

## List of Tables

<b>TABLE NO.</b>	<b>TITLE</b>	<b>PAGE NO.</b>
Table- 1	Monthly values of physico-chemical parameters of culture ponds (November, 2014 to October, 2015)	37
Table- 2	Monthly values of physico-chemical parameters of culture ponds (November, 2015 to October, 2016)	38
Table- 3	Ranges of physico-chemical parameters and their suitability for pisciculture	39
Table- 4 & 5	Monthly variations in zooplankton classes (nos./l) culture ponds from November, 2014 to October, 2015 and November, 2015 to October, 2016	60
Table- 6 & 7	Monthly abundance of zooplankton (nos./l) from November, 2014 to October, 2015 and November, 2015 to October, 2016	63 & 66
Table- 8 & 9	Monthly variations in phytoplankton classes (nos./l) in ponds from November, 2014 to October, 2016	71
Table- 10 & 11	Monthly abundance of phytoplankton (nos./l) from November, 2014 to October, 2015 and November, 2015 to October, 2016	74 & 77
Table- 12	Simpson dominance index of plankton of two annual cycles	80
Table- 13	Shannon-weaver biodiversity index of plankton of two annual cycles	81
Table- 14	Berger Parker dominance index of plankton of two annual cycles	82
Table- 15	Species richness (Margalef, 1968) of plankton of two annual cycles	83
Table- 16 & 17	Statistical analysis of plankton diversity indices of culture ponds during November, 2014 to October, 2015 and November, 2015 to October, 2016	84
Table- 18 & 19	Index values and condition factor (K) of <i>Heteropneustes fossilis</i> of four seasons, winter, summer, monsoon and post-monsoon from November, 2014 to October, 2015 and November, 2015 to October, 2016	99 & 100

Table- 20 to 23	Mean seasonal variation of gastroscopic index (GaSI), gonadosomatic index (GSI), hepatosomatic index (HSI) and condition factor (K) of <i>Heteropneustes fossilis</i> during the study period	101-104
Table- 24 to 27	Significant correlations among the factors of <i>Heteropneustes fossilis</i> (adult male, adult female, young male and young female) during the study period	105-112
Table- 28 & 29	Index values and condition factor (K) of <i>Clarias batrachus</i> of four seasons like winter, summer, monsoon and post-monsoon from November, 2014 to October, 2015 and November, 2015 to October, 2016	115 & 116
Table- 30 to 33	Mean seasonal variation of gastroscopic index (GaSI), gonadosomatic index (GSI), hepatosomatic index (HSI) and condition factor (K) of <i>Clarias batrachus</i> during the study period	118-121
Table- 34 to 37	Significant correlations among the factors of <i>Clarias batrachus</i> (adult male, adult female, young male and young female) during the study period	122-128
Table- 38 & 39	Index values and condition factor (K) of <i>Anabas testudineus</i> of four seasons, winter, summer, monsoon and post-monsoon from November, 2014 to October, 2015 and November, 2015 to October, 2016	131 & 132
Table- 40 to 43	Mean seasonal variation of gastroscopic index (GaSI), gonadosomatic index (GSI), hepatosomatic index (HSI) and condition factor (K) of <i>Anabas testudineus</i> during the study period	133-136
Table- 44 to 47	Significant correlations among the factors of <i>Anabas testudineus</i> (adult male, adult female, young male and young female) during the study period	137-143
Table- 48 & 49	Seasonal variations of total protein content (%) in body muscles of <i>Heteropneustes fossilis</i> , <i>Clarias batrachus</i> and <i>Anabas testudineus</i> from different seasons during the study period	157 & 159
Table- 50 to 52	Mean values of muscle protein of <i>Heteropneustes fossilis</i> , <i>Clarias batrachus</i> and <i>Anabas testudineus</i> from November, 2014 to October, 2016	162-164
Table- 53 to 55	Statistical correlation between the protein % and the body weight as well as the total length of <i>Heteropneustes fossilis</i> , <i>Clarias batrachus</i> and <i>Anabas testudineus</i>	165-167