Das phytoplankton des Südwassers, 7. Teil: - E.* Schweizerbart'sche Verlagsbuchhandlung, Stuttgart.
- Komarovsky, B. (1953). A comparative study of the phytoplankton of several fish ponds in relation to some essential chemical constituents of the water, Israel. *Bulletin of the Research Council of Israel*. **8**: 65-96.
- Kshirsagar, A. D. (2013). Use of Algae as a Bioindicator to Determine Water Quality of River Mula from Pune City, Maharashtra (India). *Universal Journal of Environmental Research and Technology*. **3**(1): 79-85.
- Kuetzing, F. T. (1843). *Phycologia Generalis*. F. A. Brockhaus, Leipzig. K
- Kuetzing, F. T. (1845). *Phycologia germanica*. W. Koehne, Nordhausen
- Kuetzing, F. T. (1849). *Species Algarum*. F. A. Brockhaus, Lipsiae.
- Kumar P. Wangoneo, A., Sonaullah, F and Wanganeo, R. (2012). Limnological study on two High attitude Himalayan Ponds, Badrinath, Uttarakhand. *International Journal of Ecosystem*. **2**(5): 103-111.
- Kumar, A. and Sahu, R. (2012). Diversity of Algae (Chlorophyceae) in Paddy Fields of Lalgutwa Area, Ranchi, Jharkhand. *Journal of Applied Pharmaceutical Science*. **2**(11): pp. 092-095

- Kumar, A., Khanna, D.R. and Bhutiani, R. (2015). Seasonal variations in physico-chemical parameters of River Beas, Himachal Pradesh with special reference to planktonic population. *Environment Conservation Journal.* **16**(3): 127-131.
- Kumar, J., Yadav, A. K. and Bhattacharjya, B. K. (2017). A comparative analysis of phytoplankton diversity and abundance during monsoon season in selected beels (wetlands) of Assam, India. *Journal of Applied and Natural Science.* **9**(4): 2285 – 2290.
- Lakhpat, M. (2017). Freshwater microalgal diversity Cholorococcales from Sawaimadhopur, Rajasthan, India. *International Journal Bioinformatics and Biological Science.* **5**(1): 1-11.
- Laskar, H. S. and Gupta, S. (2009). Phytoplankton diversity and dynamics of Chatla floodplain lake, Barak Valley, Assam, North East India - A seasonal study. *Journal of Environmental Biology.* **30**(6): 1007-1012.
- Lee, R.E. (1999). Phycology, 3rd ed. Cambridge. Cambridge University Press.
- Lieth, H. and Whittaker, R.H. (1975). Modelling the primary productivity of the world. In: Lieth, H. and Whittaker, R. H. (eds.). *Primary Productivity of the Biosphere.* Springer-Verlag, Berlin. pp. 237–263.
- Ling, H.U. and Tyler, P.A. (1986). *A limnological survey of the Alligator River Region.* Research Report 3. Part II: Freshwater algae, exclusive diatoms. Australian Government Publishing Service, Canberra.
- Lowe, R. L. (1974). *Environmental requirements and pollution tolerance of freshwater diatoms.* U.S. Environmental Protection Agency, EPA-670/4-74-005. Cincinnati, OH. pp. 334.

- Lund, J.W.G. (1965). The ecology of freshwater phytoplankton. *Biological Reviews*. **40**: 231 - 293.
- Mahar, M.A., Baloch, W.A. and Jafri S.I.H. (2000). Diversity and seasonal occurrence of planktonic rotifers in Manchhar lake, Sindh Pakistan. *Pakistan Journal of Fisheries*. **1**(1): 25-32.
- Manahan, S.E. (1997). Environmental Science and Technology. Leacis Publishers.
- Mehta, A. and Mehta, N. (2015). Algae Biofuel: Futuristic Trends in Fuel Industry. *International Research Journal of Engineering and Technology (IRJET)*. **2**(5): 2395 -0056.
- Mishra, P.K., Seth, M.K., Prakash, J., Shukla, M. and Dwivedi, R.K. (2009). Freshwater algae from Chandra lake of district Lahual and Spiti, Himachal Pradesh, India. *Indian Hydrobiology*. **12**(1): 105-113.
- Misra, P.K. and Srivastava, A.K. (2003). Some desmids (Chlorophyta) from northeastern Uttar Pradesh, India. *Journal of Indian Botanical Society*. **82**: 85 - 92.
- Mitra, J.N., Mitra, D. and Chowdhuri, S.K. (2010). *Studies in Botany. Vol. I*. Moulik Library, Kolkata.
- Mitsch, W. J. and Gosselink, J. G. (2007). *Wetlands*. 4th edn. Wiley, Hoboken
- Mittal, S. and Sengar, R.M.S. (1991). Studies in the distribution of algal flora in polluted regions of Karwan river at Agra (India). *Current trends in Limnology*. **1**: 121-130.
- Munawar, M. (1974). Limnological studies of fresh water ponds of Hyderabad, India IV. The biocoenose, periodicity of species composition of unicellular and colonial phytoplankton in polluted and unpolluted environments. *Hydrobiologia*. **45** (1): 1–32.

- Nandi, C., Basu, P. and Pal, R. (2017). New insights into the diversity of planktonic Chlorophytes and Charophytes from West Bengal with reports of three novel taxa from India. *Phykos*. **47**(2): 135-149.
- Nasar, S. A. K. and Kaur, S. (1982). Observations on the Abiotic Factors and Planktonic Periodicity in a Shallow Pond of the Highlands of Shillong (India). *Hydrobiologica*. **10** (2).
- Pal, R. and Banerjee, S. (2017). Morpho taxonomic Study of Blue Green Algae from Pristine Areas of West Bengal with special reference to SEM Studies of different Morphotypes and four new reports. *Phytomorphology: An International Journal of Plant Morphology*. **67**(3 &4): 67-83.
- Palmer, C.M. (1969). A composite rating of algae tolerating organic pollution. *Journal of Phycology*. **5**:78–82.
- Palmer, C.M. (1980). *Algae and Water Pollution*. Castle House Publication, London.
- Parukutty, P.R. 1940. The Myxophyceae of the Travancore state, India. *Proceedings of Indian Academy of Science*. **B11**: 117-124.
- Parvateesam, M. and Gupta. S. (1994). Physico-chemical characteristics of a lake receiving effluents from textile mills in Rajasthan. *Pollution Research*. **13**(4): 317-321.
- Pathak, V., Singh, Ravindra, G. P. (2015). Algal oil production. *Chemical Science Journal*. **3**(1): 56-57.

- Patrick, R. (1949). A proposed biological measure of stream conditions based on a survey of the Conestoga Basin, Lancaster County, Pennsylvania. *Proceedings of the Academy of Natural Sciences of Philadelphia*. **101**:277–341.
- Patrick, R., Hohn, M. H., Wallace, J. H. (1954). A new method for determining the pattern of the diatom flora. *Notulae Naturaे* (Philadelphia) No. 259, pp. 12.
- Paudel, Niroj. (2015). New Record of Desmids from Ramwell-Rhino Lake, Chitwan, Nepal. *International Journal of Science and Research (IJSR)*. 2319-7064:523-526.
- Perumal, G.M. and Anand, N. (2009). *Manual of freshwater algae of Tamil Nadu*. Bisen Sing Mahendra Pal Singh Publishers. Deharadun.
- Philipose, M.T. (1967). *Chlorococcales*. Indian Council of Agricultural Research, New Delhi.
- Phukan, S. and Bora, S.P. (2012). Preliminary reports of desmids (algae, Chlorophyceae) From Sivsagar district of Assam. *Journal of Frontline research*. **2**: 134-141.
- Pradhan, P., Bhattacharyya, S., Rani, D. P., Sahu, J. K. and Nayak, B. (2018). Biodiversity of Cyanoprokaryota from Monuments of Western Odisha, India-I (Chroococcales and Stigonematales). *Phykos*. **48** (1): 58-66.
- Prasad, B. N., Jaitly, Y. C. and Singh, Y. (1985). Periodicity and interrelationship of physicochemical factors in ponds. In Adoni, A.D. (Ed.). *National Symposium on Pure and Applied Limnology Bulletin of the Botanical Society, Sagar*. **32**: 1-11.
- Prasad, B.N. and Misra, P.K. (1992). *Algal flora of Andman and Nicobar Island, Vol. II B*. Bisen Sing Mahendra Pal Singh Publishers. Deharadun.

Prasad, B.N., Mehrotra, R.K. and Singh, Y. (1976). Some new taxa of the genus *Lyngbya* Ag. from crop field soil. *New Botanist.* **III** (1&2): 61-65.

Prasad, S.N., Ramachandra, T.V., Ahalya, N., Sengupta, T., Kumar, A., Tiwari, A.K., Vijayan, V.S. and Vijayan, L. (2002). Conservation of wetlands of India-A review. *Journal of Tropical Ecology.* **43:** 173–186.

Prescott, G.W. (1962). *Algae of the Western Great Lakes area.* Otto Koeltz Science Publishers, West Germany. (Cited from Das and Keshri, 2016).

Prescott, G.W. (1984). *The Algae: A review.* Bishen Singh Mahendra Pal Singh Publishers, Dehra Dun, India and Otto Koeltz Science Publishers, Koenigstein, West Germany.

Prescott, G.W., Bicudo, C.E. de. M. and Vinyard, W.C. (1982). *A Synopsis of North American Desmids Part II. Desmidiaceae: Placodermae Section 4.* University of Nebrasca Press, USA.

Prescott, G.W., Croasdale, H.T. and Vinyard, W.C. (1972). *Desmidiales Part I.* In North American Flora Series II, Part 6. The New York Botanical Garden. (Cited from Das and Keshri, 2016).

Prescott, G.W., Croasdale, H.T. and Vinyard, W.C. (1975). *A Synopsis of North American desmids Part II: Placodermae Section 1.* University of Nebrasca Press. (Cited from Das and Keshri, 2016).

Prescott, G.W., Croasdale, H.T. and Vinyard, W.C. (1977). *A Synopsis of North American Desmids Part II: Desmidiaceae: Placodermae Section 2.* University of Nebraska Press, USA (Cited from Das and Keshri, 2016).

Prescott, G.W., Croasdale, H.T., Vinyard, W.C. and Bicudo, C.E.de.M. (1981). *A Synopsis of North American Desmids Part II. Desmidiaceae: Placodermae Section 3.* University of Nebrasca Press. (Cited from Das and Keshri, 2016).

Radmer, R. J. (1996). Algal Diversity and Commercial Algal Products. *BioScience*. **46**(4): pp. 263-270.

Rahman, S., Kakati, S., Choudhury, J. K., Sarma, P. C., Barua, E. and Dutta, A. (2014). Ornamental Ichthyofaunal Diversity of North Guwahati, Assam, *Indian Journal of Agriculture and Veterinary Science*. **7**(4): 2319-2372.

Rahman, W., Deka, R., Kalita, B. and Deka, P. (2016). A comparative study on Ichthyofaunal resource of Charan and Manaha Beel of Morigaon District of Assam, India. *International Journal of Fish and Aquatic Studies*. **4** (4): 43-51.

Rai, S. K. (2012). Five new species of Oedogonium Link (Chlorophyta), a freshwater filamentous algae from Nepal. *Nepalese Journal of Biosciences*. **2**:17-23.

Rai, U.N., R.D. Tripathi, N. Singh, A. Kumar, M.B. Ali, A. Pal and S.N. Singh. (2000). Amelioration of fly-ash by selected nitrogen fixing blue green algae. *Bulletin of Environmental Contamination and Toxicology*.**64**:294-301.

Rajan, D. S. (2015). An Assessment of the Biological Oxygen Demand of Thekkumbhagam creek of Ashtamundi estuary. *International Journal of Fisheries and Aquatic Studies*. **2** (6): 395-397.

Ramesh, B. and Aruna, M. (2015). Diversity of Fresh Water Algae In Trivenisangamam Of Nizamabad District, Telangana State. India. *European Journal of Botany, Plant Sciences and Phytology*. **2**(4): pp. 31-37.

Randhawa, M.S. (1959). *Zygnemaceae*. Indian Council of Agricultural Research, New Delhi. 1-478.

Rao, C. B. (1953). On distribution of algae in a group of six small ponds. *Journal of Ecology*. **41**: 62-71.

Reddy, P.M., Yamnam, D.D. and Imachen, T.Y. (1986). Investigations on Blue green algae of North East India. Distribution and Habbitant preferences. *Phykos*. **25**: 148- 158.

Rekha, A. and Sujathamma, P. (2018). Micro algae of Vakulamatha Cheruvu in foot of the Tirumala Hills, Chittoor District, Andhra Pradesh. *Phykos*. **48**(1): 18-20.

Round, F.E. (1973). The biology of Algae. Edward Arnold, London. pp. 278.

Rout, J. and Borah, D. (2009). Algal Diversity in Chatla Wetland in Cachar District (Southern Assam). *Assam University Journal of Science & Technology: Biological Sciences*. **4**(I): 46-55.

Roy, A. S. and Pal, R. (2015). Planktonic Cyanoprokaryota and Bacillariophyta of East Kolkata Wetlands Ecosystem, a Ramsar Site of India with reference to diversity and taxonomic study. *Journal of Algal Biomass Utilization*. **6**(3): 47- 59.

Roy, A. S. and Pal, R. 2(015). An investigation on Morphotaxonomy and Diversity of Planktonic Chlorophytes from fresh water Eutrophic Wetland of Indian Ramsar Site. *Phykos*. **45** (2): 29-42.

Saha, K. S., Das, R., Bora. N.K. and Uma, L. (2007). Biodiversity of epilithic cyanobacteria from freshwater streams of Kakoihana reserve forest, Assam, India. *Indian Journal of Microbiology*. **47**:219–232.

- Saikia, B. (2015). Changing Status of Wetland Environment: A Case Study of Morikolong Beel of Nagaon District, Assam. *The International Journal of Humanities & Social Studies.* **3**(12): 229-237.
- Saikia, M.K. and Lohar, P. (2012). Structural and Physico-Chemical Correlation of Algal Community of a Wetland Affected by Pulp and Paper Mill effluents. *Global Journal of Science Frontier Research Biological Sciences.* **12**(5): 1-11.
- Saikia, P. and Bordoloi, R.P.M. (1995). Blue green algal flora from rice fields of Assam. *Phykos.* **33**(1&2): 53-57.
- Samad, L. K. and Adhikary, S. P. (2008). Diversity of Micro-algae and Cyanobacteria on Building Facades and Monuments in India, *Algae.* **23**(2): 91-114.
- Sambamurty, AVSS. (2005). *A textbook of Algae.* I.K. International Pvt. Ltd. New Delhi. India. pp. 317.
- Sarma, D., Das, J. and Dutta, A. (2013). Ecology of two riverine wetlands of Goalpara district, Assam, in relation to phytoplankton productivity. *International journal of applied biology and pharmaceutical technology.* **4**(4): 219-225.
- Sarmah, P. and Rout, J. (2018). Algal colonization on polythene carry bags in a domestic solid waste dumping site of Silchar town in Assam. *Phykos.* **48** (1): 67-77.
- Satpati, G. G. and Pal, R. (2017). Taxonomic diversity and SEM study of Euglenoids from Brackish Water Ecosystems of Indian Sundarbans Biosphere Reserve. *Phykos.* **47**(1): 105-122.

- Shanti, K.K., Ramaswamy and Perumalsamy, L.P. (2003). Hydrobiological study of Singanallur lake at Coimbatore, India. *Journal of Nature Environment and Pollution Technology.* **1**(2): 97-101.
- Sharma, B. K. (2004). Phytoplankton Communities of a Floodplain Lake of The Brahmaputra River Basin, Upper Assam. *Journal of the Indian Fisheries Association.* **31:** 27-35.
- Sharma, B. K. (2015). Phytoplankton diversity of Deepor Beel - a Ramsar site in the floodplain of the Brahmaputra River basin, Assam, North-East India. *Indian Journal of Fisheries.* **62** (1): 33-40
- Sharma, O.P. (2003). *Text book on Algae.* Tata McGraw- Hill publishing Company limited. New Delhi. pp. 360.
- Sherwood, A. R., Neumann, J. M., Wang, M. D. and Conklin, K. Y. (2018). Diversity of the green algal genus Spirogyra (Conjugatophyceae) in the Hawaiian Islands. *Phycologia.* **57** (3): 331–344.
- Shimoda, M. and Abe, H. (2001). Irrigation pond ecosystem and its changes-waters of rich biodiversity in rural landscape. *Proceedings of 9th International Conference on the conservation and management of lakes.* Biwako. Japan. pp. 285-288.
- Shukla, S. K., Shukla, C. P. and Misra, P. K. (2008). Desmids (Chlorophyceae, Conjugales, Desmidiaceae) from Foothills of Western Himalaya, India. *Algae.* **23**(1): 1-14.
- Sikdar, J., Mustafa, G. and Keshri, J. P. (2012). Some Fresh Water Green Algae Of West Bengal, *Indian Journal of Applied Biosciences.* **38**(2): 179-186.

- Singh, P. A. and Chaudhary, R. B. (2011). Phenological diversity of chlorophycean algae from river Ganges at Varanasi, Uttar Pradesh. *Journal of Algal Biomass Utilization*. **2**(1): 21-29.
- Singh, D. R., Yadav, S. R. and Shukla, C. P. (2017). Studies on freshwater algae of Mumbai and its environs. *Phykos*. **47**(2): 85-9.
- Sladecek, V. (1973). System of water quality from the biological point of view. *Archiv für Hydrobiologie und Ergebnisse Limnologie*. **7**:1–218.
- Smith, G.M. (1950). *The freshwater algae of United States* (2nd Edn.). Mac Graw Hill, New York. London. pp. 719.
- Smith, G.M. (1955). Cryptogamic Botany, Vol. I. McGraw Hill Book Co, New York. pp. 387.
- Sonule, M. D. and Mulani, R. M. (2018). Bacillariophyceae from Purna River Basin in Parbhani District Maharashtra. *Phykos*. **48**(1): 31-35.
- Sonule, M.D. and Mulani, R.M. (2017). Fresh water algal diversity of Purna river from four sites in Parbhani district Maharashtra. *Phykos*. **47**(2): 14-18.
- Sudhakar, G., Jyoti, B. and Venkataraman, V. (1981). Metal pollution and its impact on algae in floating water of India. *Archives of Environmental Contamination and Toxicology*. **21**: 556-566.
- Talukder, R. (1997). *A taxonomical and ecological survey of BGA of Kamrup district, Assam*. Ph.D. Thesis, Gauhati University.

Tessy Paul P. and Sreekuma R., 2018, Systematic account of Chlorococcales (Class: Chlorophyceae) from the Kole Lands of Thrissur, (part of Vembanad - Kol, Ramsar site), Kerala. *Phykos.* **48**(1): 10-17.

Thangadurai, R., Ravimycin, T. and Sharavana, P. S. (2010). Studies on phytoplankton diversity in Samutharam lake Tiruvannamalai district, Tamil Nadu. *Asian Journal of Environmental Science.* **5**(1): 41-43.

Thirunavukkarasu, K., Soundarapandian, P., Varadharajan, D. and Gunalan, B. (2013). Phytoplankton Composition and Community Structure of Kottakudi and Nari Backwaters, South East of Tamil Nadu. *Aquaculture Research & Development.* **5**:2.

Tilman, D., Kilham, S.S. and Kilham, P. (1982). Phytoplankton community ecology: the role of limiting nutrients. *Annual review of ecology and systematic.* **13**:349372.

Turner, W.B. (1892). The fresh-water algae (Principally Desmidiae) of East India. *Kungl. Svenska Vetenskaps Akademiens Handlingar.* **25**(5): 1-23. (Cited from Das and Keshri, 2016).

Vasistha, P.C. (1960.) A systematic and ecological account of the Cyanophyceae of Hoshiarpur. *Journal of Bombay Natural Historical Society.* **57** (3): 579-589.

Wehr, J.D. and Sheath, R.G. (2003). *Freshwater habitats of algae. Freshwater Algae of North America.* Academic Press, San Diego, CA, 918, pp.308.

Werner, D. (1977). *The biology of Diatoms.* (Ed). Blackwell Scientific Publications. Oxford. pp.484.

West G.S. (1911). Algological notes II-IV. *Journal of Botany, British and Foreign.* **49**: 83-89.

- West, G. S. (1905). The British freshwater algae. *The New Phytologists*. 4(5/6):140-146.
- West, G.S. (1904). *A treatise on the British freshwater algae*. University Press. pp. 372.
- West, G.S. (1914). A Contribution to Our Knowledge of the Fresh-water Algae of Colombia. In: Fuhrmann, O. & Mayor, E. (eds.). *Neuchâtel*. Attinger Frères. pp. 1013-1051.
- West, G.S. (1916). *Algae Vol-1*. Cambridge University Press, Cambridge. pp.475.
- West, W. and West, G. S. (1904). *A monograph of the British Desmidiaceae. Vol. I*. Ray Society, London. (Cited from Das and Keshri, 2016).
- West, W. and West, G. S. (1905). *A monograph of the British Desmidiaceae. Vol. II*. Ray Society, London. (Cited from Das and Keshri, 2016).
- West, W. and West, G. S. (1908). *A monograph of the British Desmidiaceae. Vol. III*. Ray Society, London. (Cited from Das and Keshri, 2016).
- West, W. and West, G.S. (1897). Desmids from lower Bengal. *Journal of the Linnean Society of London Botany*. 33:156-167.
- West, W. and West, G.S. (1899). A further Contribution to the Freshwater Algae of the West Indies. *Journal of the Linnean Society of London Botany*. 34(237):279-295.
- West, W. and West, G.S. (1907). Fresh-water Algae from Burma, including a few from Bengal and Madras. *Annals of Royal Botanical Garden*. 6(2):175-260.
- West, W. and West, G.S. (1912). *A monograph of the British Desmidiaceae. Vol. IV*. Ray Society, London. (Cited from Das and Keshri, 2016).

- West, W., West, G. S. and Carter, N. (1923). *A monograph of the British Desmidiaceae. Vol. V.* Ray Society, London. (Cited from Das and Keshri, 2016).
- Yamagishi, T. (2010). *Plankton Algae of Southeast Asia*. Bisen Sing Mahendra Pal Singh Publishers. Deharadun.
- Yasmin, F., Buragohain, B. B. and Medhi. K. K. (2011). Planktonic Desmid Flora of south of the eastern Himalayas: A systematic approach on Algae-I. *International Journal of Botany*. **7**(2): 154-161.
- Yasmin, F., Buragohain, B. B. and Sarma, R. (2015). Aquatic Algae from Kaziranga National Park, Assam, India. *International Journal of Current Microbiology and Applied Sciences*. **4**(12): 297-302.
- Zelinka, M., Marvan, P. (1961). Zur Prazisierung der biologischen Klassifikation des Reinheit fliessender Gewässer. *Archiv für Hydrobiologie*. **57**:389–407.

ANNEXURE

List of papers presented:

- 1) “**Phytoplankton diversity of certain fisheries of North Guwahati**” in National Seminar on “**Recent Advances in Bio-Science**” organized by Department of Zoology, Pragjyotish College. (21st -22nd September, 2018).
- 2) “**A study on freshwater algal indicators in different ponds of North Guwahati (Kamrup)**” in National Seminar on “**Exploration and Utilization of Bioresources of NE India**” organized by Botanical Society of Assam (BSA). (28th -29th October, 2018).
- 3) “**A Study on freshwater algal diversity in different ponds of North Guwahati (Kamrup) with special reference to algal indicators**” in International Conference on “**Plant Science**” organized by Botanical Society of Assam, Department of Botany, Gauhati University, Department of Botany, Cotton University, Assam Science Technology and Environment Council. (4th -6th February, 2019).