Annexture: 1 List of Phytoplankton from Malpur dam, Baldane reservoir and Krishna Park during the two year study (October 2011- September 2013)

Sr.No	List of Phytoplankton			
	A) Bacillariophyceae (Diatoms)	**Mal.Dam**	**Bald Res**	**Kri Park**
1	*Mastoglia baltica* Grun.	*	*	*
2	*Melosira islandica* (O. Muell)	*	*	*
3	*Synedra affinis* Kuetz		*	
4	*Synedra acus* (Kuetz)	*		*
5	*Asterionella spp*	*	*	*
6	*Frustulina spp*	*	*	
7	*Diploneis subovalis* Cleve.	*	*	*
8	*Gyrosigma accuminatum* Kuetz	*	*	
9	*Gyrosigma khandeshensis* Sarode et. Kamat	*	*	*
10	*Gyrosigma dhulensis* Sarode et. Kamat	*	*	*
11	*Navicula papula* Kuetz.	*	*	*
12	*Navicula cuspidate* Kuetz.	*		
13	*Navicula rhynchocephala* Kuetz	*		*
14	*Navicula viridula* Kuetz		*	*
15	*Amphora ovalis.* Kuetz	*	*	*
16	*Pinnularia interrupta* W. Smith	*	*	
17	*Pinnularia vidarbhensis* Sarode et. Kamat	*	*	*
18	*Pinnularia maharastrensis* Sarode et. Kamat	*	*	*
19	*Rhopalodia gibba* Her O. Muell	*	*	
20	*Nedium longiceps* Grey A. Cl. V.	*	*	*
21	*Stauroneis obtuse* Lagerst. V.	*	*	*
22	*Surirella capronii* Breb.	*	*	*
23	*Surirella robusta* Ehr.		*	
24	*Surirella sabsalsa* W. Smith	*	*	*
25	*Cymbella ventricosa* Kuetz	*	*	*
26	*Cymbella gracilis* (Rabh.) Cleve	*	*	
27	*Cymbella aspera* (Ehr.) Cleve	*	*	*
28	*Gomphonema gracile* Ehr.	*	*	*
29	*Gomphonema intricatum* Kuetz	*	*	
30	*Gomphonema lanceolatum* Ehr.			*
31	*Fragilaria construens* Ehr. Grun	*	*	*
32	*Fragilaria zafarii* Sarode Kamat	*	*	*
33	*Fragilaria intermedia* Grun.	*	*	
34	*Fragilariarupens* Grun.	*	*	*
35	*Nitzschia maharastrensis* Sarode et. Kamat	*		*
36	*Nitzschia jalgaonesis* Sarode et. Kamat			*
	B) Chlorophyceae (Green algae)			
1	*Volvox sp.*	*	*	*
2	*Ulothrix fibriate* Bold	*	*	*
3	*Ulothrix aqualis* Kuetz	*	*	
4	*Microspora indica* Radhwa	*	*	*
5	*Microspora subsetece* (Kuetzing) De. Toni	*		*
6	*Cladophore sp.*	*	*	
7	*Bulbochaetae*	*		
8	*Chaetophora elegans* Roth. C.A. Agardh	*	*	*
9	*Closterium acerosum* (Schr.) Ehr.		*	*
10	*Closterium microporum* Nageli	*		*
11	*Closterium scutellum* (Schr.) Her.	*	*	
12	*Pediastrum duplex* Meyen	*	*	*
13	*Pediastrum simplex* (Meyen)	*	*	*

14	*Pediastrum tetras* (Her.) Ralf.		*	
15	*Cosmerium anatinum* Cooke	*	*	*
16	*Cosmerium subsucumis* Cooke.		*	*
17	*Staurastrum spp*	*	*	*
18	*Eudorina spp*	*		*
19	*Spirogyra hyalina* (Cleve)	*	*	*
20	*Spirogyra biformis* Jao	*	*	
21	*Merismopedia convoluta* Breb.	*		
22	*Zygnema qudrata* Jao.	*	*	
	C) Cyanophyceae (Blue green algae)	**Mal.D**	**Bald R**	**Kri P**
1	*Aphanocapsa montana* Cramer	*		*
2	*Microcystis viridis* A.Br. Lemm	*	*	*
3	*Merismopedia convoluta* Breb.	*	*	
4	*Oscillatoria limosa* (Ag)	*	*	*
5	*Oscillatoria brevis* (Kuetz) Gomont	*	*	*
6	*Oscillatoria rubescens* De. Ex. Gomont		*	
7	*Phormidium ambigum* Gomont	*	*	*
8	*Phormidium mucosum* Gandhi	*		
9	*Lyngbya limnetica* (Lemm)	*	*	*
10	*Lyngbya aestivani* Liemb ex.Gomont	*	*	*
11	*Nostoc spongiaeformae*		*	*
12	*Nostac commune* Voucher. Ex. Brunet Flav.	*		*
13	*Anabaena spiroides* Klebnn	*	*	
14	*Anabaena ambigum* Rao C. B.	*	*	*
	E) Euglenophyta			
1	*Euglena spirogyra Her.*		*	*
2	*Euglena gaumei*	*	*	
3	*Euglena acus* Ehrenb.	*		*
4	*Euglena caudata* Haben.	*	*	
5	*Phacus longicauda* Her Duj	*		*
6	*Phacus triqueter* (Her.) Duj.			*

Annexture: 2 List of Zooplankton from MD, BR and KP (Oct.2011- Sept 2013)

Sr. No.	Rotifera	Malpur Dam	Baldane Reservior	Krishna Park
1	*Brachionous caudatus* (Barrois and Daday,1894)	*	*	*
2	*Brachionous caudatus personatus* (Ahlstrom 1940)		*	*
3	*Brachionous plicatilis* (Muller, 1786)	*	*	*
4	*Brachionous bidentata* (Anderson, 1889)	*	*	*
5	*Brachionous qudridentatus* (Hermann, 1783)	*	*	*
6	*Brachionous fulcatus* (Zacharias, 1898)	*	*	*
7	*Brachionous diversicornis* (Daday, 1883)	*	*	*
8	*Brachionous forficula* (Wierzejski, 1891)	*	*	*
9	*Brachionous caliciflorus* (Pallas, 1776)	*	*	*
10	*Brachionous havanaensis* (Illinois)			*
11	*Brachionous urceolaris* (Muller, 1773)	*		
12	*Keratella cockleris* (Gosse, 1851)	*	*	*
13	*Keratella procurva* (Thorpe, 1891)		*	*
14	*Keratella tropica* (Apstein, 1907)	*		*
15	*Platyias quadricorniz* (Ehrb., 1832)	*		
16	*Lapadella patella* (Muller, 1786)	*	*	*
17	*Lapadella ovalis* (Muller, 1786)	*	*	*
18	*Lacana luna* (Muller, 1776)	*	*	*
19	*Lacana ohioensis* (Herrick, 1885)	*	*	*
20	*Monostyla bulla* (Gosse, 1851)	*	*	*
21	*Monostyla lunaris* (Ehrb., 1832)	*		
22	*Trichocera cylindrical* species	*	*	*
23	*Asplanchna priodonta* (Gosse, 1850)	*	*	
24	*Filina opaliensis* (Zach, 1898)	*	*	*
25	*Filina logesita* (Ehrb., 1834)	*		*
26	*Filina pegleri* (Hutchinson, 1964)	*	*	
27	*Testidunella mucranata* (Gosse, 1886)	*	*	*
28	*Rotaria rotatoria* (pallas,1776)		*	*
29	*Rotaria neptunis (Ehrb., 1832)*	*	*	
	Cladocera	*	*	*
1	*Diphanosoma sarsi (Richard, 1895)*	*		*
2	*Ceriodaphnia cornuta* (Sars, 1888)	*	*	
3	*Ceriodaphnia reticulate* (Jurine,1820)		*	
4	*Simocephalus exspinosus* (Koch,1841)	*		*
5	*Moina micrura* (Kurz., 1874)	*	*	
6	*Moina brachiata* (Jurine,1820)		*	*
7	*Bosmina longirostris.* (Muller, 1776)	*	*	*
8	*Microthrix spinosa* (King, 1853)	*	*	
	Cladocera	*	*	*
1	*Chydorus spp.*	*		*
2	*Alona rectangula* (Sars, 1862)	*	*	*
3	*Acroperus pulchella* (King,1853)		*	
4	*Indialona ganpati* (Petkovaski, 1966)	*		*
	Copepoda	*	*	*
1	*Allodiaptomus raoi membranigera* (Brehm,1953)	*		
2	*Rhinediaptomus indicus* (Kiefer,1936)	*	*	*
3	*Diaptmus species* (Westwood, 1836)	*		*
4	*Ectocyclops phaleratus* (Koch,1838).	*	*	*
5	*Cyclops ladakanus* (Kiefer, 1936)	*	*	*
6	*Mesocyclops hyalinus* (Rehberg, 1880)		*	*
7	*Mesocyclops leuckarti* (Claus, 1857)	*	*	
8	*Microcyclops oithonoides* (Sars,1863)	*		
9	*Microcyclops bicolor* (Sars, 1863)		*	*

	Ostracoda	*	*	*
1	*Cypris subglobosa (Sowerby, 1840)*	*	*	*
2	*Eucypris spp.*	*	*	*
3	*Standesia labiata (Hartmann)*	*	*	*
4	*Hemicypris anomala (Klie, 1938)*	*	*	
5	*Cyprinotus cingalensis (Brady,1886)*	*		*
6	*Cyprinotus incongruens (Ramdohr,1808)*		*	
7	*Stenocypris hilopi (Ferguson)*	*	*	
8	*Stenocypris major (Baird)*			*****
9	*Indiacypris dispar*	*	*	
	Total zooplanktions	**48**	**44**	**39**

Annexure- 3

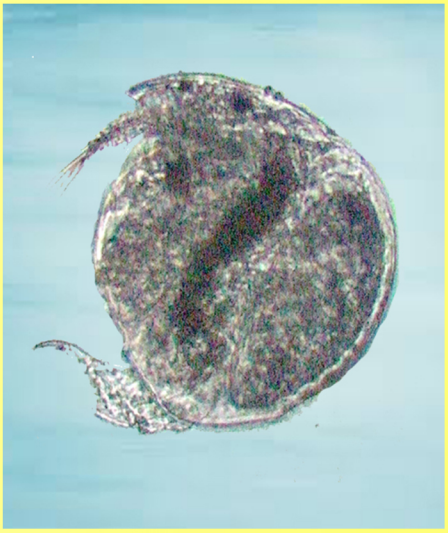
Sr. No.	Name of Species	Malpur Dam	Baldane Reservoir	Krishna Park
1	*Lymnaeaaccuminata*	*	*	*
2	*Lymnaeaaccuminata (F.) ovalis*	*		
3	*Lymnaealuteola*	*	*	*
4	*Bellamyabengalensis (F.) bengalensis*	*	*	*
5	*Bellamyabengalensis (F.) annandalai*	*	*	*
6	*Thiaralinneata*	*	*	
7	*Melanoidtuberculata*	*	*	*
8	*Indoplanorbisexustus*	*	*	*
9	*Lamellidenssavidens*		*	
10	*Lamellidenmarginalis*	*	*	*
11	*Gyraulullabiatus*	*	*	*
12	*Parreysia (Radiatula) caerulea*	*		*
13	*Parreysiacorugata*	*	*	
14	*Gabbiaorcula*	*	*	*
15	*Tarebiagranifera*	*	*	*
	Total species	**14**	**13**	**11**

Plate No. 1
Representative ZooPlanktons

Brachinus diversicornis

Brachinous faulcatus

Filinia opoliensis

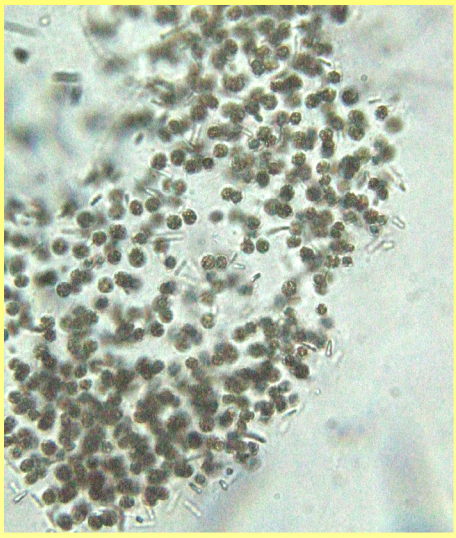


Acroperus spp.

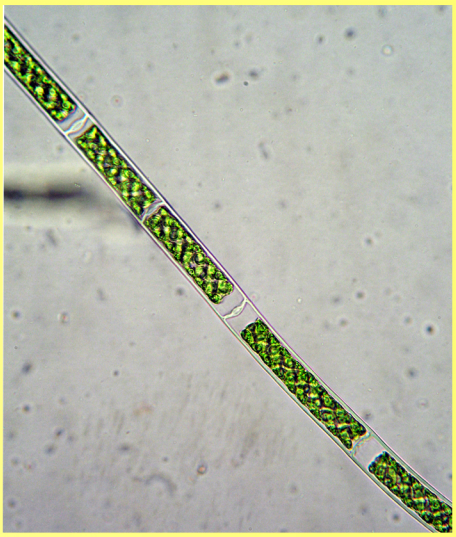
Chydorus spp

Ectocyclops phaleratus

Plate No. 2
Representative Phytoplanktons

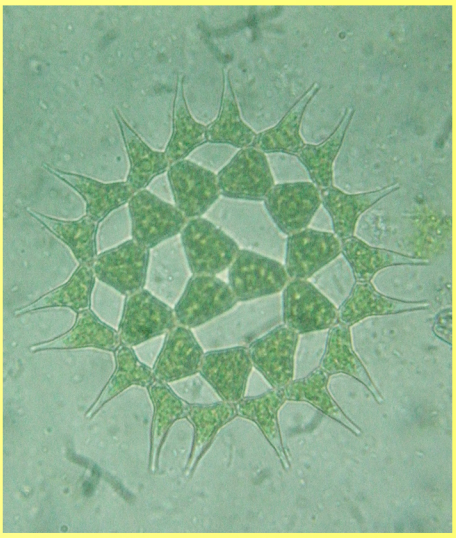


Microcystis viridis



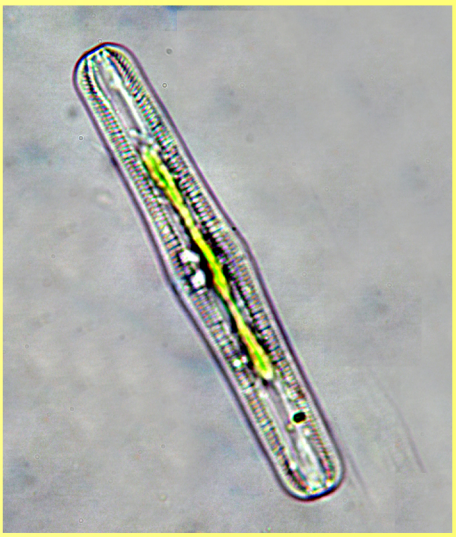
Spirogyra hyalina

Ocillatoria limosa



Pediastrum simplex

Gyrosigma accuminatum



Pinnularia vidarbhensis