

LIST OF TABLES

Table no.	Title	Page no.
1	Trophic state of wetland	8
2	Estimated area of wetlands in India (Million ha)	18
3	Wetland area coverage in five districts of Assam (descending order):	20
4	Wetland Types in Kokrajhar District	25
5	Major Fresh water Beels in Kokrajhar District	25
6	Atmospheric Temperature of Diplai Beel area in 2014, 2015, 2016 and 2017	82
7	Rainfall in Diplai Beel area in 2014, 2015, 2016 and 2017	83
8	Satellite datasets used	87
9	Macrophyte flora Types of Diplai Beel collected in 2014- 15,2015-16 and 2016-17	87-88
10	Macrophyte Flora (family with %) collected from Diplai Beel in years 2014-15, 2015-16 and 2016-17	88
11	Macrophyte flora of Diplai Beel collected in 2014-15, 2015-16 and 2016-17	89-91
12	Diversity Indices	95
13	Density of <i>Eichhornia crassipes</i> (Mart.) Solms. in Diplai Beel during study years.	133

10.i.b	Decreaseing Density of no.4. <i>Azolla pinnata</i> R.Br. (<i>Floating</i>) in Pre Monsoon	135
11.i.b	Decreasing Density in Pre Monsoonof Submerged (anchored) Macrophytes (Sl no. 9 to11)	138
12.i.b	Decreasing Density in Pre monsoon Submerged (suspended) Macrophytes (Sl no. 13 to 14)	142
13.i.b	Decreasing Density in Pre Monsoon Submerged (anchored) macrophytes (Sl no. 15)	145
13.iii.b	Decreasing Density in Post Monsoon of submerged (anchored) macrophytes (Sl no.16)	147
13.iv.b	Decreasing Density in Winter Submerged (anchored) Macrophytes (Sl no. 16)	147
14.i.b	Decreasng Density in Pre Monsoon of Rooted Floating Leaves Macrophytes (Sl no. 17 to 18)	149
15.a.i.B	Decreasing Density in Pre Monsoon Emergent Macrophytes (Sl no. 20 to 26)	153
15.b.i.B	Decreasing Density in Pre Monsoon Emergent Macrophytes (Sl no. 27 ,28 and 33)	157
15.b.ii.B	Decreasing Density in Monsoon Emergent macrophytes (Sl no 28)	159
15.b.iv.B	Decreasing Density in Winter Emergent Macrophytes (Sl no. 27)	161
15.c. i. B	Decreasing Density in Pre Monsoon Emergent Macrophytes (Sl no. 40)	163

15.c.iii.B	Decreasing Density in Post Monsoon Emergent Macrophytes (Sl no. 37 and 38)	165
15.c.iv.B	Decreasing Density in Winter Emergent Macrophytes (Sl no. 35)	167
15.d.i.B	Decreasing Density in Pre Monsoon Emergent Macrophytes (Sl no. 41, 43 and 45)	168
15.d.ii.B	Decreasing Density in Monsoon Emergent Macrophytes (Sl no. 41 and 42)	170
15.d.iii.B	Decreasing Density in Post Monsoon Emergent Macrophytes (Sl no. 41 to 46)	171
16.iv.a	Abundance of <i>Eichhornia crassipes</i> (Mart.) Solms.in Diplai Beel during study years from 2014-15 to 2016-17	174
17. i. B	Decrease in Abundance in Pre Monsoon Floating Macrophyte (Sl no. 2)	176
17. iii.B	Decrease in Abundance in Post Monsoon Floating Macrophyte (Sl no. 6)	177
18. iii.B	Decrease in Abundance in Post Monsoon Submerged (anchored) Macrophytes (Sl. no.9)	181
20. i.B	Decrease in Abundance in Pre Monsoon Rooted Floating Leaves Macrophytes (Sl.no.15)	185
20. ii.B	Decrease in Abundance in Post Monsoon Emergent Macrophytes (Sl. no.16)	186
22.i.B	Decrease in Abundance in Post Monsoon Emergent Macrophytes (Sl. no. 24)	191

22. iii.B	Decrease in Abundance in Post Monsoon Emergent Macrophytes (Sl. no. 21)	193
23. i.B	Decrease in Abundance in Post Monsoon Emergent Macrophytes (Sl. no. 28)	195
23. iv.B	Decrease in Abundance in Winter Emergent Macrophytes (Sl. no. 27)	198
24. i.B	Decrease in Abundance in Pre Monsoon Emergent macrophytes (Sl. no.34 and 38)	199
24. iii. B	Decrease in Abundance in Post Monsoon Emergent Macrophytes (Sl. no.34 and 40)	202
24. iv. B	Decrease in Abundance in Winter Emergent Macrophytes (Sl. no.34,35, 36 and 38)	203
25.i.B	Abundance in Pre Monsoon Emergent Macrophytes (Sl. no.41)	204
25.iv.B	Decrease in Abundance in Pre Monsoon Emergent Macrophytes (Sl. No 41)	207
26C	Monthly Results of Cu, Zn and Pb presence in Macrophyte biomass and Diplai Beel water during 2014-15	278
26D	Monthly Results of Cu, Zn and Pb presence in Macrophyte biomass and Diplai Beel water during 2015-1	279
26E	Monthly Results of Cu, Zn and Pb presence in Macrophyte biomass and Diplai Beel water during 2016-17	280
26	2014-2015, Density and Abundance in Pre Monsoon	97-99
27	2014-2015, Density and Abundance in Monsoon	100-102

28	2014-2015, Density and Abundance in Post Monsoon	103-105
29	2014-2015, Density and Abundance in Winter	106-108
30	2015-2016, Density and Abundance in Pre Monsoon	109-111
31	2015-2016, Density and Abundance in Monsoon	112-114
32	2015-2016, Density and Abundance in Post Monsoon	115-117
33	2015-2016, Density and Abundance in Winter	118-120
34	2016-2017, Density and Abundance in Pre Monsoon	121-123
35	2016-2017, Density and Abundance in Monsoon	124-126
36	2016-2017, Density and Abundance in Post Monsoon	127-129
37	2016-2017, Density and Abundance in Winter	130-132
38	2014-2015, (IVI) of <u>Pre Monsoon</u>	314-316
39	2014-2015, (IVI) of <u>Monsoon</u>	317-319
40	2014-2015, (IVI) of <u>Post Monsoon</u>	320-322
41	2014-2015, (IVI) of <u>Winter</u>	323-325
42	2015-2016, (IVI) of <u>Pre Monsoon</u>	326-328
43	2015-2016, (IVI) of <u>Monsoon</u>	329-331
44	2015-2016, (IVI) of <u>Post Monsoon</u>	332-334

45	2015-2016, (IVI) of <u>Winter</u>	335-337
46	2016-2017, (IVI) of <u>Pre Monsoon</u>	338-340
47	2016-2017, (IVI) of <u>Monsoon</u>	341-343
48	2016-2017, (IVI) of <u>Post Monsoon</u>	344-346
49	2016-2017, (IVI) of <u>Winter</u>	347-349
50	Water Test Results of Diplai Beel in 2014-2015, 2015-16 and 2016-17	249-202
51	Correlation coefficient of water parameter values in the study years 2014-15, 2015-16 and 2016-17	253