
ANNUAL REPORT
OF THE
HAFFKINE INSTITUTE

2001 - 2004



HAFFKINE INSITUTE
PAREL, MUMBAI 400 012
INDIA

Haffkine Institute for Training, Research & Testing
Governing Council
(2001 - 2004)

President

Shri. Digvijay Khanvilkar.
Honorable Minister
Public Health, Medical Education & Drugs
Govt. of Maharashtra, Mumbai.

Vice President

Shri Eknathrao Gaikwad.
Honorable Minister of State
Public Health, Medical Education & Drugs.
Govt. of Maharashtra, Mumbai.

Member Secretary

Director
Haffkine Institute for Training, Research & Testing
Parel, Mumbai.

Members :

- Secretary,
Dept. of Medical Education & Drugs.
Mantralaya.
- Commissioner,
Food & Drugs Administration.
Govt. of Maharashtra, Mumbai.
- Director General,
Indian Council of Medical Research.
New Delhi.
- Director General of Health Services.
Govt. of Maharashtra, Mumbai.
- Vice Chancellor,
University of Mumbai.
Mumbai.
- Jt. Secretary / Deputy Secretary
Finance Department.
Govt. of Maharashtra, Mumbai.
- Director of Medical Edu. & Research
Govt. of Maharashtra.
Mumbai.
- Deputy Director of Health Services
Govt. of India, New Delhi.

Haffkine Institute for Training, Research & Testing
Research Advisory Council
(2001 - 2002)

Chairman

Dr. S.M. Sapatnekar.
Director, H.I.T.R.T., Mumbai.

Members :

- Dr. M.A. Phadke.
Director of Medical Edu. & Research,
Govt. of Maharashtra, Mumbai.
- Dr. Subhash Salunke.
Director General of Health Services.
Govt. of Maharashtra, Mumbai.
- Dr. A.S. Nanivadekar.
Consultant,
Medical Research & Communications.
Mumbai.
- Dr. K. V. Sainis.
Head, Immunology Section.
B.A.R.C., Mumbai.

Convener
Assistant Director,
H.I.T.R.T., Mumbai.

Haffkine Institute for Training, Research & Testing, Mumbai.
Executive Committee

Chairman

Dr. S. M. Sapatnekar
Director

Members

- Dr. M.G. Phatak, Assistant Director.
 - Dr. (Mrs) C.H. Pandit, Sr. Sci. Officer (CI-I)
- Convener : Shri.C.S. Chavan, CAO.*
-

Haffkine Institute for Training, Research & Testing
Research Advisory Council
(2002 - 2003)

Chairman

Dr. S.M. Sapatnekar.
Director, H.I.T.R.T., Mumbai.

Members :

- Dr. M.A. Phadke.
Director of Medical Edu. & Research,
Govt. of Maharashtra, Mumbai.
- Dr. Subhash Salunke.
Director General of Health Services.
Govt. of Maharashtra, Mumbai.
- Dr. A.S. Nanivadekar.
Consultant,
Medical Research & Communications.
Mumbai.
- Dr. K. V. Sainis.
Head, Immunology Section.
B.A.R.C., Mumbai.

Convener
Assistant Director,
H.I.T.R.T., Mumbai.

Haffkine Institute for Training, Research & Testing, Mumbai.
Executive Committee

Chairman

Dr. S. M. Sapatnekar
Director

Members

- Dr. (Mrs) C.H. Pandit, Sr. Sci. Officer.
 - Dr. (Mrs) R.A. Deshmukh, Sr. Sci. Officer
- Convener : Dr. S.S. Mahajani, CAO.*
-

Research Advisory Council
(2003 - 2004)

Chairman

Dr. S.M. Sapatnekar.
Director, H.I.T.R.T, Mumbai.

Members :

- Dr.P.P. Doke
Additional Director
Directorate of Health Services.
Govt. of Maharashtra, Mumbai.
- Dr. M.D. Gupte,
Director, National Institute of
Epidemiology (ICMR),
Chennai.
- Dr. A.S. Nanivadekar.
Consultant,
Medical Research & Communications.
Mumbai.
- Dr. S.S. Agarwal,
Director, .
A.C.T.R.E.C, Navi Mumbai.
- Dr. Dipika Mohanty,
Director,
Inst. Of Immunohaematology, Mumbai..

Convener
Dr. S.S. Mahajani
H.I.T.R.T., Mumbai.

Haffkine Institute for Training, Research & Testing, Mumbai.

Executive Committee

Chairman

Dr. S. M. Sapatnekar
Director

Members

- Dr. (Mrs) R.A. Deshmukh, Sr. Sci. Officer (I)
 - Dr. S.B. Dholam, Sr. Sci. Officer(I)
 - Shri. L.S. Patil (Sr. Sci. Officer (I)
 - Convener : Dr. S.S. Mahajani, CAO.
-

Staff of the Haffkine Institute For Training, Research & Testing 2001 - 2002

Administration

Director :

Dr. S.M. Sapatnekar.

Chief Administrative Officer :

Shri. C.S. Chavan (from: 27-4-2000)

Accounts Officer :

Shri. A.G. More

Bacteriology :

Assistant Director :

Dr. S.V. Gadre

(Reappoint. From Aug. 2001)

Senior Scientific Officer (CI - II) :

Shri. S.P. Gajbhiye.

Biochemistry :

Junior Scientific Officer :

Vacant

Chemotherapy :

Assistant Director :

Vacant

Clinical Pathology :

Senior Scientific Officer (CI - I) :

Dr.(Mrs) C.H. Pandit.

Human Pharmacology & Bioavailability:

Radiation Biology & Epidemiology

Assistant Director :

Vacant

Junior Scientific Officer :

Vacant

Immunology :

Senior Scientific Officer :

Vacant

Instrumentation Cell :

Scientific Officer :

Shri. J.V. Savant.

Library

Librarian :

Shri. V.D. Mhapsekar

Pharmacology :

Senior Scientific Officer (CI - I):

Dr. S.S. Mahajani

Statistics :

Statistician : Shri. A.S. Arekar.

Testing Unit :

Senior Scientific Officer (CI - I) :

Dr. S.B. Dholam

Scientific Officer (CI - II):

Shri. S.S. Jain.

Scientific Officer :

Shri. L.S. Patil

Shri. A.D. Kahar.

Toxicology :

Assistant Director :

Dr. M.G. Phatak.

Virology :

Senior Scientific Officer (CI - I)

Dr. (Mrs) R.A. Deshmukh.

Zoonosis :

Senior Scientific Officer (CI - I) :

Dr. B.D. Sathe.

Dr. (Mrs) V.R. Kamath.

Scientific Officer :

Shri. K.R. Pawar .

Staff of the Haffkine Institute For Training, Research & Testing 2002 - 2003

Administration

Director :

Dr. S.M. Sapatnekar.

Chief Administrative Officer :

Dr. S.S. Mahajani (from: July, 2002)

Accounts Officer :

Shri. A.G. More

Bacteriology :

Assistant Director :

Dr. S.V. Gadre

(Reappoint. From Sept. 2002)

Senior Scientific Officer (CI - II) :

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Scientific Officer :

Shri. L.S. Patil

Shri. A.D. Kahar.

Toxicology :

Assistant Director :

Vacant(from Sept. 2002)

Virology :

Senior Scientific Officer (CI - I)

Dr. (Mrs) R.A. Deshmukh.

Zoonosis :

Senior Scientific Officer (CI - I) :

Dr. B.D. Sathe.

Dr. (Mrs) V.R. Kamath.

Scientific Officer :

Shri. K.R. Pawar .

Staff of the Haffkine Institute For Training, Research & Testing 2003 - 2004

Administration

Director :

Dr. S.M. Sapatnekar.

Chief Administrative Officer :

Dr. S.S. Mahajani (from: July, 2002)

Accounts Officer :

Shri. A.G. More

Bacteriology :

Assistant Director :

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(Reappoint. From Sept. 2002)

Senior Scientific Officer (CI - II) :

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Biochemistry :

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Senior Scientific Officer (CI - I) :

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Human Pharmacology & Bioavailability:

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Junior Scientific Officer :

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Immunology :

Senior Scientific Officer :

Vacant

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Scientific Officer :

Shri. J.V. Savant.

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Librarian :

Shri. V.D. Mhapsekar

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Statistician : Shri. A.S. Arekar.

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Dr. S.B. Dholam

Scientific Officer (CI - II):

Shri. S.S. Jain.

Scientific Officer :

Shri. L.S. Patil

Shri. A.D. Kahar.

Toxicology :

Assistant Director :

Vacant(from Sept. 2002)

Virology :

Senior Scientific Officer (CI - I)

Dr. (Mrs) R.A. Deshmukh.

Zoonosis :

Senior Scientific Officer (CI - I) :

Dr. B.D. Sathe.

Dr. (Mrs) V.R. Kamath.

Scientific Officer :

Shri. K.R. Pawar .

Annual Report (2001 - 2004)

Department of Bacteriology:

Research Activities:

The department undertook a contract Research Project Sponsored by Alembic Pharmaceuticals, Baroda, on the subject of "FAGE RESISTANCE IN ERYTHROMYCIN PRODUCING STRAINS OF BACTERIA". At a total Research Grant of Rs.5,00,000/-

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2002-03	Total Number of Students registered as on 31-3-2003
	Dr. S. V. Gadre	Ph.D (Micro.)	Nil	Nil

* Maximum total number of students allowed registration as per University rules.

Research Activities :

Sponsored Research Studies :

“ Isolation of phage-resistant mutants of *Saccharopolyspora erythrae*”.

Papers presented at Seminars, Conferences & Symposia :

Nil

Research papers published in scientific journals :

Nil

Testing Activities : (1st April 2002 to 31st March 2003)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1.	Water samples	97	105150
2.	Water purification systems	17	43000
3.	Cultures supply and maintenance	61	25250
4.	Disinfectants and other anti-microbial agent testing	24	94000
5.	Miscellaneous	3	19000
	Total	202	286400

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2002 to 31st March, 2003)

A total income of RS .286400 was earned by the department during the period Of 1st April 2002 to 31st March 2003.

Staff members on roll as on 31st March, 2003 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2003)

Sr No	Name	Designation	Qualifications
1.	Dr. S. V. Gadre	Astt. Director	Ph.D. (Micro.)
2.	Mr. S. P. Gajbhaye	S.S.O.. (C.I.I)	MSc. (Micro)
3.	Mr. S. G. Bawaskar	Lab. Attendant	
4.	Dr. Vandana Gadre	Res. Associate	Ph.D. (Micro.)

Testing Activities : (1st April 2003 to 31st March 2004)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Water samples (Bacteriological examination of water sample)	55	53600 /-
2	Culture supply (Maintenance, preservation and supply)	54	16050 /-
3	Water purifiers of all types(Anti-bacterial efficacy and retention of bacteria by water purifiers)	30	54000 /-
4.	Disinfectant (Anti-microbial efficacy testing of various disinfectant samples)	46	167000 /-
5	Miscellaneous (sterility testing, Lyophilization, water storage tank, microbiological examination of food samples etc.	16	80700 /-
		211	3,71,350 /-

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2003 to 31st March, 2004)

A total income of Rs. 3,71,350 /- was earned by the department during the period Of 1st April 2003 to 31st March 2004.

Staff members on roll as on 31st March, 2004 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2004)

Sr No	Name	Designation	Qualifications
1	Shri. S. P.Gajbhiye	Senior Scientific Officer – CL. I	M Sc. (Microbiology)
2	Shri. Sunil G. Bavakar	Lab. Attendant	IX passed
3	Shri. Shishupal G. Kamle	Lab. Attendant	S. S. C.

Department of Biochemistry : (2001-2002)

Research Activities :

Phytochemical and biological evaluation of selected indigenous plants.

- (i) Isolation and characterization of bioactive compounds from indigenous plants.
- (ii) Development of mouse model for malaria and related biochemical studies.

Sponsored Research Studies : Nil

Papers presented at Seminars, Conferences & Symposia :

Dr. R. Y. Ambaye delivered a lecture under UDCT Golden Jubilee Fellowship on "Diet, Nutrition and Cancer" at UDCT on 16th February 2002.

Research papers published in scientific journals:

1. Ambaye RY, Vahanwala SJ, Rane JB and Golatkar SG. Overview of Hepatitis B: (Review Article) , Indian Drugs. 39(1):1-8 (2002).

Organization of Scientific Seminar / Symposia / Conferences : Nil.

Testing Activities :

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1.	Blood sugar	31	2170 -
2.	Urinary calculi	79	5925 -

8095

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2001 to 31st March, 2002)

A total income of Rs . 8095/- was earned by the department during the period Of 1st April 2001 to 31st March 2002 through its laboratory testing services.

Staff members on roll as on 31st March, 2002 :

The department had following scientific officers, technical and non-technical staff and Research Fellows on its roll on 31st March, 2002)

Sr No	Name	Designation	Qualifications
1.	Dr. R. Y. Ambaye	Visiting Scientist & Officer-in-charge	M.Sc; Ph.D
2.	Ms. S. G. Golatkar	Sr. Res. Fellow	M.Sc.
3.	Mr. A. G. Jadhav	Jr. Tech. Asstt.	Non S.S.C
4.	Mr. S. J. Rane	Lab Attendent	Non S.S.C

Any Other Special Achievements, Activities :

Dr. R. Y. Ambaye was selected as "Golden Jubilee visiting Fellow" for the year 2001-2002 at UDCT (Autonomous), University of Mumbai (Sept 2001).

Department of Biochemistry : (2002-2003)

On retirement of Dr. R.Y. Ambaye, visiting Scientist in April 2002, the department has been merged in the department of Clinical Pathology.

Department of Chemotherapy: (2001-2004)

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject For which Recognized by the University of Mumbai	Total Intake Capacity* 2001-02	Total Number of Students registered as on 31-3-2002

1	Dr. Anil Shridharao Bobade	M. Sc. (Organic Chemistry)	10	Nil
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* Maximum total number of students allowed registration as per University rules.

List of students completing Post-Graduate studies and obtaining degrees of the Mumbai University, during the period 2001 - 2002. : NIL.

Research Activities : (1st April 2001 to 31st March 2004)

Post-Graduate Students' Research projects : Nil

Sponsored Research Studies : Nil

Papers presented at Seminars, Conferences & Symposia : Nil

Research papers published in scientific journals :

1. A.S. Bobade, Sharvani L. Vingkar and Khadse B.G. : Synthesis and antimicrobial activity of 3-2 (alkyl/aryl, 4- substituted thiazolo) -6-fluorocinnoline-4-ones. Indian Drugs , Vol. 38 (7) : 347- 350 (2001) .
2. A.S. Bobade, Jaya John and Barsu G. Khadse : Synthesis and antimicrobial activity of 2,4- disubstituted thiazole derivatives containing 1,2,4 - triazole ring system. Indian Journal of Heterocyclic Chemistry, Vol. 10 : 295 - 298 (2001).
3. A.S. Bobade, Sharvani L. Vingkar and Khadse B.G. : Synthesis and antimicrobial activity of 6 - chlorocinnolino thiazoles. indian journal of heterocyclic chemistry, Vol. 11 : 35 - 38 (2001).
4. A.S. Bobade, Sandep D. Paranjape and Barsu G. Khadse Synthesis and evaluation of new triazolobenzothiazole derivatives as potential anti-tubercular agents. Drug Research, Vol. 51(II) : 916-919 (2001) .
5. Tushar N. Lokhande, Bharati A. Nadkarni and Barsu G. Khadse : Synthesis of n-akyl /aryl / heteroaryl - 4- [4' - (4"-chlorophenoxy) -3' chloroanilino] succinimides as antimicrobiaol and antifungal agents. Iindian Journal of Heterocyclic Chemistry, Vol. 11 : 81 - 82 (2001) .

Staff members on roll as on 31st March, 2004 :

The following scientific officers, technical and non-technical staff and Research Fellows were on the roll of the department on 31st March, 2002)

Sr No	Name	Designation	Qualifications
1.	Dr. A.S. Bobade	Senior Technical Assistant	M.Sc. Ph. D., DMLT
2.	Mrs. A.R. Sawant	Typist	Matric
3	Mr. D.R. Dive	Jr. Tech. Assistant	Non-Matric
4	Mr. L.K. Bhagwat	Lab. Assistant	Non - Matric
5	Mr. P.D. Andhere	Lab. Assistant	Matric
6	Mr. A.A. Lade	Attendant	Non-Matric
7.	Mr. V.G. Arulekar	Attendant	Non-Matric

Research papers published in scientific journals :

1. R. V. Chambhare , A. S. Bobade & B. G. Khadse
"Synthesis of Novel 3-N [(substituted aryl/heteroaryl) - Methylene] - imino-2-methyl-5-thienyl-thieno [2,3-d] pyrimidin-4-(3-H) ones as possible antimicrobial agents."
Indian Journal of Heterocyclic Chemistry 12 page 67-68 (July -Sept. 2002)
2. R. V. Chambhare , A. S. Bobade & B. G. Khadse & R.H. Bahekar
"Synthesis and preliminary evaluation of some N-[5-(2-furanyl)-2-methyl-4-oxo-4H-thieno [2,3-d] pyrimidin -3-yl carboxamide and 3 - substituted -5- (2-furanyl)-2-methyl-3H-thieno [2,3-d] pyrimidin -4- ones as antimicrobial agents".
European Journal of Medicinal Chemistry 38 (1) page 89 - 100 (January 2003)
3. Lokhande T.N., A. S. Bobade & B. G. Khadse
"Synthesis of 4- (pyrrolidin aniline) -N-aryl/substituted aryl and heteroaryl

PAPERS PRESENTED IN CONFERENCES FROM 1ST APRIL 2002 TO 31ST MARCH 2003.

- I Lokhande T.N., Kulkarni Y.P., A. S. Bobade & B. G. Khadse
"Synthesis of 3,6-disubstituted-1,2, 4-triazolo [3, 4-b] [3,3,4] thiadiazoles as
Antiinfective agents."
Presented at 54th Indian Pharmaceutical Congress held at Pune on 13th -15th December 2002.

Department of Clinical Pathology:

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject For which Recognized by the University of Mumbai	Total Intake Capacity* 2001-02	Total Number of Students registered as on 31-3-2002
1.	DR.(MRS) C.H.PANDIT	M. Sc. (Applied Biology)	10	NIL

* Maximum total number of students allowed registration as per University rules.

List of students completing Post-Graduate studies and obtaining degrees of the Mumbai University, during the period 2001 - 2002 : NIL..

Research Activities : (1st April 2001 to 31st March 2002)

Post-Graduate Students' Research projects : Nil.

Sponsored Research Studies : Nil .

Papers presented at Seminars, Conferences & Symposia : Nil.

Research papers published in scientific journals : Nil.

Organization of Scientific Seminar / Symposia / Conferences : Nil.

Testing Activities :

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Bacteriology	757	77,700 = 00
2	Clinical Pathology	67	2,445 = 00
3	Compound Testing	22	10,100 = 00
4	Haematology	167	3,250 = 00
5	Histopathology	370	1,31,700 = 00
6	Serology	444	44,400 = 00
	TOTAL	1827	

Total Income from Testing & Sponsored Research Activities :

A total income of Rs . 2,69,595 = 00 was earned by the department through laboratory testing services offered during the period Of 1st April 2001 to 31st March 2002.

Staff members on roll as on 31st March, 2002 :

(Following staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll of the department on 31st March, 2002)

Sr No	Name	Designation	Qualifications
1	Dr.(Mrs) C.H.Pandit	S.S.O. I	M.D.
2	Ms.Sushila Menon	S.T.A.	M.Sc.
3	Dr.S.A. Athlekar	S.T.A.	Ph.D.
4	Mr.S.B.Hatle	J.T.A.	S.S.C.
5	Mr.R.S.Khochare	LAB.ASSISTANT	S.S.C.
6	Mr.S.G.Chavan	ATTENDANT	NON-MATRIC

7	Mr.R.T.Bire	ATTENDANT	NON-MATRIC
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Any Other Special Achievements, Activities :

The department was involved in following activities of the Institute :

1. Plague surveillance.
2. Malaria survey in high and low incidence populations.
3. Survey of Bacterial diarrhoeal diseases in and around Mumbai.
4. Laboratory investigations for "Anthrax" in suspect powders referred to the Institute.
5. Leptospira epidemiology.

Annual Report (2002 - 2003)

(Period of Reporting: 1st April 2002 to 31st March 2003.)

Department of Clinical pathology:

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2002-03	Total Number of Students registered as on 31-3-2003
1	Dr. C. H. Pandit	Applied Biology	10	4

* Maximum total number of students allowed registration as per University rules.

Research Activities : (1st April 2002 to 31st March 2003)

Post-Graduate Students Research projects:

- Pallavi A Telang

Studies of Antibacterial activity of some selected flowers.

- Suryaji T Jadhav

Evaluation of some indigenous plant extract for possible insecticidal activity against vector of Filariasis.

- Shashank S. Adsule

Animalarial activity of plant extracts of *Asteraceae* species.

- Mangesh S.Chorge.

Evaluation of larvicidal activity of selected plant extract against *Aedes aegypti* larvae.

Sponsored Research Studies:

Nil

Papers presented at Seminars, Conferences & Symposia :

1 Dr. (Mrs.) C.H. Pandit

“A study of opportunistic infections in H.I.V. positive – AIDS patients in Mumbai “

Research –poster presented in XXVI Annual congress of India Association of Medical Microbiologist Nov. 2002, Bangalore.

2 Dr. (Mrs.) C.H. Pandit

“The Resurgence of Malaria in and around Mumbai city ”

Research paper, presented in Medical entomology conference, Jan 2003, Bhopal.

Research papers published in scientific journals:

1 “The Resurgence of Malaria in and around Mumbai city ” C.H. Pandit, The Annuals of Medical Entomology, Vol –11-p.p.32 (2003)

Organization of Scientific Seminar / Symposia / Conferences

During the year (2002 - 2003) , the department organized following Seminars / Symposia / Conferences :

1. World Environmental Day Seminar

Environment and birds, insects, fishes; Jan 2002, Haffkine Institute. Mumbai.

Testing Activities : (1st April 2002 to 31st March 2003)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Histopathology	230	1,15,000
2	Clinical Pathology	172	10,320
3	Bacteriology	568	56,800
4	Serology	436	43,600
5	Drug Testing	50	10,200
	TOTAL	1456	2,35,920

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2002 to 31st March 2003)

A total income of Rs. 2,35,920 was earned by the department during the period Of 1st April 2002 to 31st March 2003.

Staff members on roll as on 31st March, 2003 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March 2003)

Sr No	Name	Designation	Qualifications
1	Dr.(Mrs) C.H.Pandit	S.S.O.class I	M.D.
2	Dr.S.V.Athlekar	S.T.A	Ph.D
3	Mr. R.S.Khochare	Assistant	S.S.C
4	Mr.L.P.Bhagwat	J.T.A	Non-matric

5	Mr.R.T.Bire	Assistant	Non-matric
6	Mr.S.G.Chavan	Attendant	Non-matric
7	Ms.Pallavi Telang	Research fellow	B.Sc
8	Mr.Shashank Adsule	Research fellow	B.Sc
9	Mr. Suryaji Jadhav	Research fellow	B.Sc
10	Mr.Mangesh Chorge	Research fellow	B.Sc

Annual Report (2003 - 2004)

(Period of Reporting: 1st April 2003 to 31st March 2004.)

Department of Clinical pathology & Biochemistry:

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2002-03	Total Number of Students registered as on 31-3-2003
1	Dr. C.H. Pandit	Applied biology	10	4

* Maximum total number of students allowed registration as per University rules.

Departmental training programs:

- Annual Biotechnology summer training Programme, Haffkine June 2003 & April 2004.

- “Antimicrobial & Antifungal activities of drugs” training Programme for a Ph.D student of Jhaveri college, Andheri, Mumbai. April 2004

Research Activities : (1st April 2003 to 31st March 2004)

Post-Graduate Students' Research projects:

- Studies of Antibacterial activity of some selected flowers.
- Evaluation of some indigenous plants extract for possible insecticidal activity against vector Filariasis
- Antimalarial activity of plant extracts of Asteraceae species.
- Evaluation of larvicidal activity of selected plant extract against Aedes aegypti larvae

Departmental Research:

- DNA extraction from leaves of Allum cepa plant.
- Evaluations of citrus fruits peel oil for possible larvicidal activity.
- “Determination of beta amylase activity in germinating phase of monocotyledons”. & “Determination of starch content in roots & tubers” two projects given to M.Sc biotech students.

Sponsored Research Studies: nil

Papers presented at Seminars, Conferences & Symposia:

- “ Evaluation of larvicidal properties of Annona squamosa leaves extract against Aedes aegypti larvae” M. S. Chorge, Dr. Pandit, Dr. Sathe.
Research paper presented in 27th national conference of Indian Association of Medical Microbiologist (IAMM) held in Nov 2003 at Mumbai.

- “Leptospirosis – a recent epidemic” a lecture presented in the 3rd Annual workshop of Maharashtra Institute, Mumbai. Feb 2004.
Dr. C.H. Pandit.
- “The truth about AIDS” A lecture presented in the Netaji Subhash Institute, Mumbai, March 2004.

Research papers published in scientific journals: nil

Organization of Scientific Seminar / Symposia / Conferences

Attended:

➤ **Seminar:**

“Leprosy & Tuberculosis” by Bombay Leprosy projects, June 2004, Mumbai.

➤ **Conference attended:**

“First update in Lipids” by P. D. Hinduja Hospital Mumbai, April 2004.

Testing Activities : (1st April 2002 to 31st March 2003)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Histopathology	201	10,500/-
2	Clinical pathology	63	935/-
3	Bacteriology	606	61,100 -
4	Serology	213	22,100 -
5	Drug testing	18	10,750 -
6	Blood sugar	192	13,440 -
7	Urinary Calculi	32	2400/-
	Total		Rs.1, 21,385/-

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2003 to 31st March, 2004)

A total income of Rs . _1,21,385/= was earned by the department during the period Of 1st April 2003 to 31st March 2004.

Staff members on roll as on 31st March, 2004 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2004)

Sr No	Name	Designation	Qualifications
1	Dr. C.H.Pandit	SSO CL-I	M.D.
2	Ms.Pallavi S. Shirodkar	SSO CL-I	M.Sc
3	Dr. S.V. Athlekar	S.T.A	Ph.D
4	Mr. R.S.Kochare	Assistant	S.S.C
5	Mr. L. P. Bhagwat	J.T.A.	NON MATRIC
6	Mr. R.T.Bire	Assistant	NON MATRIC
7	Mr. S.G.Chavan	Attendant	NON MATRIC
8	Mr. S. Rane	Attendant	NON MATRIC
9	Ms. Pallavi Telang	J.R.F.	B.Sc
10	Mr.Shashank Adsule	J.R.F.	B.Sc
11	Mr. Suryaji Jadhav	J.R.F.	B.Sc
12	Mr. Mangesh Chorge	J.R.F.	B.Sc

Any Other Special Achievements, Activities :

Hostel rules were drafted in March 2004.

Department of Toxicology :

The department of Toxicology is essentially a "Testing" laboratory undertaking toxicological testing on drugs, cosmetics, pesticides and other chemicals and products referred to it for such studies.

The department does not undertake any training or research activities.

The department carried out following toxicological studies during the year 2001 - 2002.

S.NO	Nature of the sample tested.	No of Samples Tested.	Toxicity Parameters Studied.	No of tests performed	Testing charges Earned . Rs.
1	Drugs & related products.	3	Oral LD50 in mice	3	60,000/-
		1	Dermal LD 50 in Rabbits.	1	50,000/-
		4	Primary Skin Irritation in Rabbits.	4	40,000/-
		3	Mucous membrane Irritation in Rabbits.	2	20,000/-
2	Industrial Chemicals.	1	Oral LD 50 in mice	2	40,000/-
		1	Oral LD 50 in Rats.	1	50,000/-
		1	LC 50 in Fish.	1	5,000/-
		1	Primary Skin Irritation in Rabbits	1	10,000/-
		1	Mucous Membrane Irritation in Rabbits.	1	10,000/-

2,85,000

Total Income from Testing & Sponsored Research Activities :

A total income of Rs . 2,85,000 = 00 was earned by the department through laboratory testing services offered during the period Of 1st April 2001 to 31st March 2002.

Staff members on roll as on 31st March, 2002 :

(Following staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll of the department on 31st March, 2002)

Sr No	Name	Designation	Qualifications
1	Dr. M.G. Phatak	Assistant Director	M.Sc., Ph.D.
2	Mr. A.G. Mitra	S.T.A.	M.Sc.
3	Mr. S.B. Tambe	Lab. Attnd.	--
4	Mr. M.M. Gaonkar	Animal Attnd	--

2002-2004

After the retirement of Assistant Director, the department was merged in the department of Pharmacology. The department carried out only one Toxicity Study during this period. Earning Rs.40,000/- as Testing Charges.

Testing Unit :

The "Testing Unit" of the Institute is also essentially a "testing" laboratory offering chemical and microbiological testing services. The laboratories of this unit hold a charter of the department of State Excise for undertaking testing of Indian Made Foreign Liquor (IMFL) and Country liquor samples collected by the department for chemical testing. The laboratories of the department are also approved by the Food and Drugs Administration of the State of Maharashtra for undertaking testing of drugs and cosmetics.

The unit carried out following laboratory testing activities during the year 2001 - 2002.

Testing Activities :

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1.	Indian made foreign liquor (IMFL)	1640	
2.	Beer	2225	
3.	Toddy	3835	
4.	Country liquor cl-i	10342	15,51,300/-
5.	Country liquor cl-iii	2196	4,39,200/-
6.	Denaturants. o.d.s., s.d.s. etc.	2609	7,82,700/-
7.	Other samples	50	45,000/-

Total Income from Testing Activities :

A total income of Rs .28,18,200/- was earned by the department through its laboratory testing services, during the period Of 1st April 2001 to 31st March 2002.

Staff members on roll as on 31st March, 2002 :

The following staff members including scientific officers, technical and non-technical staff and Research Fellows were on the roll of the department, on 31st March, 2002)

Sr No	Name	Designation	Qualifications
1.	Dr. Satish B. Dholam	scientific officer cl - i	M.Sc., Ph.D.
2.	Mr. Shripal S. Jain	scientific officer cl - ii	M. Pharm.
3.	Mr. Ambulal P. Kahar	scientific officer cl - ii	B. Sc.
4.	Mr. L. S. Patil	scientific officer cl - ii	M. Sc.
5.	Mrs. U. A. Sonurlikar	senior technical assistant	M. Sc.
6.	Mrs. N. J. Kher	senior technical assistant	M. Sc.
7.	Dr. (Miss) M. L. Ramaiya	senior technical assistant	M. Sc, Ph. D.
8.	Mrs. S. L. Patil	senior technical assistant	B. Sc.
9.	Mr. V. T. Kegade	assistant superintendent	
10.	Mr. B. B. Labde	Clerk	
11.	Mr. G. R. Palekar	lab. assistant	
12.	Mr. S. B. Sawant	lab. assistant	
13.	Mr. J. S. Dalvi	lab. assistant	
14.	Mr. B. K. Jadhav	lab. attendant	
15.	Mr. S. B. Khaire	lab. attendant	
16.	Mr. S. L. Kulal	lab. attendant	
17.	Mr. S. V. Kegade	lab. attendant	

Testing Activities : (1st April 2002 to 31st March 2003)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
		1736	NIL

1.	BEER	2030	NIL
2.	TODDY	3884	NIL
3.	COUNTRY LIQUOR CL-I	10,888	Rs.16,33,200
4.	COUNTRY LIQUOR CL-III	2511	Rs.5,02,200
5.	DENATURANTS, O.D.S., S.D.S., FRENCH POLISH ETC.	2827	Rs.8,48,100
6.	OTHER DRUGS & SAMPLES	38	Rs.22,000
7.	TOTAL	23,914	Rs.30,05,500

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2002 to 31st March, 2003)

A total income of Rs . 30,05,500 was earned by the department during the period Of 1st April 2002 to 31st March 2003.

Staff members on roll as on 31st March, 2003 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2003)

Sr No	Name	Designation	Qualifications
1.	Dr. S. B. Dholam	Scientific Officer Cl.-I	M. Sc., PhD
2.	Mr. L. S. Patil	Scientific Officer Cl.-I	M. Sc.
3.	Mr. S. S. Jain	Scientific Officer Cl.-II	M. Pharm.
4.	Mr. A. S. Arekar	Scientific Officer Cl.-II	M. Sc.
5.	Mr. A. P. Kahar	Scientific Officer Cl.-II	B. Sc.
6.	Mrs. U. A. Sonurlikar	Senior Technical Assistant	M. Sc.
7.	Mrs. N. J. Kher	Senior Technical Assistant	M. Sc.
8.	Dr. (Miss) M. L. Ramaiya	Senior Technical Assistant	M. Sc., PhD.
9.	Mrs. S. L. Patil	Senior Technical Assistant	B. Sc.
10.	Mr. V. T. Kegade	Assistant Superintendent	
11.	Mr. B. B. Labade	Clerk - Typist	
12.	Mr. G. R. Palekar	Lab. Assistant	

13.	Mr. S. B. Sawant	Lab. Assistant	
14.	Mr. J. S. Dalvi	Lab. Assistant	
15.	Mr. Satyawar Shinde.	Lab. Assistant	
16.	Mr. S. L. Kulal	Lab. Assistant	
17.	Mr. B. K. Jadhav	Lab. Attendant	
18.	Mr. D. T. Jadhav	Lab. Attendant	
19.	Mr. D. T. Kadam	Lab. Attendant	
20.	Mr. S. B. Khaire.	Lab. Attendant	
21.	Mr. S. V. Kegade	Lab. Attendant	

Testing Activities : (1st April 2003 to 31st March 2004)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Indian Made Foreign Liquor (IMFL)	1914	-----
2	Beer	2084	-----
3	Toddy	3673	-----
4	Country Liquor (CL – I), Manufacturer's Sample	11,163	16,74,450
5	Denaturants (TDL)	3470	10,41,000
6	Country Liquor (CL – III), Retailer's Sample	2900	5,80,000
7	Other Samples	24	17,000
	TOTAL	25,228	33,12,450

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2003 to 31st March, 2004)

A total income of **Rs. 33,12,450** was earned by the department during the period Of 1st April 2003 to 31st March 2004.

Staff members on roll as on 31st March, 2004 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2004)

Sr No	Name	Designation	Qualifications
1	Dr. S. B. Dholam	Sr. Scientific Officer - I	M. Sc., Ph. D.
2	Mr. L. S. Patil	Sr. Scientific Officer - I	M. Sc.
3	Mr. S. S. Jain	Scientific Officer - II	M. Pharm.
4	Mr. A. S. Arekar	Scientific Officer - II	M. Sc.
5	Mr. A. P. Kahar	Scientific Officer - II	B. Sc.
6	Mrs. U. A. Sonurlikar	Sr. Technical Assistant	M. Sc.
7	Mrs. N. J. Kher	Sr. Technical Assistant	M. Sc.
8	Dr. M. L. Ramaiya	Sr. Technical Assistant	M. Sc., Ph. D.
9	Mrs. S. L. Patil	Sr. Technical Assistant	B. Sc.
10	Mr. V. T. Kegade	Assistant. Office Superintendent	S. S. C.
11	Mr. B. B. Labade	Clerk / Typist	S. S. C.
12	Mr. G. R. Palekar	Laboratory Assistant	S. S. C.
13	Mr. S. B. Sawant	Laboratory Assistant	B. A.
14	Mr. J. S. Dalvi	Laboratory Assistant	12 th Std.
15	Mr. S. L. Kulal	Laboratory Assistant	12 th Std.
16	Mr. B. K. Jadhav	Laboratory Attendent	9 th Std.
17	Mr. S. B. Khaire	Laboratory Attendent	9 th Std.
19	Mr. S. K. Kadam	Laboratory Attendent	8 th Std.

Department of Virology:

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2001-02	Total Number of Students registered as on 31-3-2002
1.	Dr. (Mrs.) R.A.Deshmukh	M.Sc. and Ph.D., Microbiology	10	4

* Maximum total number of students allowed registration as per University rules.

The Department conducted the **Annual Lecture and Practical Course in Virology** for the M.Sc., M. Phil. and M.D. students of the University of Mumbai.

List of students completing Post-Graduate studies and obtaining degrees of the Mumbai University, during the period 2001 - 2002.

Sr. No	Name of the Student & (Guiding Teacher)	Degree Subject (Year of Passing)	Title of Thesis
1.	Ms. Anuradha Kirtikar (Dr. Mrs. R.A.Deshmukh)	MSc. (Micro.) 2001	Study of Rotaviral diarrhoea in pediatric patients
2.	Ms. Meghna Udgire (Dr. Mrs. R.A.Deshmukh)	MSc. (Micro.) 2001	Study of opportunistic infections in HIV infected patients

Research Activities: (1st April 2001 to 31st March 2002)

Post-Graduate Students' Research projects:

1. Preparation and purification of Equine Rabies Immunoglobulin (ERIG).

2. Purification and application of Lipoarabinomannan antigen as a diagnostic tool and its comparison with PCR, BACTEC, and conventional methods for diagnosis of tuberculosis.
3. Detection, Estimation and Correlation Of Cytokine-mRNA (TNF- α , IFN- γ , IL-2, IL-4, IL-6, IL-10) In HIV infected patients.
4. Study of erythropoietin and its correlation with anemia in HIV/AIDS patients
5. Indigenous Production and Application of Recombinant Human interferon alpha (rhIFN- α).

Sponsored Research Studies:

1. **Testing of purified extract of *Phyllanthus amarus*, for its anti-Hepatitis B in-vitro activity**, funded by Amadeus Biotech and Pharmaceuticals (formerly Rallis India Ltd.)
Funds received: Rs. 4,78,000/- (Rs. four lakhs seventy eight thousand only)
2. **Clinical trials of Purified Duck Embryo Vaccine (PDEV) for Rabies, in pre-exposure and post-exposure cases**, sponsored by Cadila Healthcare Limited, Ahmedabad.
Funds received: Rs. 18,33,760/- (Rs. Eighteen lakhs thirty three thousand seven hundred sixty only)
3. **Validation of tissue culture confirmation assay procedures and validation of virus proficiency panel**, as a pre requisite for carrying out laboratory study for the clinical trials for Influenza vaccine, manufactured by Wyeth - Lederle.
Funds received: Rs. 12,17,750/- (Rs. Twelve lakhs seventeen thousand seven hundred fifty only)

Papers presented at Seminars, Conferences & Symposia:

1. M. Phiske, S. Amladi, R. Deshmukh, H. Jerajani. Rapid diagnostic tests for genital Herpes: 30th National Conference Of Dermatologists, Venereologists and Leprologists, Cochin, Kerala, (January 24-27, 2002)
2. Deshmukh R A and Sapatnekar S M. Recovery from Rabies Encephalitis in A Boy Partially Vaccinated With PCEC (Rabipur): Laboratory Study. (Abstract: 17.001), 10th International Congress on Infectious Diseases, Singapore. March 11 - 14, 2002.
3. Deshmukh R A and Sapatnekar S M. Correlation Of Total Anergy To Recall Antigens And Mortality In HIV Seropositive Hospitalized Pulmonary Tuberculosis Patients. (Abstract: 38.001), 10th International Congress on Infectious Diseases, Singapore. March 11 - 14. 2002.
4. M Biasin, S Rossi, D Trabattoni, M Saresella, P Ferrante, G Rizzardini, R Deshmukh, A Deshpande, M Clerici. Similar Degrees Of Immune Activation Are Present In Geographically Diverse Areas Of The World: Immunological Analyses In HIV Infected Individuals From Mumbai (India) And Contou (Republic of Benin) ECEAR 2002, Genoa Italy (June 8-11, 2002).
5. M Biasin, S Rossi, D Trabattoni, M Saresella, P Ferrante, G Rizzardini, R Deshmukh, A Deshpande, M Clerici. Similar Degrees Of Immune Activation Are Present In Geographically Diverse Areas Of The World Immunological Analyses In HIV Infected

Individuals From Mumbai (India) And Contou (Republic of Benin) XIV International AIDS conference 2002 Barcelona (July 7-11, 2002)

Research papers published in scientific journals:

1. Khaparde S.D. and R.A. Deshmukh. Report on National Annual Sentinel Surveillance for HIV infection in the state of Maharashtra. 2001, 1-52. For National AIDS Control Organisation and National Institute of Family Welfare and Health, New Delhi.
2. Kulkarni Viraj M, Alaka Deshpande, Deshmukh R A. Determination Of HIV Seroprevalence In Pulmonary Tuberculosis Patients And Study Of Their Cellular Responses To Recall Antigens, Journal International Medical Sciences Academy 2001: 14:4; 180-185.
3. R.A.Deshmukh. Universal Biosafety Precautions, Haffkine MediNews, Issue 6, Jan 2002.

Organization of Scientific Seminars / Symposia / Conferences

During the year (2001 - 2002), the department organized following Seminars / Symposia/ Conferences:

Seminar / Symposium	Date	Speaker/s	Designation	Topics
Tuberculosis Update	23/03/2001	Dr. Camilla Rodrigues	Microbiologist, Hinduja Hospital	Recent trends in diagnosis of tuberculosis
		Dr. Ashok Mahashur	Chest Physician, Hinduja Hospital	Newer developments in treatment of tuberculosis
		Dr. Zarir Udawadia	Physician	Tackling the crisis of MDR tuberculosis
		Dr. Ranjana Deshmukh	Head, Department of Virology, Haffkine Institute	Role of cytokines in morbidity and mortality due to tuberculosis
		Dr. S. Sapatnekar	Director, Haffkine Institute	Tuberculosis: Agenda for the future

Marathi
Rajbhasha Din

01/05/2001

Mr. Madhukar
Bhave
Dr. Suresh
Nadkarni

Chief Editor,
Lokmat

Chief Guest

*"Vignyanat
Marathi
Bhasheche
Sthan"*

Dr. Mangala
Athlekar

Prof. of Marathi,
Wilson College

*"Gelya
Shambhar
varshat amhi
striyani kay
milavile?"*

Dr. Suhasini
Kirtikar

Prof. of Marathi,
K C College

*"Sant
Vangmayachi
shikvan"*

Dr. Prabha
Ganorkar and
Dr. Vasant Abaji
Dahake

Professors of
Marathi,
Elphinstone
College

*"1960 nantarchi
kavita: vaachan
va vivaran"*

Dr. Ranjana
Deshmukh and
Dr. Chaya Pandit

Head
Department Of
Virology and
Clin. Pathology

Panel Discussion
on HIV/AIDS,
and
immunisation

Symposium on
Recurrent
Diseases :
Malaria,
Leptospirosis,
Viral
Hemorrhagic
Fevers

10/08/2001

Dr. P.P. Doke

Asst. Director,
DHS

Malaria Scenario
Today

Dr. Priti Mehta

Head, Dept. Of
Microbiology,
KEM Hospital
Head, Dept. of
Microbiology,
B. J. Medical
College

Laboratory
diagnosis of
leptospirosis
Leptospirosis: Is
it re-emergence?

Dr. Ranjana
Deshmukh

Head,
Department of
Virology,
Haffkine
Institute

Viral
Hemorrhagic
Fevers

Dr. D. T. Mourya

NIV, Pune

Dengue epidemic
and vector
control

Dr. Sanjay Sonar

Mycoviron

Gene based
diagnosis of
Infectious
diseases

Haffkine Day
Celebration:
Vaccinology

10/01/2002

Dr. Amita Joshi

Asso. Prof.,
Microbiology,
GMC, Mumbai

Landmarks in
vaccinology

Dr. Krishna Ella

MD,
Bharat Biotech
International
Ltd., Hyderabad

Impact of
Biotechnology in
the field of
immunologicals

Dr. K.K. Datta

Director, NICD,
New Delhi

Major modern
vaccines in India

Testing Activities: (1st April 2001 to 31st March 2002)

Sr. No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1.	CD4/CD8	189	2,26,800
2.	ELISA FOR HIV	07	1050
3.	ELISA FOR LEPTOSPIRA	71	49,700
4.	ELISA FOR DENGUE	6	4500
5.	IN VITRO ISOLATION FOR HSV/CMV	17	38,250
6.	DETECTION & ISOLATION OF RABIES VIRUS IN VIVO	1	3700
7.	IMMUNISATION CLINIC (POLIO/DPT/ARV)	69	1380
TOTAL			3,25,380

Total Income from Testing & Sponsored Research Activities:

(During the period of 1st April 2001 to 31st March, 2002)

A total income of Rs. 38,54,890 /- (Rs. Thirty-eight lakhs fifty four thousand eight hundred ninety only) was earned by the department during the period of 1st April 2001 to 31st March 2002.

Staff members on roll as on 31st March 2002:

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March 2002)

Sr No	Name	Designation	Qualifications
-------	------	-------------	----------------

1.	Dr. (Mrs.) R.A.Deshmukh	SSO-1	M.D. Ph.D.
2.	Mrs. A.A. Gandhi	STA	MSc.
3.	Mrs. S .A. Bidaye	Lab assistant	-----
4.	Mr. P. T. Salunkhe	Lab assistant	-----
5.	Mr. S.N. Kadam	Attendant	-----
6.	Mr. R.R. Katkar	Attendant	-----
7.	Mr. R. M. Mahajan	SRF	M.Sc.
8.	Dr. A.S. Korde	SRF	M.D.
9.	Ms. S.T. Kothari	SRF	M.Sc.
10.	Ms. N.A. Walawalkar	SRF	M.Sc.
11.	Mr. R. Roy	SRF	M.Sc.
12.	Ms. R.O. Singh	JRF	B.Sc.

Any Other Special Achievements, Activities:

1. Dr. (Mrs.) R.A.Deshmukh has participated in the **"WHO Regional Workshop on Laboratory approach to HIV and STDs for microbiologists"** at Govt. Medical College, Nagpur, April 18-20, 2001.
2. Dr. (Mrs.) R.A.Deshmukh is identified by NACO as a Resource Person for **"Sentinel surveillance of HIV for Maharashtra"**
3. She has delivered a lecture on **"Leptospirosis"** for awareness and education of common public, broadcasted on All India Radio, Mumbai A. on July 08, 2001.
4. She had been invited for the **" Intranasal Influenza Virus Vaccine: WLV-CAIV - T): Investigator's meeting"** at Barcelona, Spain, July 29 - August 04, 2001
5. She had been invited as an expert for the Expert Group Meeting on **"Reviewing and finalizing the guidelines for management of animal bite cases"**, at NICD, Delhi, on August 22, 2001.
6. She has delivered a lecture on **"Immunization of children"** for awareness and education of common public, broadcasted on All India Radio, FM, on December 16, 2001.
7. She has delivered a lecture on **"Anemia"** for awareness and education of common public, broadcasted on All India Radio, FM, on December 22, 2001.

8. She had been invited as an expert for the Expert Group Meeting to "**Discuss the feasibility of intradermal antirabies tissue culture vaccination in India**" at NICD, Delhi, on December 19, 2001
9. She had been invited as an Expert for "**Asia - Pacific Vaccine Experts meeting on Cold adapted influenza vaccine - trivalent (CAIV- T)**" at Singapore, March 9 - 10, 2002.
10. She has conducted the **Annual Lecture and Practical Course in Virology** for the M.Sc., M. Phil. and M.D. students of the University of Mumbai.
11. Dr. (Mrs.) R.A.Deshmukh has taken the charge for the Department of Immunology.
12. She has observed over **475 histopathology specimen slides** for the Department of Clinical Pathology.

Annual Report (2002 - 2003)

Department of Virology :

Training Activities: _____

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2002-03	Total Number of Students registered as on 31-3-2003
1.	Dr. (Mrs.) R.A.Deshmukh	M.Sc. and Ph.D., Microbiology	10	8

* Maximum total number of students allowed registration as per University rules.

The Department conducted the **Annual Lecture and Practical Course in Biotechnology** for the B.Sc. students of the University of Mumbai. For this course, 160 enrolments were made and revenue of **Rs. 1,16,250/-** lakhs was generated.

List of students completing Post-Graduate studies and obtaining degrees of the Mumbai University, during the period 2002 - 2003. **NOT APPLICABLE**

Research Activities: (1st April 2002 to 31st March 2003)

Post-Graduate Students' Research projects:

6. Preparation and purification of Equine Rabies Immunoglobulin (ERIG).
7. Purification and application of Lipoarabinomannan antigen as a diagnostic tool and its comparison with PCR, BACTEC, and conventional methods for diagnosis of tuberculosis.
8. Detection, Estimation and Correlation Of Cytokine-mRNA (TNF- α , IFN- γ , IL-2, IL-4, IL-6, IL-10) In HIV infected patients.
9. Study of erythropoietin and its correlation with anemia in HIV/AIDS patients
10. Indigenous Production and Application of Recombinant Human interferon alpha (rhIFN- α).
11. In-vitro Study of Phyllanthus amarus And Other Phytochemicals As Anti HIV Agents
12. Preparation and Bioefficacy testing of sub-unit vaccine for Yersinia pestis
13. Prevalence of HBV and HCV in HIV infected migrant workers in Mumbai
14. Role of Co-receptors in HIV pathogenesis in Indian Cohorts
15. Interplay of superoxide dismutase, free radicals and apoptosis in HIV/AIDS patients
16. Study of immune responses in spouses of HIV seropositive migrant workers
17. Study of Morbidity and Mortality trends in HIV associated wasting syndrome.
18. Preparation of monoclonal antibodies to differentiate rabies and rabies related viruses

Sponsored Research and Testing Studies:

1. Study of protein impurities/contaminants, if any, in various anti-rabies vaccines, funded by Aventis Pharma Limited. (Funds received: Rs. Three lakhs fifty seven thousand only)
2. Testing of purified extract of Phyllanthus amarus, for its anti-Hepatitis B in-vitro activity, funded by Amadeus Biotech and Pharmaceuticals (Funds received: Rs. Forty two thousand only)
3. Testing of silver solutions (ASAP) for their anti-HBV activity in vitro, funded by Viridis Limited (Funds received: Rs. Forty thousand only)
4. Testing of purified extract of Phyllanthus amarus, for its anti-Hepatitis B in-vitro activity, funded by Fine Fragrances Limited (Funds received: Rs. Thirty six thousand only)

Papers presented at Seminars, Conferences & Symposia:

1. M Biasin, S Rossi, D Trabattoni, M Saresella, P Ferrante, G Rizzardini, R Deshmukh, A Deshpande, M Clerici. Similar Degrees Of Immune Activation Are Present In Geographically Diverse Areas Of The World: Immunological Analyses In HIV Infected Individuals From Mumbai (India) And Contou (Republic of Benin) ECEAR 2002, Genoa Italy (June 8-11, 2002).
2. M Biasin, S Rossi, D Trabattoni, M Saresella, P Ferrante, G Rizzardini, R Deshmukh, A Deshpande, M Clerici. Similar Degrees Of Immune Activation Are Present In Geographically Diverse Areas Of The World: Immunological Analyses In HIV infected

Individuals From Mumbai (India) And Contou (Republic of Benin) XIV International AIDS conference 2002 Barcelona (July 7-11, 2002)

3. R. Mahajan, R. Singh, S. Kothari, A. Gandhi, R. Mittal, S. Sapatnekar and R. Deshmukh: Immunogenicity And Bioefficacy Study For Purified Duck Embryo Antirabies Vaccine (PDEV) In Pre-Exposure And Post-Exposure Cases; APRICON CONFERENCE; 2002 July 6 & 7 Jaipur.
4. Dr. Ranjana A Deshmukh, Dr. Shreekant M Sapatnekar, Dr. (Mrs.) Chaudhari, Dr. Shingade Recovery from Rabies Encephalitis in a boy partially vaccinated with PCEC (RABIPUR): Laboratory study Journal of the Association for Prevention and Control of Rabies in India; 2002: Vol. IV (1 & 2) pg. 44-47
5. S. Kothari, S. Sapatnekar and R. Deshmukh: Opportunistic Infections In Different Stages Of HIV In Symptomatic, Seropositive Children, XVI IAMM Conference; 20th - 24th November 2002, Bangalore
6. S. Kothari, S. Sapatnekar, A. Jha, G. Sharma and R. Deshmukh: Study Of The Antiviral Activity of purified extracts of *Phyllanthus amarus* on Hepatitis B Virus in-vitro, XVI IAMM Conference; 20th - 24th November 2002, Bangalore
7. R. Mahajan, R. Singh, S. Kothari, A. Gandhi, R. Mittal, S. Sapatnekar and R. Deshmukh: Bioefficacy Study For Purified Duck Embryo Antirabies Vaccine (PDEV) In 40 Pre-Exposure volunteers And 40 Post-Exposure Cases, XVI IAMM Conference; 20th - 24th November 2002, Bangalore

Dr. (Mrs.) R.A. Deshmukh attended and participated in the following seminars:

1. Attended an expert meeting on "The State of Animal Houses in India", convened by the Ministry of Statistics and Programme Implementation, Govt. of India, at New Delhi, on 10th June 2002.
2. Attended the "Annual Sentinel Surveillance for HIV Infection-Oriented meeting for Regional Coordinators" held at NIHFW, New Delhi, on 17th and 18th June 2002.
3. Delivered a lecture on "Universal Safety Precautions and Waste Disposal, Collection storage, transportation and HIV testing of blood samples", at HIV Sentinel Surveillance Training Workshop, held at MDSACS, Mumbai, at 3rd July 2002.
4. Participated in the 'Meeting of The Task Force for Influenza Surveillance', organized by ICMR, held at New Delhi, on 5th September 2002.
5. Was nominated on the expert panel of judges for the evaluation of papers for the 36th Annual General Conference of the Organization of Pharmaceutical Producers of India, and attended the same on 14th September 2002 in Mumbai.
6. Participated as a national expert on "Building consensus on HIV vaccine development, access and development", at a meeting organized by NACO and ICMR, held at New Delhi, on 21st November 2002.

7. Delivered a lecture on "Viral Infections: From animal experimentation to in-vitro research", for the 4th ICMR Training Course, held at the Department of Clinical Pharmacology, at BYL Nair Hospital, on 28th November 2002.
8. Delivered a guest lecture on "HIV pathogenesis" at the Indian Medical Association, Mumbai, on 1st December 2002
9. Delivered a lecture titled "Laboratory Investigations in SARS" in the Seminar on SARS: A challenge of the New Millennium, at the Indian Medical Association, Mumbai, on 20th April 2003
10. Delivered a lecture titled "Pathogenesis and Laboratory Diagnosis of SARS" in the seminar held at Grant Medical College and J.J. Group of Hospitals, on 7th May 2003

Testing Activities: (1st April 2002 to 31st March 2003)

Sr. No	Nature of the Sample Tested And the Test Performed	No. of tests	Charges per test Rs.	Testing Charges Earned. Rs.
1.	CD4/CD8	15	1200/-	18,000/-
2.	ELISA FOR HIV	02	150/-	300/-
3.	ELISA FOR LEPTOSPIRA	24	700/-	16,800/-
4.	ELISA FOR DENGUE	11	780/-	8,580/-
5.	IN VITRO ISOLATION FOR HSV/CMV	27	150/-	4,050/-
6.	DETECTION OF CMV IN URINE	06	50/-	300/-
7.	DETECTION & ISOLATION OF RABIES VIRUS IN VIVO / Rabies ELISA	02	500/-	1,000/-
8.	IMMUNISATION CLINIC (POLIO/DPT/ARV)	--	--	--
TOTAL				49,030/-

Total Income from Testing & Sponsored Research Activities:

(During the period of 1st April 2002 to 31st March, 2003)

A total income of **Rs. 5,24,030** was earned by the department during the period of 1st April 2002 to 31st March 2003.

Staff members on roll as on 31st March 2003:

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March 2003)

Sr No	Name	Designation	Qualifications
1.	Dr. (Mrs.) R.A.Deshmukh	SSO-1	M.D. Ph.D.

2.	Mr. P. T. Salunkhe	Lab assistant	-----
3.	Mr. S.N. Kadam	Attendant	-----
4.	Mr. R.R. Katkar	Attendant	-----
5.	Mr. R. M. Mahajan	SRF	M.Sc.
6.	Ms. S.T. Kothari	SRF	M.Sc.
7.	Ms. N.A. Walawalkar	SRF	M.Sc.
8.	Mr. R. Roy	SRF	M.Sc.
9.	Ms. R.O. Singh	JRF	B.Sc.
10.	Ms. K. B. Mahajan	SRF	M.Sc.
11.	Mr. V. S. Gupta	SRF	M.Sc.
12.	Mr. S. R. Mukherjee	JRF	B.Sc.
13.	Ms. A. Rege	SRF	M.Sc.
14.	Mr. P. A. Shringare	JRF	B.Sc.
15.	Ms. S. Tawde	JRF	B.Sc.
16.	Ms. S. Ghadigaonkar	JRF	B.Sc.
17.	Ms. P. Bangera	SRF	M.Sc.

Annual Report (2003 - 2004)

Department of VIROLOGY:

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2002-03	Total Number of Students registered as on 31-3-2003

1.	Dr. (Mrs.) R.A.Deshmukh	M.Sc. and Ph.D., Microbiology	10	8
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* Maximum total number of students allowed registration as per University rules.

Research Activities : (1st April 2003 to 31st March 2004)

Post-Graduate Students' Research projects :

19. Purification and application of Lipoarabinomannan antigen as a diagnostic tool and its comparison with PCR, BACTEC, and conventional methods for diagnosis of tuberculosis.
20. Detection, Estimation and Correlation Of Cytokine-mRNA (TNF- α , IFN- γ , IL-2, IL-4, IL-6, IL-10) In HIV infected patients.
21. Study of erythropoietin and its correlation with anemia in HIV/AIDS patients
22. Indigenous Production and Application of Recombinant Human interferon alpha (rhIFN- α).
23. In-vitro Study of Phyllanthus amarus And Other Phytochemicals As Anti HIV Agents
24. Preparation and Bioefficacy testing of sub-unit vaccine for Yersinia pestis
25. Prevalence of HBV and HCV in HIV infected migrant workers in Mumbai
26. Role of Co-receptors in HIV pathogenesis in Indian Cohorts
27. Interplay of superoxide dismutase, free radicals and apoptosis in HIV/AIDS patients
28. Study of immune responses in spouses of HIV seropositive migrant workers
29. Study of Morbidity and Mortality trends in HIV associated wasting syndrome.
30. Preparation of monoclonal antibodies to differentiate rabies and rabies related viruses

Sponsored Research Studies:

1. A preliminary standardization of procedures for "The estimation of in vitro antiHIV activity of Zeederm", funded by Viridis Biopharma Limited, Funds received: Rs. Seventy thousand only
2. Cytotoxicity and antiviral efficacy against hepatitis B virus (in-vitro study), funded by Viridis Biopharma Limited, Funds received : Forty two thousand only

Papers presented at Seminars, Conferences & Symposia:

1. Common medicinal plants: potential anti-virals? S. Kothari, K. Mahajan, S. Sapatnekar and R. Deshmukh
At XXVII National Conference of Indian Association of Medical Microbiologists, 5th - 9th November 2003, Mumbai.
2. Correlation of TNF- α levels with morbidity and mortality in HIV/ AIDS patients. R. Singh, S. Mukherjee, S Gupta, R. Dhurat, H. Jerajani, N. Hase, S. Sapatnekar and R. Deshmukh

At XXVII National Conference of Indian Association of Medical Microbiologists, 5th - 9th November 2003, Mumbai.

3. **Evaluation of radiorespirometry in rapid diagnosis of tuberculosis.** N. A. Walawalkar, M. K. Ray, MGR Rajan, G. Natraj, VR Salvi, S. M. Sapatnekar and **R. A. Deshmukh**
At XXVII National Conference of Indian Association of Medical Microbiologists, 5th - 9th November 2003, Mumbai.
4. **Increasing resistance of *Mycobacterium tuberculosis* to four first-line anti- tuberculosis drugs.**
N. A. Walawalkar, G. Natraj, VR Salvi, S. M. Sapatnekar and **R. A. Deshmukh**
At XXVII National Conference of Indian Association of Medical Microbiologists, 5th - 9th November 2003, Mumbai.
5. Delivered a lecture titled "**Laboratory Investigations in SARS**" in the Seminar on SARS: A challenge of the New Millennium, at the Indian Medical Association, Mumbai, 20th April 2003
6. Delivered a lecture titled "**Pathogenesis and Laboratory Diagnosis of SARS**" in the seminar held at Grant Medical College and J.J. Group of Hospitals, 7th May 2003
7. "The effect of heat shock in recombinant protein production" at **National Convention on Business Avenues in Biotechnology for SMEs**, organized by Small Industries Service Institute, Ministry of Small Scale Industries, Government of India, 9th and 10th December, 2003
8. "Effect of stringent response in recombinant protein production" on Haffkine Day at Haffkine Institute, Mumbai. Analysis of rhIFN α 2a production in genetically engineered *E.coli* strains at the National Seminar on "Biotechnology and Bioinformatics: Challenges and Prospects" organized by Bioengineering and Research Center, Rai University, Mumbai, 27th and 28th March 2004.

Research papers published in scientific journals:

1. **Laboratory diagnosis of SARS.** R. Deshmukh: Bulletin of Indian Medical Association, April 2003.
2. **Cytokine interplay in HIV-AIDS,** S. Kothari, A. Wadegaonkar, V. Agnihotri and R. Deshmukh: Bulletin of Directorate of Medical Education and Research, (in press).
3. **DNA vaccines,** R. Deshmukh: Bulletin of Directorate of Medical Education and Research, July 2003.
4. **Immunogenicity and Bioefficacy Study of Purified Duck Embryo Vaccine (PDEV) manufactured by Cadila Healthcare Ltd. (VaxiRab), in Indian Cohort :** R. Singh, S. Kothari, R. Mahajan, R. Mittal, S. Sapatnekar and **R. Deshmukh**, Vaccine (in press)

5. **Determination of Total Protein, Bovine Serum Albumin and Glycoprotein in Various Anti-Rabies Vaccines**, N. Walawalkar, S. Sapatnekar and **R.Deshmukh**, JAPI (in press)
6. **IL-4 and CXCR4 upregulation in HIV-infected and uninfected individuals from Maharashtra-Mumbai**. Mara Biasin, Adriano Boasso, Luca Piacentini, Daria Trabattoni, Giuliana Magri, **Ranjana Deshmukh**, Alaka Deshpande, Mario Clerici, AIDS 2003,17:1563-1576

Testing Activities : (1st April 2003 to 31st March 2004)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1.	Dengue IgM	8	6,240/-
2.	Leptospira IgM	1	780/-
3.	Urine CMV	2	100/-
4.	Rabies antibody (MNT)	1	3,700/-
5.	Rabies antibody (ELISA)	1	750/-
6.	Rabies antibody (CSF)	1	1,800/-
7.	CSF for HSV	15	2,250/-
8.	CSF for CMV	7	1,050/-
9.	ELISA for HIV	5	750/-
10.	Anti HBV	34	1,19,000/-
11.	CD4/CD8	11	13,200/-
12.	Anti HBV for Viridis	1	2,000/-
13.	Anti HBV for T M Thakore	2	10,000/-
Total		--	1,59,620/-

Total Income from Testing & Sponsored Research Activities:

(During the period of 1st April 2003 to 31st March, 2004)

A total income of Rs . 1,59,620/- was earned by the department during the period Of 1st April 2003 to 31st March 2004.

Staff members on roll as on 31st March, 2003 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2004)

1.	Dr. (Mrs.) R.A.Deshmukh	SSO-1	M.D. Ph.D.

2.	Mr. S.N. Kadam	Attendant	-----
3.	Mr. R.R. Katkar	Attendant	-----
4.	Ms. S.T. Kothari	SRF	M.Sc.
5.	Ms. N.A. Walawalkar	SRF	M.Sc.
6.	Mr. R. Roy	SRF	M.Sc.
7.	Ms. R.O. Singh	JRF	B.Sc.
8.	Ms. K. B. Mahajan	SRF	M.Sc.
9.	Mr. V. S. Gupta	SRF	M.Sc.
10.	Mr. S. R. Mukherjee	JRF	B.Sc.
11.	Ms. A. Rege	SRF	M.Sc.
12.	Ms. P. Bangera	SRF	M.Sc.
13.	Mr. P. A. Shringare	JRF	B.Sc.
14.	Ms. S. Tawde	JRF	B.Sc.
15.	Ms. S. Ghadigaonkar	JRF	B.Sc.

Any Other Special Achievements, Activities :

1. Conducted Annual Biotechnology programme for undergraduate and postgraduate students of University of Mumbai for a period of 3 months. The faculty members of the department conducted extensive lectures and practicals. Totals of 160 students were enrolled in this activity.
2. An informative book regarding viruses, written by the Departmental Head, in Marathi, was published by Granthali publication, Mumbai.
3. Mr. Rajesh Roy, a SRF from the Department Of Virology received 1st prize for the paper titled "The effect of heat shock in recombinant protein production" at National Convention on Business Avenues in Biotechnology for SMEs, organized by Small Industries Service Institute, Ministry of Small Scale Industries, Government of India, 9th and 10th December, 2003

Department of Zoonosis :

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2001-02	Total Number of Students registered as on 31-3-2002
	Dr. B.D. Sathe	M.Sc. Applied Biology by Research	10	One
	Dr. (Mrs.) V.R. Kamath	M.Sc. Applied Biology by Research	10	One

* Maximum total number of students allowed registration as per University rules.

List of students completing Post-Graduate studies and obtaining degrees of the Mumbai University, during the period 2001 - 2002. : Nil

Research Activities: (1st April 2001 to 31st March 2002)

Post-Graduate Students' Research projects:

- 1) Study of the prevalence of Leptospirosis in rodent population of Mumbai city.
- 2) Study of some plant extracts for larvicidal activity under laboratory conditions.

Sponsored Research Studies: Nil.

Papers presented at Seminars, Conferences & Symposia: Nil.

Research papers published in scientific journals : Nil.

Organization of Scientific Seminar / Symposia / Conferences: Nil.

Testing Activities:

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Insecticide, aerosol	32	5,52,000/-
2	Mosquito-Repellant Mats	3	60,000/-
3	Mosquito-Repellant Coils.	5	88,000/-
4	Mosquito-Repellant Gel.	1	24,000/-
5	Chalk	2	24,000/-
6	Liquid vaporizer	2	20,000/-
7	Larvicide	3	20,000/-
8	Odomos cream ,gel	8	32,000/-
Total		56	8,20,000/-
8	Venom supply (Sold)	----	2,34,330/-
9	Fees paid by Visitors to Snake farm	4081	8162/-
Grand Total			10,62,492/-

Total Income from Testing & Sponsored Research Activities:

A total income of Rs 10,62,492/- was earned by the department during the period Of 1st April 2001 to 31st March 2002.

Staff members on roll as on 31st March 2001:

List all staff members including scientific officers, technical and non- technical and Research Fellow who were on roll On 31st March 2001.

Sr No	Name	Designation	Qualification
1	Dr. B.D. Sathe	Head, and SSO, CI-I	M.Sc. Ph.D
2	Dr (Mrs.). V.R.Kamat	Senior Scientific Officer CI-I	M.Sc., Ph.D.
3	Shri. K.R. Pawar	Scientific Officer CI-II	B.Sc.

4	Shri. M.S. Shirsath	Scientific Officer Ci-II	M.Sc.
5	Mrs. N.B. Phulsunge	Clerk	S.S.C
6	Shri. P.T. Thare	Laboratory Assistance	S.S.C
7	Shri. A.V. Salunkhe	Snake Man	S.S.C
8	Shri. S.A. Mane	Snake Man	H.S.C
9	Shri. K. N. Jadhav	Assistance Snake Man	Std. 9 th
10	Shri. S.P. Thool	Laboratory Attendant	Std. 10 th
11	Shri. P.V. Patil	Laboratory Attendant	Std. 9 th
12	Shri. P.S. Gawade	Gardner and field man	H.S.C.
13	Shri. S.S. Surve	Gardner	Std. 9 th
14	Shri. S.S. Kasale	Gardner and Watchman	Std. 10 th
15	Kum. V.A. Mane	Gardner	Std. 5 th
16	Shri. Vikrant Thripathy	Research Fellow	M.Sc. (Appeared)
17	Kum. Suchita Desai	Research Fellow	M.Sc. (Appeared)

Department of Zoonosis :

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

	Degree and Subject	Total Intake	Total
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Sr No	Name of the Guiding Teacher	for which Recognized by the University of Mumbai	Capacity* 2002-03	Number of - Students registered as on 31-3-2003
1	Dr B.D.Sathe	Applied Biology	10	3
2	Dr (Mrs) V.R.Kamath	Applied Biology	10	1

* Maximum total number of students allowed registration as per University rules.

List of students completing Post-Graduate studies and obtaining degrees of the Mumbai University, during the period 2002 - 2003.

Sr No	Name of the Student & (Guiding Teacher)	Degree Subject (Year of Passing)	Title of Thesis
1	Kum Suchita Tulsidas Desai Dr (Mrs) V.R.Kamath	2002	Potency of larvicidal properties of plant extracts against mosquito larvae under laboratory conditions

Research Activities : (1st April 2002 to 31st March 2003)

Post-Graduate Students' Research projects :

- 1) Evaluation of possible larvicidal activity of selected plant extracts against *Aedes aegypti*
- 2) Evaluation of some Indigious plant extracts for possible activity against vector of Filariasis
- 3) Evaluation of Anti-flea activity of plant extracts to serve as possible biological control
- 4) Larvicidal activity against *Culex quinquefasciatus* mosquito larvae, with synthetic insecticides, plant extracts and their combinations.

Sponsored Research Studies : Nil

Papers presented at Seminars, Conferences & Symposia : No

Research papers published in scientific journals : No

Organization of Scientific Seminar / Symposia / Conferences

During the year (2002 - 2003) , the department organized following Seminars / Symposia/ Conferences :

(Furnish information on the title of the Seminar/Symposium/Conference organized, dates and names and designations of speakers and their topics)

Testing Activities : (1st April 2002 to 31st March 2003)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Commercial Insecticide Testing	35	4,04000
2	Supply of Venoms	9.57 g	63,460

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2002 to 31st March, 2003)

A total income of Rs .4,67,460 was earned by the department during the period Of 1st April 2002 to 31st March 2003.

Staff members on roll as on 31st March, 2003 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2003)

Sr No	Name	Designation	Qualifications
1	Dr B.D.Sathe	Asstt Director	MSc Ph D
2	Dr (Mrs) V.R.Kamath	Sr Sc Officer CI I	M.Sc. Ph D
3	Mr K. R.Pawar	Sr Sc Officer CI II	B.Sc
4	Mr M. S. Shirsat	Sr Sc Officer CI II	M.Sc
5	Mrs N.M. Phulsunge	Clerk	S.S.C.
6	A.V.Salunke	Snake man	S.S.C.Fail
7.	Mr S.A.Mane	Snake man	12 th passed

8	Mr K.N.Jadhav	Asstt Snake man	8 th passed
9	Mr P.T.Tare	Lab Asstt	S.S.C
10	Mr P.V.Patil	Lab Asstt	9 th passed
11	Mr S.P.Thool	Lab Attdd	10 th passed
12	Mr P.S Gawade	Mali	12 th passed
13	Mr S.S Surve	Mali	9 th passed
14	Mr S.S.Kasale	Mali	9 th passed
15	Miss Vandana Mane	Mali	7 th passed

Annual Report (2003 - 2004)

(Preiod of Reporting : 1st April 2003 to 31st March 2004.)

Department of Zoonosis:

Training Activities:

The following staff members of the department were recognized guiding teachers at the University of Mumbai for the respective degrees and subjects mentioned below, during the period of reporting.

Sr No	Name of the Guiding Teacher	Degree and Subject for which Recognized by the University of Mumbai	Total Intake Capacity* 2002-03	Total Number of Students registered as on 31-3-2003
1	Dr B.D.Sathe	Applied Biology	10	3
2	Dr (Mrs) V.R.Kamath	Applied Biology	10	-

* Maximum total number of students allowed registration as per University rules.

Research Activities : (1st April 2003 to 31st March 2004)

Post-Graduate Students' Research projects :

- 1) Evaluation of possible larvicidal activity of selected plant extracts against *Aedes aegypti*
- 2) Evaluation of some Indigenous plant extracts for possible activity against vector of Filariasis.
- 3) Evaluation of Anti-flea activity of plant extracts to serve as possible biological control.

Sponsored Research Studies : Nil

Papers presented at Seminars, Conferences & Symposia : No

Research papers published in scientific journals :**Sent for publication**

- 1) Larvicidal activity of plant extracts used alone & in combination with known synthetic larvicidal agents against *Aedes aegypti* Gauri S. Harve And Vijayalaxmi R. Kamath Indian Journal of Experimental Biology

Testing Activities : (1st April 2003 to 31st March 2004)

Sr No	Nature of the Sample Tested And the Test Performed	Total Number of Samples Tested	Testing Charges Earned. Rs.
1	Commercial Insecticide Testing	18	3,22,540
2	Supply of Venoms	10 g	78,000
3	Number of Visitors visited to snake farm	3189	6166

Total Income from Testing & Sponsored Research Activities :

(During the period of 1st April 2002 to 31st March, 2003)

A total income of Rs . 4,07,706 was earned by the department during the period Of 1st April 2002 to 31st March 2003.

Staff members on roll as on 31st March, 2004 :

(List all staff members including scientific officers, technical and non-technical staff and Research Fellows who were on roll on 31st March, 2003)

Sr No	Name	Designation	Qualifications
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1	Dr B.D.Sathe	Asstt.Director	M.Sc. Ph D
2	Dr (Mrs) V.R.Kamath	Sr Sc Officer Cl I	M.Sc. Ph D
3	Mr K.R. Pawar	Sr Sc Officer Cl II	B. Sc.
4	Mr M.S.Shirsat	Sr Sc Officer Cl II	M. Sc.
5	Mrs N.M.Phulsunge	Clerk	S.S.C.
6	A.V.Salunke	Snake man	S.S.C. Fail
7	Mr S.A.Mane	Snake man	12 th Passed
8	Mr K.N.Jadhav	Asstt. Snake man	8 th Passed
9	Mr P.V.Patil	Lab. Asstt.	9 th Passed
10	Mr S.P.Thool	Lab Attd.	10 th Passed
11	Mr P.S.Gawade	Mali	12 th Passed
12	Mr S.S. Surve	Mali	9 th Passed
13	Mr S.S.Kasale	Mali	9 th Passed
14	Miss Vandana Mane	Mali	7 th Passed

