

Annexure I: Sediment Quality Data Sheet

			2016		2017	
Sr. No.	Parameters	Sites	Pre Monsoon	Post Monsoon	Pre Monsoon	Post Monsoon
1	Temperature (°C)	Timbi	24.9	22.3	23.8	23.1
		Dhanora	23.8	22.6	24.6	21.5
		Vadadala	23.9	21.3	24.2	21.9
2	pH	Timbi	7.55	7.96	7.83	7.66
		Dhanora	7.82	7.69	7.71	8.02
		Vadadala	7.72	7.88	7.79	8.16
3	EC (μS/cm)	Timbi	396	324	377	351
		Dhanora	389	348	412	391
		Vadadala	376	317	397	337
4	Organic Carbon (%)	Timbi	1.14	1.06	1.21	1.36
		Dhanora	1.24	1.21	1.28	1.19
		Vadadala	1.27	1.12	1.33	1.21
5	Organic Matter (%)	Timbi	1.84	1.72	2.06	1.88
		Dhanora	2.21	2.08	2.23	2.11
		Vadadala	2.19	2.11	2.41	2.27
6	Phosphate (ppm)	Timbi	0.31	0.27	0.23	0.28
		Dhanora	0.3	0.29	0.33	0.27
		Vadadala	0.35	0.27	0.32	0.26
7	Nitrate (ppm)	Timbi	1.62	1.47	1.53	1.58
		Dhanora	1.55	1.39	1.57	1.44
		Vadadala	1.6	1.41	1.55	1.42

Annexure II: List of phytoplankton present at different study sites

(Ti: Timbi; Va: Vadadala; Dh: Dhanora)

Sr. No.	Family	Phytoplankton	Ti	Va	Dh
1	Bacillariophyceae	<i>Amphipleura sp.</i>	+	-	+
2	Bacillariophyceae	<i>Craticula sp.</i>	+	+	+
3	Bacillariophyceae	<i>Cymbella sp.</i>	+	+	-
4	Bacillariophyceae	<i>Gomphonema sp.</i>	+	-	+
5	Bacillariophyceae	<i>Diatoma sp.</i>	+	+	+
6	Bacillariophyceae	<i>Navicula sp.</i>	+	+	+
7	Bacillariophyceae	<i>Nitzschia sp.</i>	+	+	-
8	Bacillariophyceae	<i>Pinnularia sp.</i>	-	-	+
9	Bacillariophyceae	<i>Pleurosigma sp.</i>	+	+	-
10	Bacillariophyceae	<i>Rhopalodia sp.</i>	+	-	-
11	Chlorophyceae	<i>Actinastrum sp.</i>	+	-	-
12	Chlorophyceae	<i>Chlorogonium sp.</i>	+	+	-
13	Chlorophyceae	<i>Closterium sp.</i>	-	-	+
14	Chlorophyceae	<i>Micractinium sp.</i>	+	-	+
15	Chlorophyceae	<i>Monoraphidium sp.</i>	+	-	+
16	Chlorophyceae	<i>Oedogonium sp.</i>	+	+	-
17	Chlorophyceae	<i>Oocystis sp.</i>	-	+	+
18	Chlorophyceae	<i>Pandorina sp.</i>	+	+	+
19	Chlorophyceae	<i>Pediastrum sp.</i>	+	-	+
20	Chlorophyceae	<i>Scenedesmus sp.</i>	-	+	+
21	Chlorophyceae	<i>Spirogyra sp.</i>	+	+	+
22	Chlorophyceae	<i>Tetraedron sp.</i>	-	-	+
23	Chlorophyceae	<i>Tetrastrum sp.</i>	+	+	+
24	Chrysophyceae	<i>Mallomonas sp.</i>	+	-	+
25	Cyanophyceae	<i>Anabaena sp.</i>	+	+	+
26	Cyanophyceae	<i>Arthrospira sp.</i>	+	+	+
27	Cyanophyceae	<i>Merismopedia sp.</i>	+	+	+
28	Cyanophyceae	<i>Microcystis sp.</i>	+	+	+
29	Euglenophyceae	<i>Euglena sp.</i>	+	-	+
30	Euglenophyceae	<i>Phacus sp.</i>	-	+	-

Annexure III: List of Avifauna found at different study sites

Wetland Birds

Sr. No.	Family	Scientific Name	Common Name	Ti	Dh	Va
1	Accipitridae	<i>Circus aeruginosus</i>	Eurasian marsh harrier	-	+	-
2	Accipitridae	<i>Haliastur indus</i>	Brahmini kite	+	-	-
3	Alcedinidae	<i>Halcyon smyrenensis</i>	White throated kingfisher	+	+	+
4	Alcedinidae	<i>Ceryle rudis</i>	Pied kingfisher	+	-	-
5	Anatidae	<i>Tadorna ferruginea</i>	Ruddy Shelduck	+	+	-
6	Anatidae	<i>Anas platyrhynchos</i>	Mallard	+	-	-
7	Anatidae	<i>Anas poecilorhyncha</i>	Indian spot billed duck	+	-	-
8	Anatidae	<i>Aythya ferina</i>	Common Pochard	+	+	-
9	Anatidae	<i>Anser anser</i>	Greylag Goose	+	+	+
10	Anatidae	<i>Mareca penelope</i>	Eurasian Wigeon	+	-	-
11	Anatidae	<i>Anas clypeata</i>	Northern Shoveler	+	-	-
12	Anatidae	<i>Sarkidiornis melanotos</i>	Knob-billed Duck	+	-	+
13	Ardeidae	<i>Ardea alba</i>	Great egret	+	-	+
14	Ardeidae	<i>Ardea purpurea</i>	Purple heron	+	-	-
15	Ardeidae	<i>Ardea cinerea</i>	Grey heron	+	+	-
16	Ardeidae	<i>Bubulcus ibis</i>	Cattle egret	+	+	+
17	Ardeidae	<i>Ardea intermedia</i>	Intermdiate egret	+	+	+
18	Ardeidae	<i>Ardeola grayii</i>	Indian pond heron	+	+	+
19	Ardeidae	<i>Nycticorax nycticorax</i>	Black crowned night heron	+	-	-

Sr. No.	Family	Scientific Name	Common Name	Ti	Dh	Va
20	Ardeidae	<i>Egretta garzetta</i>	Little egret	+	+	+
21	Charadriidae	<i>Vanellus indicus</i>	Red-wattled Lapwing	+	+	+
22	Ciconiidae	<i>Mycteria leucocephala</i>	Painted stork	+	-	-
23	Jacaniidae	<i>Metopidius indicus</i>	Bronze-winged Jacana	+	-	+
24	Laridae	<i>Sterna aurantia</i>	River Tern	+	+	+
25	Phalacrocoracidae	<i>Microcarbo niger</i>	Little Cormorant	+	+	+
26	Rallidae	<i>Porphyrio porphyrio</i>	Pruple swamphen	+	+	+
27	Rallidae	<i>Fulica atra</i>	Eurasian Coot	+	-	-
28	Rallidae	<i>Amaurornis phoenicurus</i>	White-breasted Waterhen	+	+	+
29	Rallidae	<i>Gallinula chloropus</i>	Common moorhen	+	+	+
30	Recurvirostridae	<i>Himantopus himantopus</i>	Black-winged Stilt	+	+	+
31	Scolopacidae	<i>Tringa ochropus</i>	Green Sandpiper	+	-	-
32	Scolopacidae	<i>Gallinago gallinago</i>	Common snipe	-	+	-
33	Threkiornithidae	<i>Plegadis falsinellus</i>	Glossy ibis	+	+	+
34	Threkiornithidae	<i>Pseudibis papillosa</i>	Red naped ibisi	+	+	+
35	Threkiornithidae	<i>Platalea leucorodia</i>	Eurasian spoonbill	+	-	-
36	Threkiornithidae	<i>Threskiornis melanocephalus</i>	Black headed ibis	+	-	-

Non wetland birds

Sr. No.	Family	Scientific Name	Common Name	Ti	Dh	Va
1	Accipitridae	<i>Milvus migrans</i>	Black kite	+	+	+
2	Accipitridae	<i>Accipiter badius</i>	Shikra	+	+	+
3	Acrocephalidae	<i>Acrocephalus agricola</i>	Paddy field warbler	-	-	-
4	Apodidae	<i>Apus affinis</i>	Little Swift	+	+	+
5	Cisticolidae	<i>Orthothomus sutorius</i>	Common tailorbird	-	+	-
6	Cisticolidae	<i>Prinia socialis</i>	Ashy prinia	+	+	-
7	Columbidae	<i>Columba livia</i>	Common pigeon	+	+	+
8	Columbidae	<i>Streptopelia chinensis</i>	spotted dove	+	+	+
9	Coraciidae	<i>Coracias benghalensis</i>	Indian roller	+	+	-
10	Corvidae	<i>Dendrocitta vagabunda</i>	Rufous treepie	+	+	+
11	Corvidae	<i>Corvus brachyrhynchos</i>	Common crow	+	+	+
12	Cuculidae	<i>Centropus sinensis</i>	Greater Coucal	+	+	+
13	Cuculidae	<i>Eudynamis scolopaceus</i>	Asian koel	+	+	+
14	Dicruridae	<i>Dicrurus macrocercus</i>	Black drongo	+	+	+
15	Laniidae	<i>Lanius schach</i>	Long tailed shrike	+	-	-
16	Leiothrichidae	<i>Turdoides striata</i>	Jungle babbler	+	+	+
17	Megalaimidae	<i>Psilopogon haemacephalus</i>	Coppersmith barbet	+	-	-
18	Meropidae	<i>Merops orientalis</i>	Green bee eater	+	+	+
19	Motacillidae	<i>Motacilla maderaspatensis</i>	White browed wagtail	+	+	+
20	Muscicapidae	<i>Copsychus fulicatus</i>	Indian robin	+	-	-
21	Muscicapidae	<i>Copsychus saularis</i>	Oriental magpie robin	+	+	+

Sr. No.	Family	Scientific Name	Common Name	Ti	Dh	Va
22	Nectariniidae	<i>Cinniyaris asiaticus</i>	Purple sunbird	+	+	+
23	Oriolidae	<i>Oriolus (oriolus) kundoo</i>	Indian Golden oriole	+	-	-
24	Passeridae	<i>Passer domesticus</i>	House sparrow	+	+	-
25	Phasianidae	<i>Fracnolinus pintadeanus</i>	Grey Francolin	-	+	+
26	Picidae	<i>Dinopium benghalense</i>	Black rumped flameback (Lesser Goldenback)	+	+	+
27	Psittacidae	<i>Psittacula krameri</i>	Rose ringed parakeet	-	+	+
28	Pycnonotidae	<i>Pyconotus cafer</i>	Red vented bulbul	+	+	+
29	Rhipiduridae	<i>Rhipidura aureola</i>	White browed fantail	+	+	+
30	Strigidae	<i>Athene brama</i>	Spotted ownlet	-	-	+
31	Sturnidae	<i>Pastor roseus</i>	Rosy starling	+	+	+
32	Sturnidae	<i>Sturnia pagodarum</i>	Brahmini starling	+	+	-
33	Sturnidae	<i>Acridotheres tristis</i>	Common myna	+	+	+
34	Upupidae	<i>Upupa epops</i>	Common hoopoe	+	-	+
35	Vangidae	<i>Tephrodornis pondicerianus</i>	Common woodshrike	+	-	-