

RAJASTHAN EDUCATION SOCIETY'S



R. A. ARTS, SHRI M. K. COMMERCE AND
SHRI S. R. RATHI SCIENCE MAHAVIDYALAYA,
WASHIM. (M. S.)

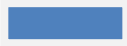

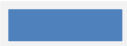



Evaluative Report Of The Department

Department of Zoology

Department of Zoology

The Self-evaluation of every department may be provided separately in about 3-4 pages, avoiding the repetition of the data.

1.	Name of the department:	Zoology
2.	Year of Establishment	1984
3.	Names of Programmes/ Courses offered (U.G., P. G. , M. Phil. ,Ph. D., Integrated Masters; Integrated Ph. D., etc.)	U.G. : B. Sc. P. G. : M. Sc. (Zoology) Ph. D. in Zoology
4.	Names of Inter disciplinary courses and the departments/units involved	
5.	Annual/semester/choice based credit system (programme wise)	B. Sc. : Semester System M. Sc. : Semester and CBCS
6.	Participation of the department in the courses offered by other departments	
7.	Courses in collaboration with other universities, industries, foreign institutions, etc.	
8.	Details of courses/programmes discontinued (if any) with reasons	

9. Number of Teaching posts

	Sanctioned	Filled
Professors	01	01
Associate Professors	00	00
Asst. Professors	03	03

10. Faculty profile with name, qualification, designation, specialization, (D. Sc./D. Litt./Ph. D./M. Phil.etc.,)

Name	Qualification	Designation	Specialization	No.ofYears of Experience	No.ofPh.D. Students guidedforthe last4years
Dr. D. S. Dabhade	Ph. D.	Professor	Fisheries	28	08
Dr. H. V. Wanjari	M. Phil., Ph. D.	Asso. Prof.	MRP	20	00
Dr. P. S. Patil	Ph. D.	Asstt. Prof.	MRP	12	00
Dr. S. D. Rathod.	M. Phil. Ph. D.	Asstt. Prof.	MRP	08	00

11. List of senior visiting faculty

1.	Dr. A. B. Chindurwar	Prof. in Zoology, Science College, Manwat. Affiliated to SRTMU, Nanded.
2	Dr. C. S. Bhovate	Prof. in Zoology, Science College, Nanded
3.	Dr. Santosh Pawar	Prof. in Zoology, Govt. Institute of Science, Nagpur.
4.	Dr. D. V. Tayade	Prof. in Zoology, Science College, Umerkhed. Affiliated to SGBAU, Amravati.
5.	Dr. Naseer Patel	Prof. in Zoology, Science College, Amalner., Affiliated to North Maharashtra University, Jalgaon.
6.	Dr. R. P. Mali	Prof. in Zollogy, Yashwant College, Nanded.
7.	Dr. R. A. Gulhane	SSKR Innani Mahavidyalaya, Karanja Lad.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Post Graduation:

	M.Sc. Sem. I		M.Sc. Sem. III		TOTAL
	T	P	T	P	
DSD	00	01	01	00	03
HVW	01	00	00	01	03
JRS	04	02	04	02	18
SGC	04	01	04	02	15
MRT	04	02	04	02	18

SDD	03	01	03	02	14
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Under Graduation:

SR.No.	THEORY	I	II	III	TOTAL	PRACT	I	II	III	TOTAL	THE + PRACT
1	DSD	2	2	2	6	DSD	6	3	3	12	18
2	HVW	0	0	1	1	HVW	6	9	6	21	22
3	PSP	2	2	0	4	PSP	6	6	6	18	22
4	SDR	0	0	2	2	SDR	6	6	6	18	20
5	MRT	0	0	1	1	MRT	0	6	0	6	7
6	SGC	0	1	0	1	SGC	3	3	0	6	7
7	JRS	0	1	0	1	JRS	6	0	0	6	7
8	NRS	1	0	0	1	NRS	6	0	0	6	7
9	ACB	1	0	0	1	ACB	3	0	3	6	7

13. Student-Teacher Ratio (programme wise): 52 : 1 in UG. And 7:1 in P. G.

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Academic Supporting Staff (CHB):

Course Level	Sanctioned	Appointed
UG	03	03
PG	04	04

Administrative : Not admissible

15. Qualifications of teaching faculty with D. Sc. /D. Litt. /Ph.D. /M. Phil. /P. G.

Name	Qualification
Permanent Teaching Staff	
Dr. D. S. Dabhade, Professor and Head,	Ph. D.
Dr. H. V. Wanjari, Associate Professor	M. Phil., Ph. D.
Dr. P. S. Patil Associate Professor	Ph. D.
Dr. S. D. Rathod Associate Professor	M. Phil., Ph. D.
Contributory (CHB) Teaching Staff.	
Ku. J. R. Somatkar	M. Sc., Ph. D.
M. R. Tandale	M. Sc., Ph. D.

Ku. S. G. Chhaba	M. Sc. NET
S. D. Deshmukh	M. Sc.
Ku. S. N. Ambhore	M. Sc.
Ku. A. C. Bolwar	M. Sc.
Ku. N. R. Sharma	M. Sc.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sr. No.	Name of the faculty	Title of the project	Duration	Minor/Major	Status	Amount Sanctioned
3	Dr. D. S. Dabhade	Reconnaissance of Zooplankton---	2013 to 2017	Major	Ongoing	9,85,700

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received UGC Sponsored MRPs.

Sr. No.	Name of the faculty	Title of the project	Duration	Minor/Major	Status	Amount Sanctioned
1	Dr. D. S. Dabhade	Reconnaissance of Zooplankton---	2013 to 2017	Major	Ongoing	9,85,700
2.	Dr. S. N. Tayade	Zooplankton diversity of Ephimeral Ponds.	2010-2012	Rajiv Gandhi Fellowship sponsored by UGC.	Completed.	
3.	Miss S. Chhaba	Live Fish Food Organisms	2015-onwards	CSIR JRF-NET.	Ongoing	

18. Research Centre/facility recognized by the University

➤ Department is recognized as Research Centre By SGBAU, Amravati.

19. Publications:

* a) Publication per faculty

Name of the Faculty	Books	Research papers published during previous five years		
		State	National	International
Dr. D. S. Dabhade	00	00	03	17
Dr. H. V. Wanjari	00	00	00	02
Dr. P. S. Patil	00	00	00	00

Dr. S. D. Rathod	00	00	00	02
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Number of papers published in peer reviewed journals (national/international) by faculty and students

Sr. No.	Name of the Faculty	Number of Publications	
		National	International
1	Dabhade and others		17
2	Wanjari and others		02
3	Patil and others		00
4	Rathod and others	02	01

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)

* Monographs

* Chapter in Books

* Books Edited

* Books with ISBN/ISSN numbers with details of publishers

* Citation Index: 17

* SNIP

* SJR

* Impact factor

* h-index: 2

20. Areas of consultancy and income generated

Sr. No.	Consultancy	Funds Generated
1.	Vermicomposting	Free of cost
2.	Fish Farmers Society	Free of cost
3.	Aquarium Fabrication and Maintenance	Free of Cost
4.	Research consultancy on microphotography and identifications	Free of Cost.

	of zooplanktons.	
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21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....Nil

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

23. Awards/Recognitions received by faculty and students

Name of the Student	Fellowship
Dr. Sachin Natthuji Tayade	Rajiv Gandhi Fellowship
Mr. Mahesh Ramchandra Tandale	Major Research Fellow
Ms. Sangita Chhaba	Junior Research Fellowship. (CSIR JRF)

24. List of eminent academicians and scientists/visitors to the department

Dr. K. M. Kulkarni	Eminent Scientist	Retd. Director, Higher Education, Pune.
Dr. Jaykiran Tidke	Academician	Pro-Vice Chancellor, SGBAU, Amravati.
Dr. Ajay Deshmukh	Academician	Registrar, SGBAU, Amravati.
Dr. S. K. Omanwar	Academician	SGBAU, Amravati.
Dr. Anil Bokil	Stakeholder	Faculty, Arthakranti Proposals. Aurangabad.
Dr. F. C. Raghuvanshi	Academician	Principal, Vidya Bharti Mahavidyalaya, Amravati.
Dr. Manekar	Academician	Principal, Govt. B. Ed College, Akola
Dr. Gopalrao Patil	Academician	President, Shahu Education, Society, Latur
Justice Munshi	Stakeholder	Chief Justice, Bombay High Court.
Justice Zaka Mohamad Aziz Huq.	Stakeholder	Chief Justice, Nagpur Bench, Bombay High Court.
Sindhutai Sapkal	Stakeholder	Socialist.

25. Seminars/Conferences/Workshops organized & the source funding a)

National

b) International

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B. Sc. Part I	150	141			56.10
B. Sc. Part II	120	120			47.56
B. Sc. Part III	84	84			89.19
M. Sc. Part I	22	21	07	14	95%
M. Sc. Part II	22	18	06	12	100%
Ph. D.	09	08	02	06	

*M=Male *F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B. Sc.	100%	00	00
M. Sc.	100%	00	00
Ph. D.	100%	00	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sr. No.	Name of the student	Examination Qualified.
1	Sangita Chhaba	NET, 2013
2	Digvijay Tonchar	NET, 2012

29. Student progression

Student progression	Against % enrolled
U. G. to P. G.	20%
P. G. to M. Phil.	00
P.G. to Ph. D.	1%
Ph. D. to Post-Doctoral	00

Employed • Campus selection • Other than campus recruitment	00
Entrepreneurship/Self-employment	1% doing Aquarium Fabrication and Maintenance

30. Details of Infrastructural Facilities

a) **Library facility:**

- Books taken as loan from the central library by the department for the instant availability of study material.
- In central library a separate reference section is established for P. G. students and researchers of the department.
- Some books of foreign authors are downloaded and made available as pdf copies.

b) **Internet Facilities for the staff and students:**

- This facility is available in the department for staff and student to implement ICT in teaching.

c) **Class rooms with ICT:**

- ICT is the regular practice of the department.
- Class room and also the laboratories are equipped with LCD projectors and screens.

d) **Laboratories:**

- Laboratories are well equipped with sophisticated equipments and also safty equipments. The highly equipped laboratories are ventilated and full of light.

Sr.No.	UG Lab.	Room No	Area(sq/ft)
1	Lab-1	54	578.28
2	Lab-2	55	632.00
3	Lab-3	56	376.04
4	Research Lab	59	1052.28
5	Museum	53 A	542.89
6	Digital Class room		1052.28

31. Number of students receiving financial assistance from college, university, government or other agencies

32. Details on student enrichment programmes (speciallectures/workshops /seminar) with external experts

33. Teaching methods adopted to improve student learning

- **Question-Answer Method:**
- **Use of ICT in teaching**
- **Participatory teaching learning**

- **Group Discussion:**
- **Brain Storming:**
- **Interactive media material:**
- **Field and Industrial visits:**
- **Case Study:**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities
Department of Zoology actively participated in ISR programmes organized by the institution.

35. SWOC analysis of the department and future plans

Strength:

- Infrastructure: Well equipped laboratories.
- Recognized Research Centre by the SGBA University. Separate sophisticated cubicles are allotted to each research scholar.
- Independent Museum is established that attract visitors to the department as a matter of their interest.
- Separate Fish Farm is available to work out fishery related practicals and projects.
- Faculties: All the faculties in the Department highly qualified and are Ph. D. Holders.
- Lecture Methods are supported with Participatory Teaching Learning Process that involves Seminars, Group Discussions, Projects, Case Studies. This has created tremendous interest of students in the subject and consequently good tradition of result.
- Weak students are identified and remedial coaching enable them to upgrade their performance in results.
- Participation in Conferences and Seminars: teachers participates in Conferences, Seminars, Workshops, Orientations, Refreshers,
- ICT Facility: is enabled for implementation in teaching. Digital Class Rooms is available. Laboratory also have LCD Projectors for the demonstrations of specimens and clippings of Dissections as the Dissections are not permitted by Biodiversity Board and UGC.
- Students of Post Graduate are sent to training centres.
- Co-curricular aspects of the department: Excursion Tours, Field Visits are arranged to study biodiversity and for Environment and Forest Sensitization.
- Students progress is monitored by test examinations and assessments.
- Department is funded two of the faculty members to carry out minor and major research projects granted by UGC. Two minor research projects were completed and one Major Research Project is ongoing. Due to this project, financial support is provided to research fellows.

As the faculties are involved in research activity, the publications of research papers is enhanced by attractive numbers.

Weakness:

- The college library has good collection of text books but still is inadequate reference book due to lack of funds government and UGC.
- Infrastructural facilities though better as compared to other nearby institutes but are insufficient due rise of strength in every successive year.
- Due to continuous internal examinations, semester examination the faculties have to concentrate on completion of syllabi in stipulated time and they ignore community, extension and consultancy.
- Professional consultancies are moderate. Department applied for innovative courses, vocational courses to UGC, but the proposals were ignored.

Opportunity:

- Jars used to preserve museum specimens are unbreakable, leak proof are prepared from the acrylic rolls and sheets in the laboratory. This practice in department can be patented.
- Research Collaborations and academic tie up are to develop.
- Student Exchange Programmes to invite foreign students.

Challenges:

- Efforts to be made to register patents on behalf of the department.

Self Evaluation of the Department:

The department is very strong with respect to its result performance, educational level upto PG and Research. The PG and Research facility is tremendous encouragements for the students in rural area because some students are at the level to abandon education as they could not afford to go metropolitan cities. The facilities of education available in the department attract students towards further education.

Student Support:

Departmental Library: Apart from the central library of the college, some of the reference books are sorted out and kept in the department so as to make them available to students at any time .. Special efforts are made to add latest text books and scientific journals to the collection. M.Sc. and research students of the department have access to the internet facilities available in department and the college library for academic purposes some of the electronic versions are enlisted below.

List of e-Books available for the reference in the department of Zoology:

1	INTRODUCTORY BIostatISTICS	CHAP T. LE Distinguished Professor of Biostatistics and Director of Biostatistics Comprehensive Cancer Center University of Minnesota
2	DNA Microarray Data Analysis	Editors Jarno Tuimala M. Minna Laine CSC, the Finnish IT center for Science
3	Encyclopedia of MOLECULAR BIOLOGY VOLUMES 1 - 4	Thomus E. C European' Molecular Biology Laboratory London, England A Wiley-Interscience Publication John Wiley & Sons, Inc.
4	Biochemistry	(2ed., 1999)(851s)Garrett R.H., Grisham C.M.
5	Genes VIII	2004 by Benjamin Lewin Published by Pearson Prentice Hall Pearson Education, Inc. Upper Saddle River, NT 07458 First Edn.)
6	Harper's Illustrated Biochemistry	a LANGE medical book twenty-sixth edition Robert K. Murray, MD, PhD Daryl K. Granner, MD

		Peter A. Mayes, PhD, DSc Victor W. Rodwell, PhD Lange Medical Books/McGraw-Hill Medical Publishing Division
7	Methods in Molecular Biology™ VOLUME 143 Methods and Protocols PROTEIN STRUCTURE PREDICTION	Edited by David M. Webster, Humana Press
8	Methods in Molecular Biology-vol. 212. Single Neucleotide Polymorphism. Methods and Protocols	by Pui Yan Kwok Humana Press Totowa, New Jersey
9	Methods in Molecular Biology™ VOLUME 193	Edited by Joe O'Connell Humana Press
10	Kuby, Immunology, Third Edition and Fourth Edition	
11	Leningers Biochemistry. 4 th Edition	
12	Handbook of Pharmaceutical Analysis	edited by Lena Ohannesian Mcneil Consumer Healthcare Company Fort Washington, Pennsylvania Antony J. Streeter The R.W. Johnson Pharmaceutical Research Institute Spring House, Pennsylvania
13	Studies On Taxonomy, Distribution, Ecology And Reproductive Potential Of Rotifers From Selected Centres In Cochin Backwater System, Kerala,	Mollyvarghese, M.Sc.
14	Methodology for Water Analysis: IAAB Publication.	
15	Taxonomic Notes On The Rotifers From India (from 1889 to 2000)	By M. V. S. S. S. Dhanapati Indian Association of Aquatic Biologists (IAAB) Publication No. 10 ISBN : 81 - 900595 - 9 -9.
16	Developmental Biology	
17	Aquatic Biology	W. T. Edmondson.

. In order to expose the students to research environment, every student is also required to complete a small research project during the M. Sc. second year of the programme

Museum:

List of papers published in Journals during 2011-12 to 2015-16

Dabhade et. al.

1. Dabhade D. S., A. S. Shinde, S. N. Tayade, M. D. Kulkarni, V. N. Lohiya (2012): A Study on Beetle Diversity in Mangarul Peer Tahasil, Dist. Washim (Maharashtra), *Multilogic in Science, An International Refereed Journal in Science, Engineering and Agriculture*, Vol. II-Issue III. PP, 45-49
 2. Dabhade D. S.(2013): Rotarian Diversity Acclimatised To A Brine Of Lonar Crater., *Proceeding; National Conference On Advances In Life Sciences: Present And Future (Ailspf-2013)*
 3. Dabhade D. S. (2013): Eutrophication, A Threat To Saline Lake In A Crater At Lonar, Maharashtra.; *Asian Journal of Contemporary Sciences*, Vol. 2 (1), pp.1-6.
 4. Dabhade D. S.(2013): Rotarian Diversity Acclimatised To A Brine Of Lonar Crater., *Proceeding; National Conference On Advances In Life Sciences: Present And Future (Ailspf-2013)*
- Dabhade D. S. (2015): Lonar Saline Lake, India-A Case Study.(ICSTS 2015).

Dr. H. V. Wanjari et. al.

1. Sawaikar K. S., A. N. Kulkarni, D. S. Dabhade And H. V. Wanjari (2012): Ichthyofaunal Diversity Of Kolhi Dam, Washim District (M.S.), *National Conf. On Biosciences*, Pp. 337-340.
2. Wanjari H. V., D. S. Dabhade (2015): Lonar Crater Lake of India: An Abundant Source of Highly Economic Important Spirulina; *ICSTS (2015)*, 2347-517X (Online)

Solanke et al.

1. Solanke M. R. and D. S. Dabhade (2016): Physico-Chemical Analysis of Upper Morna Reservoir, Medshi, District Washim, Maharashtra., *Indian Stream Research Journal* Vol. V, Issue XII ; January, 2016.

Somatkar et al.

2. Somatkar J. R. and D. S. Dabhade (2015): Record of Myxozoan Parasites Of The Genus Myxobolus From Fresh Water Fishes; *Indian Stream Research Journal* Vol. 5, Issue 7; August, 2015.
3. Somatkar J. R., D. S. Dabhade (2015): Trichodinid Ectoparasites from Fresh Water

Fishes of Washim Region of Maharashtra, India.; Bioscience Biotechnology Research Communications, Internationally Indexed Journal for Rapid Publication.

4. Somatkar J. R. and D. S. Dabhade (2016): Blood Parasites from Fresh Water Fish Garra mullya. Indian Stream Research Journal Vol.V , Issue XII ; January, 2016.
5. Somatkar J. R. and D. S. Dabhade (2016): Myxosporidian parasites of the genus Thelohanellus from different freshwater fishes of Washim, Maharashtra region., Bioscience Biotechnology Research Communications, Internationally Indexed Journal for Rapid Publication;vol. 9(1): 144-150
Tandale et al.
6. Tandale M. R. D. S. Dabhade And S. N. Tayade (2012): A Study On Physico-Chemical Parameters Of Ekburjee Reservoir, Washim, (M. S.), National Conf. On Biosciences, Pp. 348-355.
7. Tandale M. R., D.S. Dabhade (2014):Study On Physico-Chemical Parameter Of Lonar Crater India. *Bioscience Biotechnology Research Communications*: VOL. 7(1), PP. 50-16, ISSN: 0974-6455, IF- 0.645
8. Tandale M. R. And D. S. Dabhade (2016): Study on Chemical Parameter of Meteorite Impact Crater Lake Lonar, India., Indian Stream Research Journal Issue V. Vol. XII
Tayade et al.
9. Tayade, S.N. and D.S. Dabhade (2011): A checklist of Rotifers in Washim district of Maharashtra. *International Journal of Innovations in Bio-Sciences*(ISSN 2277-2367), Vol. 1(1):27-31.
10. Tayade Sachin N, Dilip S. Dabhade (2013): Population Dynamics Of Rotifers In Ephemeral Ponds; Journal Of Global Biosciences Vol. 2(4), 2013, Pp. 71-78
[Http://Mutagens.Co.In/Jgb.Html](http://Mutagens.Co.In/Jgb.Html)
11. Tayade S. N., Dabhade D. S., Ukhalkar M. N. (2014): Nesting Behaviour of Purple Sunbird, Nectarinia asiatica. J. of Global Biosciences: Vol. 3, No. 7. ISSN 2320-1355. [HTTP://MUTAGENS.CO.IN/JGB.HTML](http://MUTAGENS.CO.IN/JGB.HTML)
12. Tayade S. N., D. S. Dabhade (2015): Rotifer Communities of the Ephemeral Ponds in Washim Region of Maharashtra, India., Indian Stream Research Journal Vol. 5, Issue 11; December, 2015.

Rathod et. al.
13. Rathod S. D. (2015): Algal Diversity of Umra Shamsuddin Reservoir Washim District Maharashtra. Science Park Research Journal. Vol. 3 Issue 7.

Research Papers out of Post Graduate Research Projects:

1. A. G. Thakare (2016): Diversity Of Fresh Water Fishes From The Washim District Of Maharashtra, India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
2. Idole R. L. (2016): : Biodiversity Of Aquatic Weeds In Washim Region Of Maharashtra, India. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
3. P. D. Kabra (2016):: Quantitative Analysis Of Zooplanktons Of Fresh Water Ecosystem In Washim Town, Maharashtra, India. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
4. D. H. Bhutekar (2016):: Feeding Habit Of Catfish *Mystus Seenghala*. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
5. R. P. Soni (2016):: Comparative Analysis Of Physical Parameters Of Various Water Ecosystems In Washim. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
6. V. S. Chepe (2016):: Diversity Of Spider From Washim Region Of Vidherbha Maharashtra, India. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
7. A. M. Bali (2016):: Study On Chemical Parameters Of Different Freshwater Bodies In Washim Town Of Maharashtra. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF), Article ID ISRJ 8385, DOI: 10.9780/22307850, Laxmi Book Publication, ISSN 2230-7850.
8. S. V. Deshmukh (2016):: Qualitative Estimation Of Copepoda Communities Of Fresh Water Ecosystem In Washim Town Maharashtra, India. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
9. M. R. Kute (2016):: Qualitative Estimation Of Rotifer Species Of Fresh Water Ecosystem In Washim Town Maharashtra, India. India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
10. R. N. Khade (2016):: Morpho-Taxonomy Of New Pseudophyllidean Tapeworm *Senga* From *Mastacembelus Armatus* (Lacepede, 1800) -India. Indian Stream Research Journal Vol. 6, Issue 5; June 2016: ISSN 2230-7850. Impact Factor: 4.162(UIF)
11. Rathod P. M., M. R. Tandale and D. S. Dabhade (2016): Zooplankton Diversity and Physico-chemical Parameters of Pus Dam Washim (M. S.) India. Article ID ISRJ8511, DOI 10.9780/22307850, Laxmi Book Publication, ISSN. 22307850.

