



MORAL ORIENTED & FARMER FRIENDLY  
ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ  
ವಿಶ್ವವಿದ್ಯಾಲಯ

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**4<sup>th</sup>**

# Annual Report

2008 - 09



**KARNATAKA VETERINARY, ANIMAL &  
FISHERIES SCIENCES UNIVERSITY**

Post Box # 6, Nandinagar, Bidar - 585401, Karnataka, India



**KARNATAKA VETERINARY, ANIMAL  
AND FISHERIES SCIENCES UNIVERSITY**

NANDINAGAR, PB # 6, BIDAR - 585401; KARNATAKA

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*Annual Report*

2008 - 09

## Preface



Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar continues to strive hard to serve the farming community through its diversified activities in education, research and extension in livestock, dairy and fisheries sciences. The annual report of the University for the year 2008-09 provides comprehensive information on its activities and achievements in education, research, extension training and development and it is a great pride for me to place before you this forth Annual Report of KVAFSU, Bidar.

The year has witnessed significant achievements both in education and research. To impart education, the University has started the second Dairy Science College of the State at Mahagaon in Gulbarga district to offer 4 years degree programme leading to B.Tech (D. Tech). Apart from the students within the State, 167 outside state students nominated by Veterinary Council of India (VCI), Indian Council of Agricultural Research (ICAR) and 9 Foreign Nationals are also being imparted undergraduate and postgraduate education in this University. The Veterinary students of Bangladesh regularly undergo externship training in this University at Bangalore. In addition, the graduate students of PURDUE University, USA also undergo externship programme at this University. The E-resource centers have been established at Bidar and Bangalore Campus libraries, which have access to 1500 plus online journals in animal, veterinary, dairy and fisheries sciences under CeRA Consortium of the ICAR. The video conferencing facility is created to link Bidar and Bangalore Campuses and is being used for admission to various UG programmes along with regular officers meeting and other interactions.

The University has made substantial progress in research keeping in mind the mandate of "Rural Oriented and Farmer Friendly". During 2008-09 University was operating research projects with a funding support to the tune of Rs. 19.63 crores from Government of Karnataka, Government of India under DBT / DST Projects, foreign and other agencies. Besides these projects, the Government has sanctioned Rs. 4.31 crores for the research through RKVY and NAIP projects. For the first time, University has allocated Rs. 10 lakhs budget exclusively for staff research during this year. This has encouraged the teachers to undertake need based research and the results of which will be utilized for proposing projects to extra mural funding agencies. Significant research findings in Veterinary Science include identification of 5 varieties of fungi and 10 plants that causes death of cattle in Malnad area, evaluation of antibiogram pattern of mastitis in cattle for control of mite infestation in dogs, study of colic problem in horses in relation to its epidemiology and haemato-biochemical changes, evaluation of the role of cullicoides midges as vectors of blue tongue disease in sheep and study on efficacy of herbal choline on growth and performance of broilers. In animal science, Hallikar cattle breed descriptor was developed in Karnataka and feed characteristics for rumen fermentation and microbial biomass synthesis efficiency were established for different feed stuffs. In addition, about 200 SC/ST youths were mobilized into 18 livestock groups on concept of self help group and integrated with Bidri Goat Production.

Significant findings in Dairy Science includes the use of bacteriocins from lactic acid bacteria for the bio-preservation of traditional dairy products, production of valuable bio-active peptides like caseino phosphopeptides from un-utilized dairy bio-resources and production of enriched thermized paneer spread and standardization of kunda. In Fisheries Sciences, Rapidot kit for detection of White Spot Virus in shrimp culture was developed. Other technologies include the development of fish noodles from low value fish, designing of fresh vending and display table production of gelatin from fish skin and introduction of technology for utilization of filleting waste of fish for the production of value added fish product such as fish cutlet. Further, about 162 nucleotide sequences and 115 EST were submitted to gene bank and data bases CDS on genomics and proteomics of several bacteria for antibiotic residues were found out.

The faculty at various colleges, research and information centers and extension education units have organized several National and International Symposia, Conferences, refresher courses and farmers training programmes. Important training programmes organized at Bidar and Bangalore campuses for large number of officers of State Government include series of ASCAD Trainings, Artificial Insemination trainings, Karnataka Veterinary Council (KVC) and VCI sponsored trainings. An ICAR sponsored winter school was conducted on reproductive techniques to augment fertility in dairy animals at Bangalore. Scientist training programme was conducted in the field of Parasitology at Bangalore. The National and International Symposia organized at Bangalore campus include International conference on Rabbit Production, 15<sup>th</sup> Commonwealth Veterinary Association (CVA) Asian Regional meeting conference and workshop on concept of Animal Welfare, VCI National Seminar on Veterinary Education, Practice present status and future needs to meet the emerging challenges, National Symposium on Redefining Role of Indigenous Animal Genetic Resources in Rural Development, Recent trends in Toxicology by Diplomats of American Board to Toxicology, Roles of women Veterinarians in augmenting rural economy through Animal Husbandry and Globalization. National Symposium was organized on Animal Reproduction, Perspective, Challenges to Dairy Institutions and Industries. The workshops organized at National and International level at Mangalore Campus include, International workshop on molecular techniques in aquaculture and seafood safety, National training programme on coastal and marine environment management.

At this juncture, I would like to thank the Government of India, Government of Karnataka, Indian Council of Agricultural Research, New Delhi and other funding agencies for assisting in over all integrated development of the University and compliment Members of the Board of Management, Officers of the University, Faculty members, Students and Staff of this University and all those who have contributed in building the University to the present status.

Sd/-

Prof. Suresh, S. Honnappagol  
Vice-Chancellor

Place: Bidar

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## Editorial

It gives me immense pleasure to bring out the 4<sup>th</sup> Annual Report of the Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar, for the period 2008-09. KVAFSU has started one more Dairy Science College at Gulbarga, in addition to the existing one Dairy Science College at Bangalore and four Veterinary Colleges (Bangalore, Bidar, Shimoga & Hassan) to impart higher education in Veterinary, Animal Husbandry and Dairy Technology. College of Fisheries at Mangalore is the only Fisheries College in the University, so also in the State which impart Fisheries Education. These constituent Colleges, Institute of Animal Health & Veterinary Biologicals (IAH&VB), Livestock Research & Information Centers (L.RICs), Fisheries Research & Information Centers (FRICs) and Extension Education Wings (EEWs) have been carrying out research and extension education activities for the benefit of farming community in the State. An Institute for Wild Life Veterinary Research & Extension at Kudige, Kogdagu district has started functioning and expected to start PG programmes in wildlife soon.

As part of education, the students of KVAFSU have performed exceedingly well in studies and getting JRF & SRF fellowships of the ICAR. They have also won several medals in the National level Athletic & Sports Meets and made significant achievements in the co-curricular activities. The 2<sup>nd</sup> Convocation of the University was held on 17<sup>th</sup> January, 2009.

Staff research is a major activity in the University. A good number of projects have been sanctioned to the University during the period and sufficient research work has been carried out in the new as well as ongoing research projects. Highlights of research and research publications brought out by the faculty are included in this report.

Extension Education is a back bone of the University, which cater to the needs of the farming community in the State. The University has started three Extension Education Wings, one each at Bangalore, Mangalore and Bidar during the period for strengthening the Extension Education Activities for the benefit of farming sector. The University teachers, scientists and extension faculty have carried out good number of training programmes, demonstrations, farmers-scientist interaction sessions, workshops, seminars, animal health camps, field days and other outreach programmes for the benefit of farming community in all the campuses of the University. The University for the 1<sup>st</sup> time has organised a Kisan Mela (Januvaru, Kukkata & Matsyamela) at Bangalore Campus. As inscribed in the University logo "Farmers Friendly and Rural Oriented" good number of programmes have been carried out for the benefit of farmers, farm women and entrepreneurs. The University has provided technological back stopping to KVVs and line Departments of the state.

All the major achievements and works carried out by the University during the period in the areas of education, research and extension have been documented in this report. I am sure, this Annual Report will serve as a useful reference material not only for the University faculty but also for the faculty of other related Universities and Institutes.

Place: Bidar

Sd/-  
(H. Shivananda Murthy)  
Chief Editor &  
Director of Extension

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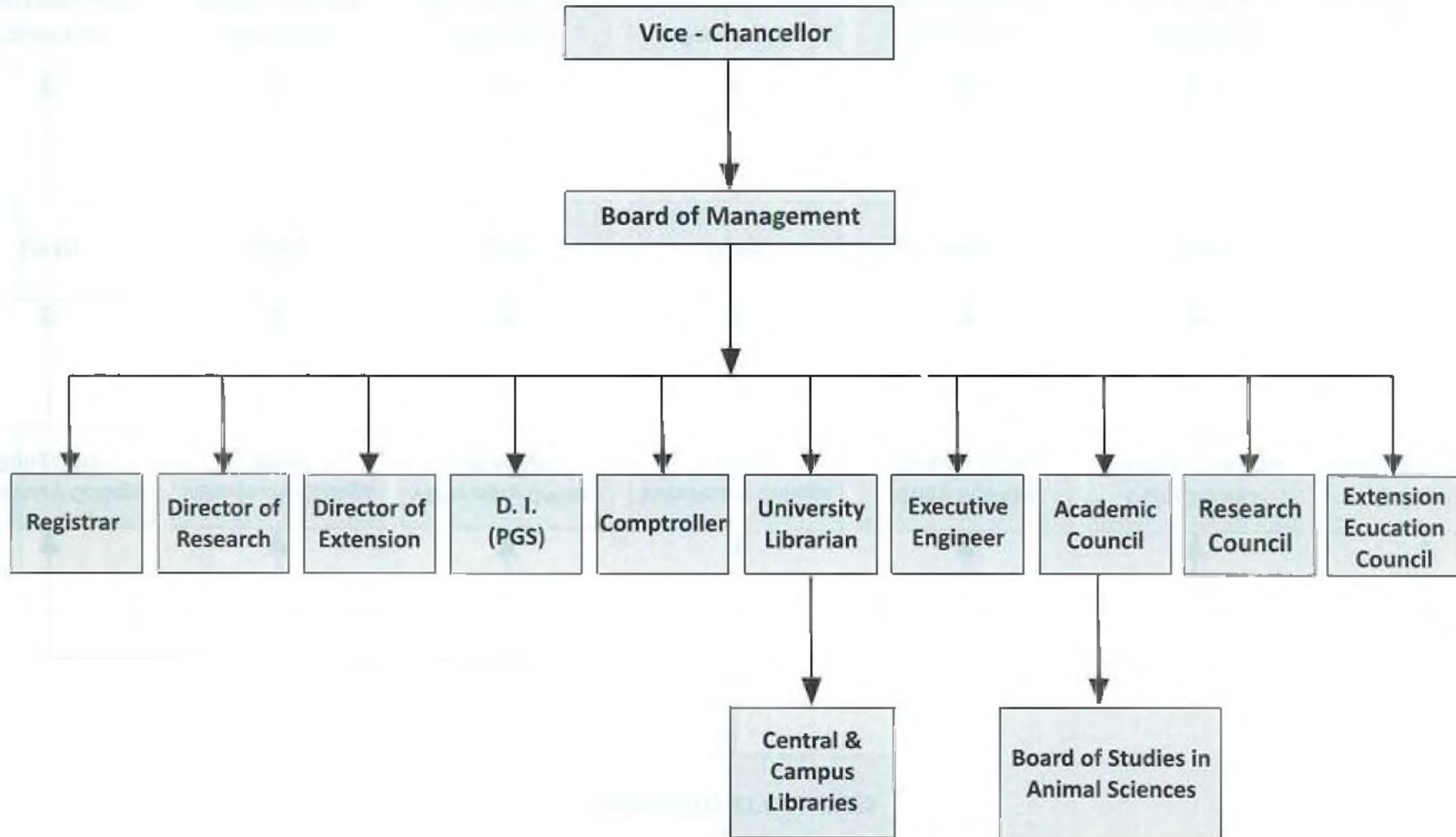
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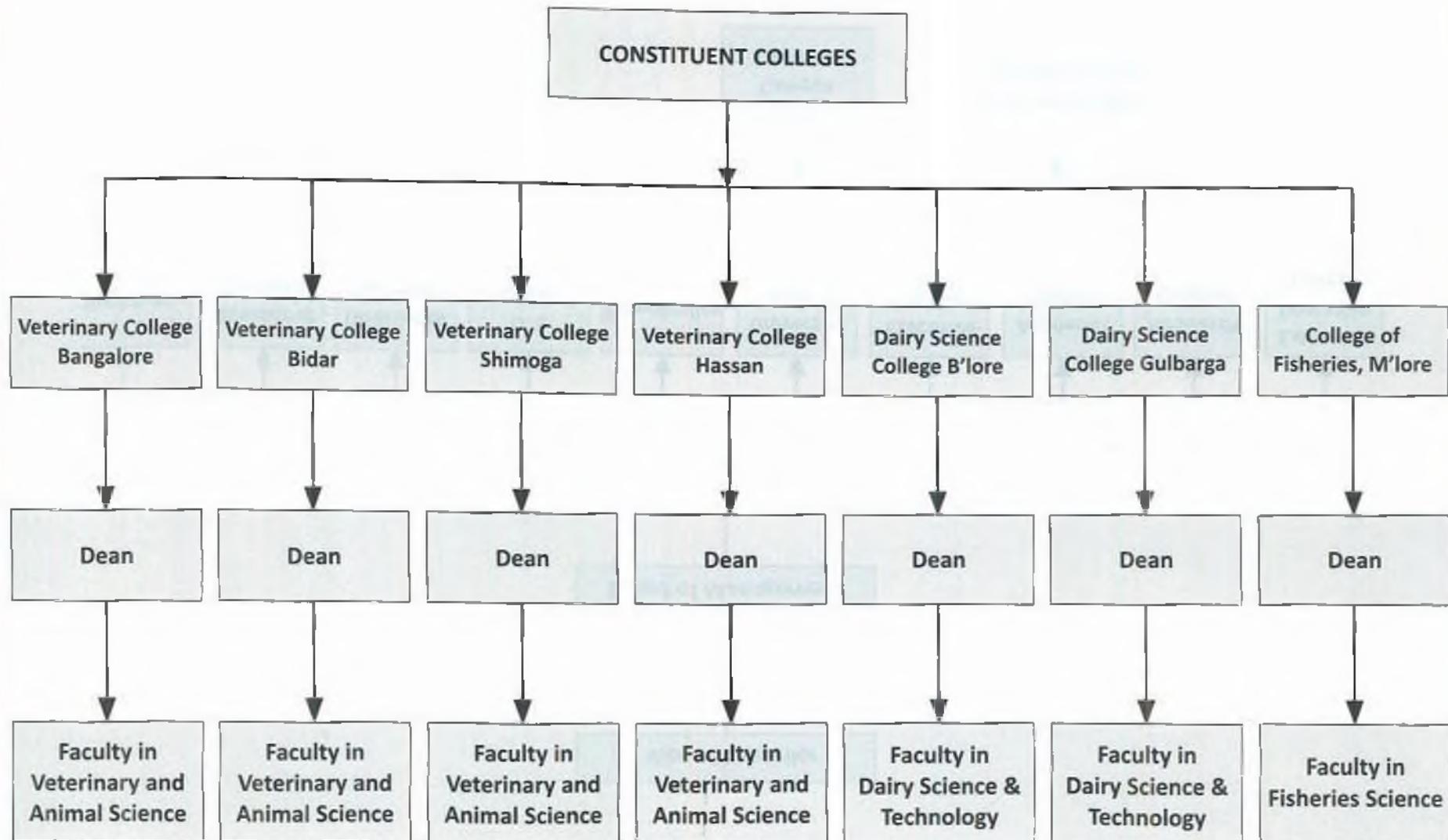
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# I. INTRODUCTION

## Organisational Setup







## Mandate of the University

The prime objective and mandate of the University are to uplift the rural livestock, poultry and fish farmers with a motto of "Rural Oriented and Farmer Friendly Activities". The University has a territorial jurisdiction of entire state of Karnataka covering the 30 districts. The major objectives of the University include,

- To impart higher quality education in different branches of study, particularly veterinary and animal sciences, fisheries and other allied sciences.
- Advancement of learning and research, particularly in veterinary science, dairy science, fisheries science and other allied sciences.
- To undertake the extension education service in veterinary and animal science, dairy science, fisheries science and other allied sciences to the rural people of the state.
- Such other purposes as the State Government may specify by notification in the official gazette from time to time.

## Mission of the University

The Mission of the Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar is to strive hard and provide leadership in teaching, research and extension education services related to veterinary, animal and fisheries to keep pace with new frontiers of science and contemporary developments with social and technical relevance. In this context, the Karnataka Veterinary, Animal and Fisheries Sciences University is strongly committed in absorbing newer paradigms and using them to develop excellent human resource, innovative technologies and their dissemination so as to serve the livestock and fish farming community of the state.

## GOVERNANCE

### BOARD OF MANAGEMENT OF THE UNIVERSITY

- Chairmen** :
1. Prof. G. S. Bhat (Feb to May 30<sup>th</sup>, 2008)
  2. Prof. S. Mallikarjunappa (1<sup>st</sup> June 24<sup>th</sup> Aug. 2008)
  2. Prof. Suresh, S. Honnappagol (From 25<sup>th</sup> August, 2008 - till date)
- Vice- Chancellors**

**Ex- Officio Members :**

The Principal Secretary to Govt. Department of AH & Fisheries or his nominee not below the rank of Joint Secretary.

The Principal Secretary to Finance department of or his nominee not below the rank of Joint Secretary

The Secretary to Govt. Law Department or his nominee not below the rank of Joint Secretary

The Director of Animal Husbandry & Veterinary Services Govt. of Karnataka, Bangalore

The Director of Fisheries, Govt. of Karnataka, Bangalore.

The Registrar of the University, Member Secretary.

**Other Members (Nominated)**

Members of the 2 <sup>nd</sup> Board of Management	
Sl. No.	Name of the Board Member
1	Dr. H. Channegowda
2	Sri S. P. Putta Buddi
3	Sri Monappa Karkera
4	Dr. H. T. Mohan Kumar
5	Smt. Shobhavathi Phulare
6	Dr. Gopala Gowda
7	Dr. S. M. Jayadevappa, President, Karnataka Veterinary Council



Dr. H. Channegowda



Sri S. P. Putta Buddi



Sri Monappa Karkera



Dr. H. T. Mohan Kumar



Smt. Shobhavathi Phulare



Dr. Gopala Gowda



Dr. S. M. Jayadevappa

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## **Credit Line**

Publisher

**Prof. Suresh, S. Honnappagol**  
Vice-Chancellor

Chief Editor

**Dr. H. Shivananda Murthy**  
Director of Extension

Assisted by

**Dr. K.C. Veeranna**  
Sr. Technical Assistant to DE &  
Associate Professor & Head, AHE  
Veterinary College, Bidar

**Mr. Tejpal C. S.**

Assistant Professor (C)  
Directorate of Extension

Printed by:

**Artwings**  
Bidar

## Our Institutions

### 1. Colleges

- 1) Veterinary College, Hebbal, Bangalore, established in 1958
- 2) Veterinary College, Bidar, established in 1984
- 3) Veterinary College, Shimoga, established in 2006
- 4) Veterinary College, Hassan, established in 2007
- 5) Dairy Science College, Hebbal, Bangalore, established in 1980
- 6) Dairy Science College, Mahagaon, Gulbarga, established in 2008
- 7) College of Fisheries, Mangalore, established in 1969
- 8) Veterinary College, Gadag (to be established)

### 2. Research institutes

- 1) Institute of Animal Health & Veterinary Biologicals Bangalore, established in 1926.  
(Along with Regional Disease Diagnostic Laboratory and Information Centers (9) spread across the State and SRDDL.)
- 2) Livestock Research & Information Center (Amruth Mahal and Hallikar), Konnehally, Tiptur.
- 3) Livestock Research & Information Center (Deoni), Hallikhed, Bidar.
- 4) Livestock Research & Information Center (Sheep), Nagamangala.
- 5) Fisheries Research & Information Center (Inland), Hesaraghatta.
- 6) Fisheries Research & Information Center (Inland), Hebbal, Bangalore.
- 7) Fisheries Research & Information Center (Marine), Ankola, Uttara Kannada.
- 8) Rural Veterinary Hospital, Yelahanka, Bangalore
- 9) Institute of Wildlife Veterinary Medicine, Kudige, Kodagu District
- 10) Livestock Research & Information Center (Canine), Thimmapur, Bagalkot (Under establishment)
- 11) Livestock Research & Information Center (Buffaloe), Yadgir District (To be established)
- 12) Fisheries Research & Information Center (Inland), Bijapur District (Under establishment)

### 3. Extension Education Institutes / Units

- 1) Extension Education Wing, Bangalore
- 2) Extension Education Wing, Mangalore
- 3) Extension Education Wing, Bidar
- 4) Farmers Training Institute, Bidar



## Officers of the University during the period

- |   |  |
|---|--|
| 1. Vice Chancellor, KVAFSU, Bidar               | 1. Prof. G. S. Bhat<br>(9 <sup>th</sup> Feb. - 31 <sup>st</sup> May, 2008)         |
|   | 2. Prof. S. Mallikarjunappa<br>(1 <sup>st</sup> June - 24 <sup>th</sup> Aug. 2008) |
|   | 3. Prof. Suresh, S. Honnappagol<br>(w.e.f. 25 <sup>th</sup> Aug. 2008)             |
| 2. Registrar, KVAFSU, Bidar                     | Dr. M. Devaraj   |
| 3. Comptroller, KVAFSU, Bidar                   | Sri. R. V. Garag   |
| 4. Director of Extension, KVAFSU, Bidar         | Dr. H. Shivananda Murthy   |
| 5. Director of Research , KVAFSU, Bidar         | Dr. S. M. Usturge (I/c)  |
| 6. Director of Instruction (PGS), KVAFSU, Bidar | Dr. S. M. Usturge  |
| 7. University Librarian, KVAFSU, Bidar          | Dr. H. Shivananda Murthy (I/c)   |
| 8. Dean, Veterinary College, Bidar              | Dr. Y. Haribabu  |
| 9. Dean, Veterinary College, Bangalore          | Dr. S. Yathiraj  |
| 10. Dean, Dairy Science College, Bangalore      | Dr. B. V. Venkateshaiah  |
| 11. Dean, Veterinary College, Shimoga           | Dr. S. Mallikarjunappa   |
| 12. Dean, Veterinary College, Hassan            | Dr. M. S. Vasanth  |
| 13. Dean, College of Fisheries, Mangalore       | Dr. Y. Basavaraju  |
| 14. Head of Veterinary Science Division         | Dr. Krishna Swamy  |
| 15. Head of Animal Science Division             | Dr. U. Krishna Murthy  |
| 16. Head of Poultry Science Division            | Dr. H. N. Narasimha Murthy   |
| 17. Head of Fisheries Science Division          | Dr. Ramachandra Bhatta   |
| 18. Head of Dairy Science Division              | Dr. Ramachandra Rao  |
| 19. Executive Engineer                          | Sri M. K. Satish   |

## Executive Summary

The University has completed four years of existence and we have attained the status of a full fledged University. Career Advancement Scheme (CAS) of the UGC/ICAR-1996 was implemented and promoted teachers from Assistant Professor to Associate Professor and Associate Professor to Professor cadre. In Veterinary and Animal Science 21 got Master's Degree and 2 got Doctoral Degree. In Dairy Science 30 obtained Master's Degree. In Fisheries Science 14 had taken Master's Degree and 08 Doctoral Degree during the year.

### Education

Education is a major area of the University. The teaching activities were carried out in three major disciplines at five Campuses through six constituent Colleges under the jurisdiction of this University. Undergraduate degree programmes in Veterinary and Animal Husbandry were offered at Bidar, Bangalore, Shimoga & Hassan; Dairy Science & Technology at Bangalore & Gulbarga and Fisheries Science at Mangalore. The University offers Masters programme in 14 disciplines and Doctoral programme in 12 disciplines in Veterinary and Animal Sciences; 3 disciplines in Dairy Science and 5 disciplines in Fisheries Science for both Masters and Doctoral degree programmes.

Admission under various degree programmes to KVAFSU was undertaken during 2008-09 and the intake was 332 students, comprising 224 for under graduate studies and 108 for postgraduate studies. Among 224 under graduate students admitted to various degree programmes, 169 were for BVSc&AH degree at Bangalore, Bidar, Shimoga and Hassan Campuses and 38 for B.Tech (Dairy) degree and 17 for Bachelor in Fisheries Science Degree. Out of 108 post graduate students, 58 for Master's Degree in Veterinary & Animal Science and 17 for MSc. Degree In Dairy Technology and 33 for Master's Degree in Fisheries Science.

Out of total 44 post graduate students, who were awarded degrees in different disciplines of University, 20 are from Veterinary Faculty, 3 from Dairy Science faculty and 21 are from Fisheries faculty.

A good number of graduates of this University qualified in ICAR Junior Research Fellowship and secured PG admissions in many prestigious Institutes like IVRI, CIFE, NDRI, CCS, HAU and in overseas institutions. Second convocation of the University was held on 17-01-2009 and 527 candidates were awarded various degrees.

### Research

KVAFSU has operated research projects with extra mural funding support to the tune of Rs. 23.94 crores in various Colleges, Institutes and Farms. European Commission, Department of Biotechnology, DST, New Delhi, ICAR, GOI (RKVY) are our major supporters. Technologies developed by KVAFSU are contributing for improvement of animal health and production of livestock, poultry and fish all over the country and also abroad. Vaccines developed and marketed by the IAH&VB are in great demand through out the country, since those vaccines are manufactured according to GHP/OIE/WHO standards. We are considered as leaders in the research area of shrimp disease & health management. To overcome the usage of antibiotics in aquaculture, the scientists of this University have developed probiotics and immunostimulants, and several technologies including 'Punyakoti' test for pregnancy diagnoses, 'Swarnadhara' a dual purpose poultry bird for backyard farming, swine fever vaccine and other technologies.

The University has been developing farms in different parts of Karnataka to undertake research on various aspects of livestock, poultry and fisheries and information service. In Hallikhed, near Bidar, a Livestock Research and Information Centre with emphasis on conservation and maintenance of pure breed of Deoni cattle was undertaken. The farm has integrated livestock, poultry, fisheries, fodder and pasture development, vermicomposting and azolla culture with a concept of BIO-VILLAGE.

Livestock Research and Information Centre (LRIC) has been developed with emphasis on Amrithmahal and Hallikar breeds of cattle. The Inland Fisheries Research and Information Centre at Hesaraghatta and Hebbal, Bangalore have been actively working on fish seed production, genetic improvement of carps and ornamental fish breeding. The Marine Fisheries



Research and Information Centre at Ankola, Uttar Kannada working on demonstration of shrimp and brackish water aquaculture. At Nagamangala in Mandya district, the LRIC is working on genetic improvements of sheep breeds.

#### **Extension Education Activities**

The University has established Extension Education Wings (EEWs) at Bangalore, Mangalore and Bidar Campuses for transfer of technology to reach the un-reached. The University is propagating and popularizing its technologies to the farmers through series of training programmes, demonstrations, animal health camps, field days, farmers-scientists interaction sessions, awareness programmes, treatment of medical, surgical and reproductive problems, krishimelas, farmers meet, village adoption. Publication of folders, bulletins and books on package of practices in local language for the benefit of farming community and half yearly News Letters and Annual Reports of the University are undertaken by the Directorate of Extension. The University through Directorate of Extension is providing technological backstopping to KVKs and line departments of the state.

Livestock, Poultry & Fisheries Expo-2009 (Januaru, Kukkata & Matsyamela) was organised by the University for the first time at KVAFSU, Regional Campus Bangalore during February 20-21, 2009 in a benefitting manner as a means of transfer of technology.

Institute of IAH & VB, Bangalore has produced 254.253 lakh doses vaccines including both bacterial and viral vaccines. It has screened 87936 samples for analysis of various diseases.

The Departments of Medicine, Surgery and Gynaecology of Veterinary College, Bidar and Bangalore provided diagnosis and treatment for more than 45,323 livestock and advise to farmers. The Pathology Department of Bangalore Campus conducted 5,000 post mortems of livestock to diagnose the diseases and also helped in solving the Vetro legal cases. Department of Veterinary and Animal Husbandry Extension, Bidar,

Bangalore and Shimoga organized 27 on farm demonstrations on scientific livestock production practices to the practicing farmers, farm women and unemployed youth and prepared project and feasibility reports for establishing various livestock enterprises for 80 farmers. An innovative way community based women empowerment was under taken in Bidar district through Livestock Interest Groups as a means of livelihood security.

The University has organized 85 animal health camps / livestock shows and exhibitions, 119 training programmes to farmers and officers of the Central and State Governments. The faculty members participated in 303 training programmes organized by various Departments / Agencies. The University officials served as resource persons / judges in various committees formed at All India Livestock shows. The faculty also delivered 27 Radio talks / TV programmes for the benefit of the farmers. A good number of popular articles have been published in magazine and leading news papers by the teachers for the benefit of farmers. The farms of this University supplied 275 piglets, 40 sheep, 150 rabbits, 76,464 fish fingerlings, 50,872 ornamental fishes, 150 giriraja birds, 46875 table eggs, 81,725 hatching eggs, 12.167 tons of feed, 9.0 tons of manure, 7 turky birds and 1.25 lakh root slips to the farming community as a means of transfer of technology and to popularise improved breeds / varieties.

#### **Sports / NSS / Cultural Activities**

The students of this University have been given adequate platform to exhibit their talents in sports and cultural activities. The students won 1<sup>st</sup> prize in Table Tennis (women) and 2<sup>nd</sup> prize in Volley Ball (men) at National level, in the 10<sup>th</sup> All India Inter-Agriculture University Youth Festival held at Jawaharlal Nehru Krishi Vidyapeet, Jabalpur (MP). Veterinary College, Bangalore organised a mega cultural festival "Goldvetfest" on the eve of Golden Jubilee Celebration. Special NSS Camps in villages and activities under NSS were organized by all the Colleges, which served as a prelude to Extension courses and activities.

## Meetings of Board of Management (BOM), Sub-Committees of BOM, Academic Council and other meetings held during the period

Sl. No.	Board of Management Meeting	Date	Place
<b>BOARD OF MANAGEMENT MEETINGS</b>			
1	23 <sup>rd</sup> Board of Management Meeting	18 <sup>th</sup> August, 2008	KVAFSU, Bidar
2	24 <sup>th</sup> Board of Management Meeting	30 <sup>th</sup> September, 2008	Veterinary College, Bangalore
3	25 <sup>th</sup> Board of Management Meeting	12 <sup>th</sup> November, 2008	KVAFSU, Bidar
4	26 <sup>th</sup> Board of Management Meeting	16 <sup>th</sup> January, 2009	KVAFSU, Bidar
5	27 <sup>th</sup> Board of Management Meeting	11 <sup>th</sup> February, 2009	KVAFSU, Bidar
6	28 <sup>th</sup> Board of Management Meeting	25 <sup>th</sup> March, 2009	Veterinary College, Bangalore

### PLANNING & WORKS COMMITTEE MEETINGS

1	5 <sup>th</sup> Planning & Works Committee Meeting	29 <sup>th</sup> September, 2008	Veterinary College, Bangalore
2	6 <sup>th</sup> Planning & Works Committee Meeting	11 <sup>th</sup> November, 2008	KVAFSU, Bidar
3	7 <sup>th</sup> Planning & Works Committee Meeting	25 <sup>th</sup> March, 2009	Veterinary College, Bangalore

### FINANCE COMMITTEE MEETING

1	13 <sup>th</sup> Finance Committee Meeting	25 <sup>th</sup> March, 2008	Veterinary College, Bangalore
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### FARM DEVELOPMENT COMMITTEE MEETINGS

1	1 <sup>st</sup> Farm Development Committee Meeting	29 <sup>th</sup> September 2008	Veterinary College, Bangalore
2	2 <sup>nd</sup> Farm Development Committee Meeting	11 <sup>th</sup> November 2008	KVAFSU, Bidar
3	3 <sup>rd</sup> Farm Development Committee Meeting	25 <sup>th</sup> March 2009	Veterinary College, Bangalore

### EXTENSION & PUBLICITY COMMITTEE MEETING

1	1 <sup>st</sup> Extension & Publicity Committee Meeting	11 <sup>th</sup> November, 2008	KVAFSU, Bidar
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### ACADEMIC COUNCIL MEETINGS

1	6 <sup>th</sup> Academic Council Meeting	29 <sup>th</sup> April, 2009	Veterinary College, Bangalore
2	7 <sup>th</sup> Academic Council Meeting	15 <sup>th</sup> January, 2009	Board Room, KVAFSU, Bidar

### EXTENSION COUNCIL COMMITTEE MEETING

1	3 <sup>rd</sup> Extension Council Meeting	27 <sup>th</sup> April, 2008	KVAFSU, Bidar
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### RESEARCH COUNCIL COMMITTEE MEETING

1	3 <sup>rd</sup> Research Council Meeting	28 <sup>th</sup> April, 2008	KVAFSU, Bidar
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### 2<sup>nd</sup> CONVOCATION

The 2<sup>nd</sup> Convocation of the University was held on 17<sup>th</sup> January, 2009, which is the 'Foundation Day' of the University. Shri. Revu Naik Belamagi, Hon'ble Minister for Animal Husbandry & Pro-Chancellor of the University presented the Degrees, Medals and Awards to the students in Undergraduate, Postgraduate and Doctorate studies. The Convocation address was delivered by Dr. A. L. Chaudhary, President, Veterinary Council of India, New Delhi. In his address, he emphasized on development of professional skills to enable the graduates "to achieve more with less" should be the guiding force in their never ending voyage to professional pursuit in the chosen field.

Totally 527 candidates were awarded various degrees in Animal Husbandry & Veterinary Sciences, Dairy Science & Technology and Fisheries Science. Out of which, 375 at Bachelors level, 118 at Masters level and 34 at Doctorate level were conferred. Among the total awardees, 420 were boys and 107 were girl candidates. 'Research Grant Incentive Awards' were also awarded to teachers, who handled major outside funded projects. Prof. Suresh, S. Honnappagol, Vice-Chancellor welcomed the Hon'ble Minister, Chief Guest and other dignitaries and presented a brief report on the





University achievements and accomplishments made. Dr. M. Devaraj, Registrar, KVAFSU read out the names of the graduates who awarded gold medals undergraduate level. Dr. H. Shivananda Murthy, Director of Extension, KVAFSU presented the list of scientists for 'Research Incentive Awards'. Dr. S. M. Usturge, Director of Instruction (PGS), KVAFSU presented the list of gold medalists at postgraduate level. Dr. S. Yathiraj, Dean, Veterinary College, Bangalore read out list of graduates in B.V.Sc. Dr. Venkateshaiah, Dean, Dairy Science College, Bangalore presented the graduates in B.Tech (D. Tech). Dr. Y. Basawaraju, Dean, College of Fisheries, Mangalore read out the list of B.F.Sc., Candidates.

All the Members of Board of Management, KVAFSU namely, Dr. H. Channegowda, Sri. S.P. Putta Buddi, Sri. Monappa Karkera, Sri. H.T. Mohan Kumar, Smt. Shobavathi Phulare, Dr. Gopala Gowda, Dr. S. M. Jayadevappa, Dr. Rajagopal, Sri. H. S. Veerappagowda and Sri. Ganesh Murthy were present. Dr. S. Mallikarjunappa, Dean, Veterinary College, Shimoga; Dr. Vasanth, Dean, Veterinary College, Hassan and other officers were present. Dr. R. N. Srinivasa Gowda and Dr. G. S. Bhat, former Vice-Chancellor graced the occasion.

The Convocation was started with a ceremonial procession from the Administrative block and ended with a ceremonial procession after the national anthem.



## Meetings attended by Prof. Suresh, S. Honnappagol, Vice-Chancellor KVAFSU During 2008-09

Date	Particulars
26-07-2008	Attended Statues Review Committee Meeting at Director, Animal Husbandry & Fisheries, Secretariat, Bangalore
29-07-2008	Chaired the First Officer's Meeting
30-07-2008	Chaired the Press Review Meeting
18-08-2008	Chaired 23 <sup>rd</sup> Meeting of the newly constltuted Board of Management.
20-08-2008	Chaired 2 <sup>nd</sup> Sports & Cultural Council & Officers Meeting.
23-08-2008	Participated in the Karnataka State Veterinary Livestock Inspectors Annual Conference & Technical Meet as a Chief Guest along with Hon'ble Minister for Animal Husbandry and the Pro-Chancellor.
05-09-2008	Participated in the interactive meeting with The office bearers of Teachers Association.
06-09-2008	Chaired the Civil Works Review Meeting of Bangalore and Mangalore Regions of the University. Chaired the ISSAR National Symposium organizing committee meeting with HOD (ARGO) & Faculty, Head of Division (Veterinary Science), (Animal Science), & Dean (Veterinary), Bangalore.
08-09-2008	Chaired the Officers Meeting from Hebbal Campus through Video Conferencing system.
09-09-2008	Participated in the meeting with Dr. Karunsri I. and Mr. Kanae W. from Japan in connection with Veterinary Dermatology work shop to be held at Bangalore.
	Participated in the Coordination Meeting along with Vice-Chancellor and Officers of UAS Bangalore and KVAFSU, Bidar.
10-09-2008	Participated in the State Level Review Committee Meeting of RKVY chaired by Chief Secretary, Govt. of Karnataka.
16-09-2008	Participated in ICAR ILRI workshop to develop road map for Animal Diseases in the country.
25-09-2008	Participated as a panelist In the 5 <sup>th</sup> IAUA National Symposium on "Environment, Pollution and its effect of Agricultural Production and Human Health" at Allahabad Agricultural Institute & Deemed University, Allahabad.
29-09-2008	Chaired the First Farm Development Committee, 5 <sup>th</sup> Planning & Works Committee and 11 <sup>th</sup> Finance Committee Meetings & halt.
30-09-2008	Chaired the 24 <sup>th</sup> Meeting of Board of management.
01-10-2008	Interactive meet with Afgan National Students along with Dean (Veterinary), Bangalore.
10-10-2008	Chaired 5/17 <sup>th</sup> Officers Meeting through Video- Conferencing.
14-10-2008	Participated a workshop organized By University of Minnesota & University of Hyderabad.
23-10-2008	Participated in the 2 <sup>nd</sup> Conference of STPI.
24-10-2008	Participated in the World Food Day celebration, Village Adoption & Animal Health Camp at Solure of Devanalli Taluk.
11-11-2008	Chaired the Planning, Works, Finance, Farm Development and Extension & Publicity sub Committee Meeting of the BOM.
12-11-2008	Chaired the 25 <sup>th</sup> meeting of Board of Management.
14-11-2008	Chaired the 6/18 <sup>th</sup> Officers Meeting at Bidar
18-11-2008	Participate in the Global Summit on Public Health at Lucknow.
25-11-2008	Chaired the Budget meeting, 7/19 <sup>th</sup> Officer meeting and DRE representative meeting through Video Conference.



26-11-2008	Chaired the starting committee meeting of the Livestock and Fisheries Mela.
	Participated in the organic-Agriculture Meeting under the Chairmanship of Hon'ble Chief Minister.
29-11-2008	Conduct the State and Deemed Veterinary University Vice Chancellors and KVAFSU Officers interactive meet.
03-12-2008	Participated in Vice Chancellor Conference at Anand.
10-12-2008	Participated in ISSAR Meeting and Golden Jubilee Celebration Committee and Vidya Dairy Meetings.
13-12-2008	Participated and Presented technical paper at the National Symposium of VCI- New Delhi.
21-12-2008	Participated in SAU developmental grant utilization, golden jubilee committee, ISSAR meeting and participated in karuna function.
24-12-2008	Chaired Budget meeting of all the Research & Information Centers of the University.
26-12-2008	Chaired the 8/20 <sup>th</sup> Officers meeting & Gold medal committee meeting through Video conference.
07-01-2009	Chaired the meeting regarding proposed Civil Works of Veterinary College Shimoga.
13-01-2009	Chaired the Final review meeting of different convocation sub Committees.
15-01-2009	Chaired the 7 <sup>th</sup> Academic Council Meeting.
16-01-2009	Chaired the 26 <sup>th</sup> Board of management meeting.
17-01-2009	Participated In the 2 <sup>nd</sup> Convocation along with Pro-Chancellor.
20-01-2009	Participated in the Review meeting under the Chairmanship of Hon'ble Chief Minister.
24-01-2009	Participated in the NAVSc Convocation and delivered a paper on "Contribution of livestock Sector to the National Economy".
27-01-2009	Participated the Karnataka Krishi Mission 4 <sup>th</sup> meeting at Agricultural Department.
04-02-2009	Participated in the 4 <sup>th</sup> World Congress on conservation of Agriculture Vidya Bhavan-New Delhi.
11-02-2009	Chaired the 27 <sup>th</sup> meeting on Board of Management.
12-02-2009	Chaired the review meeting of all the Sub-Committees of Januvaru Mela.
16-02-2009	Participated in the All India Vice-Chancellor's Conference-2009 Participated the Valedictory Session on World Congress of Animal Nutrition addressed by the Dr. A.P.J. Abdul Kalam.
24-02-2009	Chaired the meeting regarding recruitment process of Service Personal posts.
26-02-2009	Participated in the National Symposium at NIANP as Guest Honor along with DDG (Animal Science) ICAR & VC, DVAFSU-Mathura Chaired the RKVY 2009-10 proposals meeting.
02-03-2009	Presided over the Avian Influenza Work Shop in Collaboration with European Commission, Govt. of India, SRDDL, IAH&VB & KVAFSU- Bidar.
06-03-2009	Chaired the meeting with office bearers to Teachers Association, Non-Teaching Employees Association, SC/ST Employees Association and DRE Association along with the officers.
09-03-2009	Chaired the 9/21 <sup>st</sup> Officers meeting through Video-Conferencing.
12-03-2009	Participated in the State Universities Vice-Chancellor's Conference at Raj Bhavan-Bangalore.
18-03-2009	Interacted through Video-Conference with Mr. Sriram & Srlnanda from University of Minnesota-USA.
25-03-2009	Chaired the meeting of Farm Development, planning, Works & Finance sub-Committee meeting along with 28 <sup>th</sup> meeting of Board of Management.

## II. EDUCATION (Teaching)

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar offers both Undergraduate, Postgraduate and Ph.D., degree programme in Veterinary & Animal Husbandry, Dairy and Fisheries Sciences. During the year 2008-09, one new Dairy Science College was started at Gulbarga. KVAFS University presently has four constituent Veterinary Colleges one each at Bidar, Bangalore, Shimoga and Hassan and two Dairy Science Colleges one each at Bangalore and Gulbarga and one College of Fisheries located at Mangalore.

The list of colleges with their location, year of establishment and courses offered are furnished in the following table.

**Table 1. Teaching Institutions**

Sl. No.	Teaching Institute With Location	Year of Establishment	Name of the Dean	Courses Offered
1	Veterinary College, Hebbal, Bangalore	1958	Dr. S. Yathiraj	B.V.Sc. & A.H., M.V.Sc (Vety. Sc., Animal Sc. & Poultry Sc.) and Ph.D. (Vety. Sc., Animal Sc. & Poultry Sc.)
2	Veterinary College, Bidar	1984	Dr. Y. Haribabu	B.V.Sc. & A.H., M.V.Sc (Vety. Sc. & Animal Sc.) and Ph.D. (Vety. Sc. & Animal Sc.)
3	Veterinary College, Shimoga	2006	Dr. S. Mallikarjunappa	B.V.Sc. & A.H.
4	Veterinary College, Hassan	2007	Dr. M. S. Vasanth	B.V.Sc. & A.H.
5	Dairy Science College, Hebbal, Bangalore	1980	Dr. B. V. Venkateshaiah	B. Tech (D. Tech), M. Tech. (Dairy Chemistry, Dairy Techn. & Dairy Mic) and Ph.D (Dairy Chemistry, Dairy Techn. & Dairy Mic)
6	Dairy Science College, Gulbarga	2008	Dr. U. S. Biradar (Special Officer)	B. Tech (D. Tech)
7	College of Fisheries, Mangalore	1969	Dr. Y. Basavaraju	B.F.Sc., M.F.Sc (Aqua, Fishery Mic, IFT, FPT, FEE & FRM) and Ph.D. (Aqa, Fishery Mic, IFT, FPT, FEE & FRM)*

\* FPT Fish Processing Technology, IFT Industrial Fisheries Technology, FEE Fisheries Environmental & Ecology, FRM Fisheries Resource & Management.

### A) Admission Strength and Out turn of Students

During the year 2008-09 total of 367 students were admitted in the University, out of them 224 were admitted for Under graduation courses, 108 for Post graduation and 35 for Doctoral Programme. Student enrollment by courses, 1<sup>st</sup> year to final year is given in the Table 2. & Table 3.

**Table 2. Number of Students Admitted/On Roll (Undergraduate Programmes)**

Sl. No.	Degree Programme	Year					No. Passed out	Institute
		I	II	III	IV	V		
1	B.V.Sc. & A.H.	90	55	82	56	66	68	Veterinary College, Bangalore
2	B.V.Sc. & A.H.	68	55	62	46	61	53	Veterinary College, Bidar
3	B.V.Sc. & A.H.	07	31	20	-	-	-	Veterinary College, Shimoga
4	B.V.Sc. & A.H.	4	23	-	-	-	-	Veterinary College, Hassan
5	B.Tech (D.Tech)	28	20	24	23	-	23	Dairy Science College, Bangalore
6	B.Tech (D.Tech)	10	-	-	-	-	-	Dairy Science College, Gulbarga
7	B.F.Sc.	17	14	38	28	-	28	College of Fisheries, Mangalore



**Table 3. Number of students admitted to Postgraduate Programmes (Masters and Ph.D)**

Sl. No.	Department	Masters Degree		Ph. D.	
		On Roll	Completed	On Roll	Completed
<b>A Veterinary College, Hebbal, Bangalore</b>					
1	Vety. Anatomy & Histology	1	-	-	-
2	Vety. Physiology	-	1	-	-
3	Vety. Pharmacology & Toxicology	5	4	1	-
4	Vety. Pathology	6	-	3	-
5	Vety. Parasitology	4	1	1	-
6	Vety. Microbiology	5	2	2	-
7	Vety. Medicine	8	2	-	-
8	Vety. Surgery & Radiology	5	-	-	-
9	Vety. Gynaecology & Obstetrics	2	1	-	-
10	Animal Nutrition	3	2	1	1
11	Animal Genetics and Breeding	1	1	3	-
12	Livestock Production and Management	4	1	-	-
13	Livestock Production and Technology	1	-	-	-
14	Poultry Science	4	-	1	1
	<b>Total</b>	<b>49</b>	<b>15</b>	<b>12</b>	<b>2</b>
<b>B Veterinary College, Bidar</b>					
1	Veterinary Microbiology	02	04	-	-
2	Veterinary Surgery & Radiology	02	-	-	-
3	Veterinary Animal Husbandry & Extension	03	-	-	-
4	Veterinary Anatomy & Histology	01	-	-	-
5	ARGO	01	-	01	-
6	Animal Nutrition	-	01	-	-
	<b>Total</b>	<b>9</b>	<b>5</b>	<b>1</b>	<b>-</b>
<b>C Dairy Science College, Hebbal, Bangalore</b>					
1	Dairy Technology	09	03	03	-
2	Dairy Chemistry	06	-	01	-
3	Dairy Microbiology	02	-	-	-
	<b>Total</b>	<b>17</b>	<b>3</b>	<b>4</b>	<b>-D</b>
<b>D College of Fisheries, Mangalore</b>					
<b>I Master Degree</b>					
1	Aquaculture	7	-	3	-
2	Fishery Microbiology	7	-	10	-
3	Industrial Fishery Technology	6	-	-	-
4	Fish Processing Technology	-	-	2	-
5	Fisheries Environment & Ecology	11	-	2	-
6	Fisheries Resources & Management	2	-	1	-
	<b>Total</b>	<b>33</b>	<b>21</b>	<b>18</b>	<b>11</b>

## B) Academic Excellence

### UG Gold Medal

- The University Gold Medal, Dr. R.V.Patil Memorial Gold Medal-(Clinical), KVA Gold Medal-(Clinical), Dr. K. Y. Jagannathan GM-(Clinical Subjects), Dr. D.M.Karegowda Memorial Gold Medals (Vet. Medicine Subject) were awarded to Dr. Alok Nath Gupta for having

completed B.V.Sc. & A.H. Degree with highest OGPA.

- Dr. K.R. Alur Memorial Gold Medal-(Anatomy) was awarded to Dr. Jagadeesh, S.C., for scoring highest marks in Anatomy subject in B.V.Sc. & A. H. Degree.
- The University Gold Medals were awarded to Ms. Ashwini, M. R and Ms. Rashmi. H. M. for

having completed B.Tech (D.Tech) degree with highest OGPA.

- The University Gold Medal was awarded to **Mr. Omkar, V. Byadagi** for having completed B.F.Sc., degree with highest OGPA.

#### PG Gold Medal

- The University Gold Medal was awarded to **Dr. Sreejalekshmi, P** for having completed degree in M.V.Sc. (Veterinary Anatomy & Histology) with the highest OGPA in the Department.
- The University Gold Medal was awarded to **Dr. Shivaprasad, G. R.,** for having completed degree in M.V.Sc. (Veterinary Pharmacology & Toxicology) with the highest OGPA in the Department.
- The University Gold Medal and Late Smt. Saraswati Gurupadappa Nagamarapalli Memorial Gold Medal were awarded to **Dr. Kiren Menon** for having completed degree in M.V.Sc. (Animal Reproduction Gynaecology & Obstetrics) with the highest OGPA in the Department.
- The University Gold Medal was awarded to **Dr. Sumi Cherian** for having completed degree in M.V.Sc. (Veterinary Parasitology) with the highest OGPA in the Department.
- The University Gold Medal was awarded to **Mr. Srinivasa** for having completed degree in M.Tech. (Dairy Technology) with the highest OGPA.
- The University Gold Medal, Prof. P. Tauro Gold Medal and Prof. HPC Shetty Gold Medal were

awarded to **Ms. Safena, M. P.,** for having completed degree in M.F.Sc. (Fisheries Microbiology) (during 2007-08) with the highest OGPA.

#### Ph. D., Gold Medal

- The University Gold Medal was awarded to **Dr. Suma, N** for having completed degree in Ph.D., (Animal Nutrition) with the highest OGPA.
- The University Gold Medal and Mr. H. Sanjeevappa Gold Medal were awarded to **Dr. Sharmila, K** for having completed degree in Ph.D. (Poultry Science) with the highest OGPA.
- The University Gold Medal was awarded to **Dr. K. J. Ananda** for having completed degree in Ph.D., (Veterinary Parasitology) with the highest OGPA.
- The University Gold Medal was awarded to **Dr. Shankar, R** for having completed degree in Ph.D., (Aquaculture) (during 2007-08) with the highest OGPA.
- The University Gold Medal was awarded to **Dr. Jeffy George** for having completed degree in Ph.D., (Fishery Microbiology) with the highest OGPA.

#### C) Academic Research (Postgraduate Research)

During the academic year 2008-09 total of 48 thesis were submitted; out of which, 38 were for Masters Degree and 10 for Ph.D submitted by the Masters students and Ph.D. scholars were accepted by the University for award of M.V.Sc / M.F.Sc / M.Tech (D.Tech) and Ph.D., in respective subjects. The details are furnished in the Table 4.

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**Table 4. Thesis Accepted during 2008-09**

*Thesis submitted at Veterinary College, Bangalore.*

Sl. No.	Thesis Title	Name of the Student	Degree	Major Advisor and Dept.
1.	Studies on Prevalence and Treatment of Mastitis in Cows	Peer Mohammad S.	Master	Dr. S. Yathiraj Vety. Medicine
2.	Studies on broiler chick mortality in certain districts of Karnataka State	Gaurav Kumar	Master	Dr. H.A. Upendra Vety. Medicine
3.	Nutritional evaluation of Azolla ( <i>Azolla pinnata</i> ) and its supplementary effect on in vitro digestibility of crop residues	Ramesh Hebbali	Master	Dr. Gideon Glori Doss Animal Nutrition
4.	Long term effect of feeding detoxified Castor ( <i>Ricinus communis</i> ) bean meal based concentrate mixtures on the performance of stall fed goat kids	Nagesh H	Master	Dr. T.M. Prabhu Animal Nutrition
5.	Morphological features of ovarian follicular tressia in Buffaloes ( <i>Bubalus bubalis</i> )	Sreejalakshmi P.	Master	Dr. R.V. Prasad Anatomy & Histology
6.	A clinical study on prostatic diseases of dogs	Kiren Menon	Master	Dr. M. Devaraj ARGO
7.	Physiological indicators of postpartum fertility in cattle	Veena M.P.	Master	Dr. V. Girish Kumar Vet. Physiology
8.	Pathology of Ochratoxiosis and its amelioration with toxin binder and herbal oil in broiler chickens	Anitha N.	Master	Dr. H.D. Narayanaswamy Vet. Pathology
9.	Studies on interactive effects of Aflatoxicosis & Coccidiosis & evaluation of herbal anti coccidial efficacy in broiler chickens	Pradeep Kumar P.G.	Master	Dr. Suguna Rao Vet. Pathology
10.	Studies on Aflatoxicosis and ameliorating effects of a toxin binder & herbal oil in broiler chicken	Senthil Kumar D.	Master	Dr. Suguna Rao Vet. Pathology
11.	Pharmacokinetics of Norfloxacin after single per-oral administration and interaction following Curcumin ( <i>Curcuma longa L.</i> ) pretreatment in rabbits	Pavithra B.H.	Master	Dr. N. Prakash Vet., Pharmacology
12.	Toxicity studies of fungal isolates from maize hulls in rats and mice	Venkanna Balaganur	Master	Dr. N.B. Shridhar Vet. Pharmacology
13.	Effect of different levels of energy intake of milk yield and SNF content in crossbred dairy cows	Mrudhula S. Dathan	Master	Dr. R. Bhaskaran LPM
14.	Isolation and molecular characterization of Mycoplasma species from poultry	Saritha N.S.	Master	Dr. B.M. Veeregowda Vet. Microbiology
15.	Evaluation of bovine mastitis causing <i>Escherichia coli</i> biofilm based vaccine in rabbits	Kavitha G.	Master	Dr. D. Rathnamma Vet. Microbiology
16.	Evaluation of purified yeast expressed recombinant VP7 protein of bluetongue virus for immunodiagnosis	Ramesh C.B.	Master	Dr. Byregouda S.M. Vet. Microbiology
17.	Evaluation of nutritive value of Ragi and Sorghum replacing yellow maize vis-à-vis in presence of soy oil, fish oil and enzyme in broiler diets	K. Venkata Reddy	Ph.D.	Dr. K.S. Prathapkumar Poultry Science

18	Effect of types of silkworm pupae meal and enzyme fortification on performance, lipid profile and immunological status in broilers	Sharmila K.	Master	Dr. T. Munegowda Poultry Science
19	Studies on the prediction of parturition date in bitches	Bhagirathi Pugashetti	Ph.D.	Dr. A. Krishnaswamy ARGO

#### B) Veterinary College, Bidar

Sl. No.	Thesis Title	Name of the Student	Degree	Major Advisor and Dept.
1.	Isolation of characterisation and study on immunogenicity of outer membrane proteins of <i>E.coli</i> from poultry	Suresh M.	Master	Dr. Y. Hari Babu Vety. Microbiology
2	Evaluation of DCP and nylon plates for distal radioulnar and olecranon fractures in dogs	Md. Abdullah	Master	Dr. B.V. Shivaprakash VSR
3	Studies on chronic rumen impaction due to plastic materials in cattle and buffaloes	Prahlad Boodur	Master	Dr. B.V. Shivaprakash VSR
4	Studies on effect of dietary supplementation of pulvis curcuma longa on the performance of broiler rabbits under summer stress	Basavaraj M.	Master	Dr. Nagabhushana V. Animal Nutrition

#### C) Dairy Science College, Bangalore

Sl. No.	Thesis Title	Name of the Student	Degree	Major Advisor and Dept.
1	Development of probiotic and bioactive Peptide based ice-cream	Santosh B.	Master	Dr. H.M. Jayaprakasha Dairy Tech.
2	Studies on the development of enriched probiotic shrikhand	Srinivasa	Master	Dr. H. Arun Kumar Dairy Tech.
3	Development of Long Shelf Life Enriched Probiotic Lassi	Manuka krishna	Master	Dr. B.V. Venkateshaiah Dairy Tech.

#### D) College of Fisheries, Mangalore

Sl. No.	Thesis Title	Name of the Student	Degree	Major Advisor and Dept.
1	Effect of chitin on immune response, growth and survival of gaint freshwater prawan, <i>Macrobrachium rosenbergii</i> (De man)	Naveenkumar B.T.	Master	Dr. H. Shivanand Murthy Aquaculture
2	Evaluation of rapid dot for detection of white syndrome virus shrimp culture system	Amod Kulkarni	Master	Dr. K.M. Shankar Aquaculture
3	Characterization of monoclonal antibodies raised against proteins of <i>Penaeus monodon</i>	Abhiman	Master	Dr. K.M. Shankar Aquaculture
4	Effect of brewer's yeast on immune responses, survival and growth of giant freshwater prawn, <i>Macrobrachium rosenbergii</i> (De Man)	Prakash Parmar	Master	Dr. H. Shivanand Murthy Aquaculture
5	Studies on effect of claw ablation on growth and survival of <i>Macrobrachium rosenbergii</i> (De Man)	Shivkumar	Ph.D.	Dr. H. Shivanand Murthy Aquaculture
6	Efficacy of nucleotides in enhancing immune response and disease resistance against white muscle disease in glant freshwater prawn <i>Macrobrachium rosenbergii</i> (DeMan)	Shankar R.	Ph.D.	Dr. H. Shivanand Murthy Aquaculture





7	Species characterization and some aspects of reproductive biology of <i>Silago sihama</i> (Forskaal)	Vinod B.H.	Ph.D.	Dr. N. Basavaraja Aquaculture
8	Monoclonal antibodies for characterization and detection of Immunoglobulins of India Major Carp, <i>Catla catla</i> (Hamilton)	Honnanda B.R.	Ph.D.	Dr. K.M. Shankar Aquaculture
9	Study on Natural Reservoirs of Shrimp Pathogenic Viruses	Mohan SA	Master	Dr. M.N. Venugopal Fishery Microbiology
10	Evaluation of PCR primers in detection of Infections Hypodermal and Hematopoietic Necrosis Virus (IHNV) from India	Praveen Rai	Master	Dr. Indrani Karunasagar Fishery Microbiology
12	Prevalence of Edwardsiella species in Aquatic Environment	Mahesh Shetty	Master	Dr. M.N. Venugopal Fishery Microbiology
13	Molecular studies on Hepatopancreatic Parvovirus (HPV)	Safeena M P	Master	Dr. Indrani Karunasagar Fishery Microbiology
14	Genotyping of White Spot Syndrome Virus prevalent in India	Pradeep B.	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology
15	Cloning and expression of shrimp defense proteins	Anuj Tyagi	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology
16	Cloning and expression of antimicrobial peptide genes for the development of transgenic fish	Jeffy George	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology
17	Studies on some aspects of the biology of <i>Saurida undosquamis</i> (Richardson, 1848) from Mangalore waters	Nagesh M.	Master	Dr. S. Benakappa Fisheries Resource Management
18	Limnology of nethravathi river at Thumbe and Sarapadi vented dams of Dakshina Kannada	Himantharaju R.	Master	Prof. R.J. Katti Fisheries Environment and Ecology
19	Some ecological aspects of the clam beds in Gurpur Estuary, Dakshina Kannada	Rajanna J.	Master	Dr. Gangadhara Gowda Fisheries Env. and Ecology
20	Development of convenience production from minced meat of big eye ( <i>Priacanthus hamrur</i> ) fish	Chandan C.	Master	Dr. R.M. Prabhu Industrial Fishery Technology
21	Use of bacteriocins from Lactic Acid Bacteria in Preservation of Fish and Fishery Products	Elavarasan k	Master	Dr. B.A. Shamsundar Ind. Fishery Technology
22	Properties of transglutaminase from marine and freshwater fishes: Influence on the setting ability and thermal gelation.	Ms. Binsi P.K.	Ph.D.	Dr. B.A. Shamasundar Fisheries Processing Technology

**Abstract:****I. Faculty of Veterinary & Animal Science**

Master : 21  
 Doctoral : 02

**II. Faculty of Dairy Science**

Master : 03  
 Doctoral : --

**III. Faculty of Fisheries**

Master : 14  
 Doctoral : 08

**Total No. of Master 38 & Doctoral - 10**

## D) Library and services

### University Librarian (I/c): Prof. H. Shivananda Murthy

The Karnataka Veterinary, Animal and Fisheries Sciences University has a Central Library at University Headquarter, Bidar and Regional Campus Library at Bangalore and Campus libraries at Mangalore, Shimoga and Hassan.

### Regional Campus, Bangalore

The Regional Campus Library, Bangalore, which cater to the needs of Veterinary College & Dairy Science College, Hebbal, Bangalore has good number of collections over the year. Total number of 350 students usage membership reported, out of which 179 students belong to B.V.Sc. & A.H., 85 students to B.Tech (D.Tech), 57 students to M.V.Sc., 30 students to M.Tech (D.Tech) and rest were Ph.D., scholars.

### Acquisition of Books

The Campus Library has 114 General Books (ICAR & University Grants) and 157 ST Books (Tribal Welfare Department). Apart from these, the College Library subscribed to more than 38 Periodicals. The Library has more than 50 Clipping Services related to Veterinary, Animal Husbandry, Dairy and Fisheries.

### E-Resources Center

E-Resources Center was established and providing services of online journals and journals of Consortium for e-Resources in Agriculture (CeRA).

### Veterinary College, Bidar

The Veterinary College, Bidar has total number of 338 students and staff usage membership reported, out of which 50 are staff, 280 UG students belong to B.V.Sc. & A.H., 08 to PG students. The University Central Library has good number of book collections. Out of which, 48,971 Books, 22,224 Back Volumes, 1,052 Current Journals and total number of volumes in the library is 72,247 during the period.

### Acquisition of books

The library book stack has been enhanced by 408 reference/ textbooks worth of Rs. 5.1 lakhs. The library has Subscribed CD-ROM i.e. VET-CD database (1972-2008) for Rs. 3.56 lakhs and subscribed to 34 Indian and 09 foreign journals with a cost of Rs. 4.07/- lakhs to keep the students and faculty abreast of the latest

scientific & technical developments both in India and abroad. Beside these, the library subscribed to 16 Nos. general magazines and 08. News papers and received 16 titles of News letters, Annual Reports and Popular Magazines and other gratis publications from SAUs, ICAR institutes and other Indian organizations.

### E-Resources Center

E-Resources Center was established and providing services of online journals and journals of Consortium for e-Resources in Agriculture (CeRA).

*Clipping services etc.* - Clipping services pertaining to Veterinary/ Animal, Dairy and Fisheries were also provided to students and faculty.

### Veterinary College, Shimoga

The Veterinary College, Shimoga has 78 students and staff usage membership reported, out of which 58 students belonged to B.V.Sc. & A.H and 20 college staff. The Library has 1886 Technical Books and subscribed to 2 Periodicals.

### Veterinary College, Hassan

The Veterinary College, Hassan has total number of 35 visitors per day has been recorded. The Library has 1370 Technical Books and 6 Periodicals were subscribed.

### Dairy Science College, Gulbarga

The Dairy Science College, Gulbarga has total number of usage 20 and 220 books were procured for the benefit of students in the library.

### College of Fisheries, Mangalore

The College of Fisheries, Mangalore has users 250. The Library has 13,250 Technical Books and 47 Periodicals.

## E. Student Welfare Activities

### a) Sports and Cultural Activities of Veterinary College, Hebbal, Bangalore

i) 4<sup>th</sup> Intercollegiate games and sports meet of KVAFSU, Bidar was held from 3<sup>rd</sup> to 6<sup>th</sup> November, 2008 at Veterinary College, Hebbal, Bangalore

The following prizes were won by the College students under various events

Sl.No	Events	Place (Men)	Place (Women)
1	Volleyball	Winners	Winners
2	Table tennis	Second	Runners
3	Shuttle Badminton	Runners	Winners
4	100m running	Third	
5	200m running	Second	
6	400 m relay		Third
7	800m running	Third	
8	Short put	Third	
9	High jump	First	Second
10	Long jump	Third	
11	Javelin throw	Second	First
12	Triple jump	First	
13	Basket ball	winners	

ii) 10<sup>th</sup> All India Agricultural University Games and Sports meet 2008-09 was held at Jawaharla Nehru Krishi Vishwa Vidhyapeet, Jabalpur (MP) during 03-03-2009 to 06-03-09. Veterinary College, Bangalore team won First prize in Table tennis (Women) and Second prize in Volleyball( Men).

#### Youth Festivals and co-curricular activities

##### i) Freshers Day 2008



Freshers Day " Resonance was celebrated on 22<sup>nd</sup> October, 2008 at Kannada Sahbangana to Welcome the freshers admitted for the academic year 2008-09. Prof. Suresh S.Honnapagol, Hon'ble Vice-Chancellor, KVAFSU, Bidar inaugurated the programme, Dr.Bisiliah, Former Vive Chancellor, UAS, Bangalore, Dr. K.S.Rao, Senior Director of Advinus Therapeutics were the Chief Guests and they addressed the freshers. Dr. S.Yathiraj, Dean, Veterinary College, Bangalore presided over the programme. The whole programme was organized by the Second and Third year students of the College. There was a cultural programme by senior students and freshers.



ii) Inter College Youth Festival "Samudra Manthana 2008" was held during 22<sup>nd</sup> to 24<sup>th</sup> May 2008 at College of Fisheries, Mangalore.

The following is the list of events in which prizes were won

Sl.No	Events	Place
1	Folk dance	First
2	One act play	First
3	Skit	Third
4	Mime	Third
5	Monoacting	Third
6	Group song(Folk)	First
7	Patritic song	First
8	Kannada debate	Second
9	Kannada elocution	First
10	Kannada Extempore	First
11	English debate(2)	First and Second
12	English elocution	Second
13	English extempore	Second
14	Rangoli	First
15	On the spot painting	First
16	Cartooning	First
17	Poster making	First

iii) Inter University (SAUs) Youth festival held at GKVK, Bangalore during 4<sup>th</sup> to 9<sup>th</sup> February 2009

Our College students participated and won First prize in cartooning and third prize in on the spot painting competition.

##### iv) Gold Vet Fest

Veterinary College, KVAFSU, Bangalore organized a mega cultural festival "Gold Vet Fest" during 27-29 November, 2008 in connection with Golden Jubilee Celebrations of the Veterinary College. Prof H. A. Upendra was the Organizing Secretary of this event.



Competitions in the filed of fine arts, literary and theater activities totally 16 competitions were held for students of various Colleges in Bangalore as well as constituent Colleges of KVAFSU, Bidar. A total of 12 Colleges participated in the three days events.



Cine artist Smt. Shruthi Mahendra, Sri Mahendra and President, Karnataka Nataka Academy Sri Rajaram were the Chief guests for inaugural function and Hon'ble Vice Chancellor Prof. Suresh, S. Honnappagol presided over the function. Veterinary College



#### Co-Curricular Activities

Zydus Animal health Ltd a premier Animal Health Company organized Drawing-Painting Competition at College and National Level. Our College students participated by sending their drawings to the company and the following students won the cash prizes at College level.

Mr. Madan VHK 730 First Prize (Rs.1500/-)

Mr. Bharath VHK 710- second Prize (Rs.1000/-)

Mr. Avinash.B.Gowda-Third Prize (Rs.750/-)

#### b) Sports and Cultural Activities of Veterinary College, Bidar

4<sup>th</sup> intercollegiate sport and games meet and Chess tournaments were organized by the Veterinary College, Bidar from 3-11-08 to 6-11-08 at Nehru Stadium. All constituent Colleges participated in the events. Veterinary College Bidar bagged runner up position and Mr. Vittal Koujalagi secured men's Individual Championship (Athletic events). Veterinary College, Bidar also won KVAFSU Intercollegiate cricket tournament held at Veterinary College, Bangalore from 18-10-08 to 22-10-08. the college also won KVAFSU intercollegiate football tournament held at Dairy Science College, Bangalore from 3-12-08 to 5-12-08.

#### Youth Festivals and Other Co-Curricular Activities

It is a matter of pride for the Veterinary College, Bidar that outgoing students of Final Year B.V.Sc. & A.H.

have performed well with National Ranking in ICAR JRF Examination 2009 and secured PG admissions in many national level institutes including IVRI, Izzatnagar, NDRI, Karnal, Madras Veterinary College, Chennai.

In co-curricular activities, the students have secured Overall 3<sup>rd</sup> Position in the Intercollegiate Youth Festival held at College of Fisheries, Mangalore in the Month of September, 2008. The Veterinary College, Bidar Cricket Team is the Joint Winner of Intercollegiate Cricket tournaments held at Bangalore during October 2008. The Students actively participated in Athletic and Sports meet held at Bidar during 3<sup>rd</sup> to 6<sup>th</sup> November 2008 and bagged Runners Trophy.

#### Student Association participated in following programmes during the year 2008-09

1. Ambedkar Jayanathi on 14-04-2008
2. Basava Jayanathi on 27-04-2008
3. Teacher's day celebrations 05-09-2008
4. A Technical workshop was organized on 13-11-2008 to commemorate the start of Silver Jubilee year of Veterinary College, Bidar.
5. The student Association actively participated in 24<sup>rd</sup> College Foundation Day on 14-11-2008. A College Magazine "YUVA SPHOORTHY" was published to commemorate the occasion.
6. World Veterinary Day was celebrated on 25-04-2009 with great fervor. Dr. Sagari Ramdas, CEO, ANTHARA, a Hyderabad based NGO, delivered a speech on "Role of Veterinarian in rural livestock owners livelihood". Prof. Suresh, S. Honnappagol, Hon'ble Vice Chancellor, KVAFSU, Dr. H. Shivanand Murthy, Director of Extension, Dr. S.M. Usturge, Director of Instructions (PGS), Dr. Y Hari Babu, Dean, Veterinary College, Bidar participated in the programme.

The students actively participated in Blood Donation Camp on 30-05-2009 organized by Red Cross Youth Wing, Veterinary College, Bidar, to mark World Red Cross Day.

#### c) Sports and Cultural Activities of Veterinary College, Shimoga

- The college team participated in the Inter Collegiate Cricket Tournament held at Veterinary College, Hebbal, Bangalore from 18<sup>th</sup> to 22<sup>nd</sup> October, 2008
- The college team participated in the Sports and Game Meet held at Veterinary College, Bidar from 3<sup>rd</sup> to 6<sup>th</sup> November, 2008 and won the following medals



Sf. No.	Name	Class	Position & Event
1	Shruthi, S.K	I B.V.Sc. & AH	2 <sup>nd</sup> place in 400 & 800 meters race
2	Nagaraj, K.H	III B.V.Sc. & AH	3 <sup>rd</sup> place in 100 meters race
3	Siddarooda Mukeshi	II B.V.Sc. & AH	3 <sup>rd</sup> place in triple jump

- Veterinary College, Shimoga declared as a Best march fast team
- The College team participated in the Football tournament held at Dairy Science College, Bangalore from 3<sup>rd</sup> to 5<sup>th</sup> December, 2008.
- Mr. Lohit, Asst. Prof. (PEd.) attended the coaching camp and trained the KVAFSU, Bidar volleyball team and accompanied University volleyball team as a volleyball coach in the 10<sup>th</sup> all India Inter-Agricultural Sports and Games Meet held at Jabalpur (MP) from 3<sup>rd</sup> to 6<sup>th</sup> March, 2009 and secured 2<sup>nd</sup> place.
- Assisted NSS Co-ordinator in the Regular NSS activities and participated in the 7 days NSS Special camp held at Konagavalli (Birth place of Sri. Lankesh) from 20<sup>th</sup> to 26<sup>th</sup> January, 2009.

#### b) Youth Festival etc.

Students of Veterinary College, Shimoga participated in the Inter-Campus Youth Festival held between 22<sup>nd</sup> and 24<sup>th</sup> September, 2008 at Fisheries College, Mangalore and were successful in winning following prizes

#### List of Prizes won

1. Light Vocal	II Prize	Yashasvi Naravi
2. Group Song	III Prize	Karthik, Y.A. Ramesha, K. Kiran, M. Mallikarjuna Rayappa Hliger Nandeesh, C. Sadanand Khandekar Rakesh, K.
3. Debate (Kannada)	I Prize	
4. Extempore (Kannada)	II Prize,	Rakesh, K.
5. One Act Play	III Prize	Karthik, Y.A. Nagaraj, K.H. Prashant Talawar Ranjitha, V.H. Venkatesh, S.M. Chaithanya, M. Kaviraj Airani Kiran, M. Mohammed Arif
6. Mono acting	I Prize	Gowrav Adiga
7. Collage	II Prize	Naveen Kumar, T.J.
8. Clay Modelling	II Prize	Swethashree, M.J.
9. Rangoli	II Prize	Ramesha, K.

In all, the college team won nine prizes out of the 20 events and stood fourth in the overall tally. Dr. Manjunatha, L and Dr. Kavitharani, B. accompanied the contingent as team managers.

#### d) Sports & Cultural Activities of Veterinary College, Hassan

1. The college team participated in the Inter Collegiate sports and games meet held at Veterinary College, Bidar on 3<sup>rd</sup> to 6<sup>th</sup> November, 2008. The Events participated were Athletics, Volley Ball, TT and Badminton.
  - i. Varalakshmi, A., Smitha.S and Honnavantheva, II B.V.Sc. & A.H. won the first prize in women's Table Tennis.
  - ii. Veena V., Varalakshmi A., Smitha S., Anusha V., Honnavantheva., Deepthi Shree R and Geetha.H.S. II B.V.Sc. & A.H. won the Second prize in women,s Volley Ball.
  - iii. Mr. Raghu Naik. K. II BVSc & A.H won the third prize in 400 mtrs
  - iv. Varalakshmi A., II B.V.Sc. & A.H. won the third prize in Discuss Throw.
  - v. TT(M), Foot Ball(M) lost in Semi-Finals.

2. University Representation Varalakshmi, A and Smitha S. II B.V.Sc.& A.H. have represented the KVAFSU, Bidar, in Table Tennis team during the all India Inter-Agricultural sports and games meet held at Madya Pradesh from 3<sup>rd</sup> to 6<sup>th</sup> January, 2009 and won the Gold medals.

#### Youth Festivals

1. The college team participated in the youth festival competition held at Fisheries College, Mangalore on 22<sup>nd</sup> to 24<sup>th</sup> September, 2008 and secured following prizes.
  - i. Varalakshmi, A., II B.V.Sc & A H : Clay modelling- Third
  - ii. Mirza Vaseem and Puneeth H.J. II & I B.V.Sc & A H : Quiz- Second
  - iii. Girls Team, II B.V.Sc & A H: Skit Second
  - iv. Darshan C.S. I B.V.Sc & A H: Kannada Debate Second
  - v. Madhukar, I B.V.Sc & A H: Kannada Elocution Third
  - vi. Darshan C.S., I B.V.Sc & A H: Kannada Extempore Second
  - vii. Mirza Vaseem, II B.V.Sc & A H: English Debate Third

2. Mirza Vasem, II B.V.Sc & A. H., represented KVAFSU Quiz team and participated in the All India Inter Agricultural Youth Festival Competition held at UAS, Bangalore on 5<sup>th</sup> to 9<sup>th</sup> February, 2009.
3. Dr. M.S. Vasanth participated as Selection Committee member for selecting University team for Youth Festival at Fisheries College, Mangalore.

**e) Sports & Cultural Activities of Dairy Science College, Hebbal, Bangalore**

The Department of Physical Education has assisted the University in organizing Republic Day and Independence Day. The students of the College were trained for participation in sports and games for Inter-collegiate tournaments and track and field events.

- The College team participated in the intercollegiate cricket tournament 2008-09 which was organized by the Veterinary College, Bangalore from 18-24 October 2008.
- The College team participated in the intercollegiate sports and games meet 2008-09 which was organized by the Veterinary College, Bidar from 3-6 November 2008.
- Five students of the Dairy Science College listed below were selected to represent the University team at the 10<sup>th</sup> All India Inter Agricultural University Sports and Games Meet 2008-09 held at Jabalpur, M. P. :

Sl. No.	Name	ID No.	Year
1	Archana, M.	DK 501	IV Year B.Tech. (D.Tech.)
2	Nandini, M.	DK 513	IV Year B.Tech. (D.Tech.)
3	Kishore Kumar, V.	DK 511	IV Year B.Tech. (D.Tech.)
4	Madhu, M. V.	DK 608	III Year B.Tech. (D.Tech.)
5	Latha, S. A.	DHK 804	I Year B.Tech. (D.Tech.)

**Youth Festival**

- i) Inter campus youth festival KVAFSU-Bidar 2008-09 was conducted at the College of Fisheries, Mangalore campus during 22-24 September, 2008.

Dr. H. Manjunatha, Assistant Professor, Dept. of Dairy Microbiology and Mr. Sharanagouda. B., Assistant Professor, Dept. of Dairy Technology accompanied 22 students of the Dairy Science College, Bangalore who participated in various events and won the following prizes.

Sl. No.	Events	Prize Won
1	Folk Dance	II
2	Cartooning	II
3	Rangoli	III
4	Monoacting	II
5	On the Spot painting	II
6	Poster making	III

- ii) Inter University Youth Festival conducted by UAS, Bangalore during 5-9<sup>th</sup> Feb., 2009. Mr. Sharanagouda. B., Assistant Professor, Dept. of Dairy Technology, Dairy Science College, accompanied the KVAFSU team.

**College Day Celebrations**

- ❖ The Dairy Science College, Hebbal, Bangalore celebrated its Annual College Day on 14<sup>th</sup> May,
- ❖ The College magazine 'Navaneeta' was released on this occasion.
- ❖ Professor Gopal Naik, Director, Centre for Policy Studies, I.I.M., Bangalore, was the Chief Guest and Dr. G. N. Shiva Reddy, Managing Director, Mysore & Chamarajanagara Milk Producers Co-operative Milk Union Ltd. and Shri. H.C. Shivananda, Dairy Technologist an alumnus of this College were invited as Guests of Honour for the College Day celebrations. Dr. B.V. Venkateshaiah, Dean, Dairy Science College, presided over the function.
- ❖ Various sports and cultural events were conducted at interclass level. Students participated actively and prizes were distributed to the students on the College Day.

**Fresher's Day**

- ❖ Freshers Day 'Konaru' 2008-09 was organized on 18.9.2008. Prof. Suresh S. Honnappagol, Hon'ble Vice Chancellor, KVAFSU was the Chief Guest for this programme. Sri. Prince Charles, Director, NDD8 and alumnus of this College was the Guest of Honour while Dr. Gopal Gowda, Hon'ble Member, Board of Management, KVAFSU was invited as a special invitee and Dr. B. V. Venkateshaiah, Dean, Dairy Science College presided over the function.



the bull center can make provision for collecting the testicles. Hence, the present study was conducted in the dog testicles. A total of six testicles obtained from ABC programme at Kengeri was used for the study. The study revealed for presence of 22 protein bands when analysed by SDS-PAGE. The number of protein bands between 15 and 20 kDa, > 20 - 36, >36 - 47 and > 47 - 118 kDa were 4, 4, 7 and 7 bands respectively. The samples when subjected for 2DE revealed for proteins spots concentrated between pKa value of 8.65 and 5.20 and very few spots that were having pKa of < 5.20.

#### **"Prediction equation for body weight in Kenguri sheep"**

Body weight of kenguri sheep WAS predicted based upon the chest girth, flank width and length of an animal using the data collected from flock of sixty eight kenguri sheep of age group of 6 months to 12 months collected from sheep herd maintained at Veterinary college, Bidar, and from shepherds flock in its breeding tract. The data has been analysed for prediction equation of body weight based upon the chest girth, flank width and length of an animal of kenguri sheep which was discussed in the last technical meeting of animal sciences during 2006-07 is completed. Based on the analysis it was concluded that model ( $Y = -40.07L + 0.622G + 1.322F$ ) where L, G and F are length, girth and flank is the best model for predicting the body weight of kenguri breed of sheep.

#### **"Evaluation of AV/ALP/17 & AV/CSP/14 in improving growth performance and carcass quality in broilers."**

The herbal products treatment of broilers improved growth & overall performance of broilers with enhancing economy of rearing.

1. The addition of herbal products in broiler feeding had positive effects on serum profile studies in broilers.
2. Incorporation of herbal products in broiler diets resulted in improved immuno-modulatory parameters.
3. The supplementation of herbal products enhanced the meat quality of broilers.
4. The tibial growth in broilers was improved through supplementation of herbal products.

#### **"Evaluation of toxic potential of Cypermethrin with Special reference to testicular toxicity in albino mice"**

The study indicated the deleterious effects of  $\alpha$ -CP on male reproductive organs, especially testes and its

important endocrine functions viz. biosynthesis and secretion of testosterone.

Two articles related to the research have been sent for publication.

♦ N.Prakash, M.Vijay Kumar, Shrikant Kulkarni, U. Sunilchandra and B.H.Pavitra (2009), Evaluation of toxic potential of short term exposure to cypermethrin in Swiss albino mice ;sent to *Tamilnadu Journal of Veterinary and Animal Sciences, Chennai*

♦ N. Prakash.U. M.Vijay Kumar. U.Sunilchandra, Ashok Pawar and B.H .Pavithra(2009): Characterization of testicular toxicity in short term exposure to Cypermethrin in albino mice. sent to *Toxicology International, India*

#### **"Seroprevalence of Brucellosis in sheep & goat in & around Bidar"**

This project has winded up with the results of 5.30% incidence of Brucellosis, where total number of animals screened were 245 & 13 found positive for Brucellosis.

#### **"An Action Research for Self Employment of SC/ST Youth through Goat Rearing under Stall Feeding as a Strategy for Poverty Alleviation and Sustainable Development in Hyderabad Karnataka Region"**

Eighteen LIGs were promoted in the similar concept of SHGs by involving 200 unemployed SC/ST youth, out of which 113 are men and 77 are women. Beneficiaries were trained on scientific Bidri goat rearing by organizing 37 on campus and 35 on farm trainings, 16 demonstrations and 2 on farm trails. The LIG members were integrated with Bidri goat rearing as an IGA by distributing 4 goats and 1 manger for each beneficiary. The unit cost for each beneficiary is Rs. 5000/- of which 50% is contributed by the beneficiary. Till date the beneficiaries earned an income of Rs. 11800/- and Rs. 3600 in phase I and II respectively. The goat rearing activity also generated a total of 270 man days of employment per year. The project activities created an asset of 4200 goats and 200 mangers among the 200 beneficiaries of lower socio-economic strata. Further, goat rearing activity also contributed towards balanced nutrition of rural poor through milk and meat. The community in the project area is sensitized to take up Bidri goat rearing for self- employment and income generation by utilizing available pulse based crop residues for feeding of goats under stall feeding. The project also created an impact on HDI indicators especially on income and gradual progress in education followed by life expectancy among the beneficiaries. The health coverage of goats, marketing linkages, Insurance of goats etc., were provided for the

and Dr. K. V. Kulkarni, Joint Director (Extension Training and Education, Dept. of AH & VS) was the Chief Guest.

**Subject Matter Specialists participated in the programme**

1. Dr. S. Yathiraj	Medicine
2. Dr. B.N. Nagaraj	Surgery
3. Dr. P.T. Ramesh	Medicine
4. Dr. V.C. Murthy	ARGO
5. Dr. S. Wilfred Ruban	LPT
6. Dr. G. Sudha	ARGO

**Guest Lectures on the following topics were delivered**

- ❖ Role of Animal Husbandry in development of Nation by Dr. K. Sathyanarayan Associate Professor, Dept. of AHE.
- ❖ Aids awareness by Dr. Sandhya Belavadi, Dean, Prof & HOD, Dept. of Microbiology, MS Ramaiah College.
- ❖ Global Warming by Dr. V. Girish Kumar, Professor & Head, Dept. of Biochemistry
- ❖ Natural Disasters and livestock farming by Dr. V. S. Prakash, Director, Natural Disaster Management cell, GOK.
- ❖ Ground water management and Rain water harvesting, Dr. K. Pandurangaiah Coordinator, Water shed Development, UAS (B).

- ❖ The role of youth in nation building by Dr. M. Jayaprakash, Veterinary Officer
- ❖ Veterinary Profession and Literature by Dr. M. Narayanaswamy, Professor, Dept. of Physiology
- ❖ Role of Social Forestry in Balancing the nature by Dr. D. Nuthan Associate Director of Research, UAS (B)
- ❖ Medical astrology for healthy living Dr. N. Ramesh Rao Medical Astrologer, Bangalore

**Camp Abstract (animals checked)**

Vaccination for FMD	: 286 (Cows and Sheep)
Deforming	: 154 (Calves, sheep and Goat)
Surgical case	: 06
Medicinal cases	: 38
Gynecological cases	: 67
<b>Total</b>	<b>: 551</b>

Note: Students were trained specially for I/V infusion of fluids, rectal examination, pregnancy diagnosis, vaccination and deworming schedules.

**Other Activities:**

Students were taken to Dharitri Foundation Dairy farm and demonstration was given regarding clean milk production and modern dairy farming. Students as a part of NSS activity were taken for trekking to Shivaganga Hills and Devarayana Durga Hills.



**b) NSS Unit of Veterinary College, Bidar**

National Service Scheme (NSS) special camp of one week was organized at Polakpally village of Humnabad taluk from 30-3-2009 to 5-4-2009. This camp was organized by Dr. M.K. Tandle and Dr. Sandeep H, NSS programme officers of Unit 1&2 of Veterinary College, Bidar where 128 BVSc& AH 1<sup>st</sup> & 2<sup>nd</sup> year boys and girls participated. The camp was inaugurated by Prof. Suresh S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU, Bidar on 30-3-2009. The other guests present on this occasion were Smt. Lata S. Honnappagol, Smt. Mangala Bhagwat, Zonal Coordinator, Rotary International,

Bidar, Dr. Y. Haribabu, Dean (Vet) and Dr. K.C. Veeranna, NSS Coordinator, KVAFSU, Bidar. On 31-3-2009 a free health check up camp including dental and eye testing was organized. The patients were treated by Dr. Mahadev Swamy, Taluka Medical Officer, Humnabad, Dr. Shivashankar Bomma, Medical Officer, Changler, Dr. Jagdish Telang, Dental Surgeon from Dental College, Humnabad and Megur Eye Center, Bidar. On 1 & 2 April 2009 the premises of newly constructed Govt. school and dairy co-operative society were cleaned by the NSS volunteers. On 2-4-2009 the guests Mrs. Mangala Bhagwat, Zonal Coordinator, Rotary International,





#### **F) Sports and Cultural Activities of College of Fisheries, Mangalore**

Intramural sports were conducted in various events like volleyball, cricket, Football, Badminton, Table tennis and Basket ball for the mass participation of students. Annual athletic meet for 2008-09 was organized on 8<sup>th</sup> April 2009 in almost all athletic events for both men and women section.

*Cultural competition:* Intramural cultural competitions also conducted in various events as a part of college day celebrations held on 12<sup>th</sup> April, 2009.

#### **Youth Festivals etc.**

The Inter Campus Youth Festival of KVAFSU, Bidar was held during 22<sup>nd</sup> to 24<sup>th</sup> September, 2008 at College of Fisheries, Mangalore. The three day cultural programme was inaugurated by Shri Anand Asnotikar, Hon'ble Minister of Fisheries Science and Technology, Government of Karnataka. The other guests were Shri. Monappa Karkera, Dr. H.T. Mohan Kumar, Hon'ble Members of Board of Management KVAFSU and Dr. M. Mohan Alva, President Alva's Education Trust, Moodbidri, D.K.; Shri N Yogish Bhat, MLA presided over the function.

A total of 21 events were conducted. The over all championship was bagged by Veterinary College, Bangalore and the second place was aged by College of Fisheries, Mangalore.

#### **Fishco Festival 2009**

College of Fisheries, Mangalore organized the 'Fishco Festival 2009' at its premises during 9, 10 and 11 January, 2009. In the District level Inter-Collegiate Literary, Cultural and Fine arts Competitions, were conducted, where in more than 38 colleges of DK and Udupi districts with more than 2500 students participated. Prof. Suresh S Honnappagol, Hon'ble vice chancellor, KVAFSU, Bidar inaugurated the festival on 9<sup>th</sup> January, 2009. In this inaugural address he remarked that that such youth festivals enable students to appreciate the imbibe the great Indian culture and heritage. It helps them to become peace loving responsible citizens of India.

Shri Nagathihalli Chandrashekar, Noted Poet, writer and Film director was the chief guest. Shri Monappa Karkera and Dr. H.T. Mohan Kumar, Hon'ble Members of Board of Management KVAFSU, Bidar were the Guest of Honours. Dr. Y. Basavaraju, Dean, College of Fisheries, presided over the function.

In all, over 22 events were conducted spread over three days. Alva's College, Moodbidri was adjudged the overall champions of the Festival followed by SDM College of Business Management as second place.

#### **Fresher's Day**

The Fresher's day was held on 23.10.2008. Mr. V.K. Sheety, Managing Director, KFDC, Mangalore was the chief guest, Mrs Kripa Alva, Former Governor Lions Club, Mangalore was the guest of honour, Dr. Y. Basavaraju, Dean (Fisheries) presided over the function. The newly admitted first year B.F.Sc., students performed various cultural events.

#### **F) National Service Scheme (NSS)**

The NSS volunteers of the constituent colleges have actively participated in NSS special camps during the year 2008-09. Various NSS activities of constituent colleges conducted are furnished.

##### **a) NSS Unit of Veterinary College, Hebbal, Bangalore**

##### **NSS Program Officers**

1. Dr. P. T. Ramesh, Associate Professor, Dept. of Medicine
2. Dr. V. C. Murthy, Assistant Professor, Dept. of ARGO

##### **NSS Camp Officers**

1. Dr. S. Wilfred Ruban, Assistant Professor, Dept. of LPT
2. Dr. G. Sudha, Assistant Professor, Dept. of ARGO

##### **Regular activities conducted**

##### **1. Shramadhana**

- a. Cleaning up of the premises opposite to the new proposed Library Building
- b. Cleaning of Veterinary College Campus
- c. Cleaning around Veterinary College Boys and Girls Hostel
- d. Preparation of Sports field opposite to Veterinary College, Boys Hostel

##### **2. Classroom activities**

- a. Highlighting the objectives of NSS
- b. Leadership development
- c. Personality development
- d. Disaster Management

##### **Camp activities carried out**

Ten days NSS annual camp was organized at Narsapur Village during April 17-25, 2008, which was inaugurated by Dr. S. Yathiraj, Dean, Veterinary College

04	23.01.09	Health camp	Dr. Nagendra Kumar Shetty, Sharavathi Dental College,
	Morning		Dr. Srivani & Dr. Sunitha, Dept. of Health, Shimoga
07	23.01.09	Livestock Management	Dr. Rajashekhar and team, Shankar Eye Hospital
			Dr. N. Basavaraj, Deputy Director, Dept. of AH & VS
08	24.01.09	Animal health camp	Dr. V.B. Shettar, Assoc. Prof. Veterinary College, Shimoga
	Morning		Dr. Chidanandaiah, Veterinary College, Shimoga
09	24.01.09	Personality Development	Dr. Ramachandra, Dr. Sunil & Dr. Thimappa,
			Dept. of AH & VS, Dr. Suresh & Dr. Srinivas, KMF, SHIMUL, Shimoga
			Dr. S. Ganganaik, Dr. C. Ravikumar, Dr. Kavitharani, Dr. Rudresh, Veterinary College, Shimoga
10	25.01.09	Thoughts on P. Lankesh	Sri Mahadevappa, KAS, Managing Director, Shimoga District Co-operative Bank, Shimoga, Dr. Mirza Basheer, Assist. Director, Vety Hospital, Holalooru, Dept. of AH & VS, Shimoga
	Morning		Sri Marulasidaiah and other literary persons conducted a function on
12	25.01.09	Sustainable farming	Sri P. Lankesh, noted literary doyen of Karnataka
			Dr. Ganapathy, Organic Agriculture Unit, UAS, Shimoga, Dr. Rudresh & Dr. Manjunatha, L., Veterinary College, Shimoga
13	26.03.08	Valedictory function	Sri Padmanabha Bhat, Chairman, Malnad Area Development Board, Shimoga, Sri. Suresh, Asst. Commissioner, Com. Tax Dept., Shimoga, Dr. V.B. Shettar, Assoc. Professor, Vety. College, Shimoga

\* In all the functions local leaders were chairing the functions or were invited as Chief Guests (See programme chart).

#### e) Hostel Activities

- + The HMC meeting is being conducted regularly in the last week of every calendar month.
- + The HSC meeting is being convened regularly in the first week of each calendar month.
- + The hostel account audit work for the financial year 2008-09 was entrusted to M.V.Reddy Associates, Bangalore.
- + 100 Kg Electronic digital balance was purchased for hostel from college fund for the financial year 2008-09.

#### d) NSS Unit of Veterinary College, Hassan

Students were actively involved in Campus cleaning, watering to the plants, growing vegetables in the hostel surroundings, plastic picking around campus and other cleanliness activities.

#### e) NSS Unit of Dairy Science College, Hebbal, Bangalore

##### Regular activities

Shramadhana and cleaning up of College surroundings and hostels on the following dates

05-04-08 and 26-04-08	6-8-08 and 27-08-08
07-05-08 and 21-05-08	10-9-08 and 27-9-08
11-06-08 and 21-05-08	11-10-08 and 25-10-08
9-07-08 and 23-07-08	8-11-08 and 22-11-08

#### NSS special camping report

10-12-2008 to 20-12-2008

Venue of the camp: Solur village, Devanahalli Tq, Bangalore rural dt

Name of the camp officers: M. Venkatesh, Asst. Prof., Dept. of Dairy Technology

Name of the camp assistants: 1) Dr. E Narayanappa, 2) N S Somashekara

No. of students allotted by the University: 50

#### Rural Dairy Work Experience (RDWE) programme

As part of the Inplant Training, The RDWE Programme was organized for IV year B.Tech (D.Tech) students for 10 days from 24.02.2009 to 05.03.2009 at Hadonahalli village of Doddaballapur Taluk. Dr. H. Manjunatha, Assistant Professor, Department of Dairy Microbiology served as Co-ordinator for RDWE programme. The programme was inaugurated on 25.02.2009. The Valedictory function was organized on 5.3.2009 with Sri. P. Ranganath, Managing Director, Bangalore Milk Union as the Chief Guest. During the period of this village stay camp, lectures by eminent resource personnel were arranged for the benefit of both, students and farmers from 26.2.2009 to 5.3.2009. Students were exposed to different aspects of dairy such as forage production, clean milk production, feeding management, chemical and microbial quality and preparation of value added dairy products etc.



### **Hostel Activities**

Hostel Day was celebrated on 4<sup>th</sup> April 2009. Various sports and games were conducted for the hostel students and prizes were distributed at the hostel day function. Mr. Samuel, TATA Tea Co. Ltd. and Mr. Srinivas, an alumnus were invited as the Guests for the function.

### **f) NSS Unit of College of Fisheries, Mangalore**

A ten-day special camp was held at Elur Mogaveera Bhavana, Malpe, Udupi Dist from 18<sup>th</sup> February to 5<sup>th</sup> March, 2009. Shri. Pramod Madhvaraj, Businessman Malpe, Udupi Dist. Inaugurating the NSS special camp. Dr. A.T. Ramachandra Naik, NSS programme Officer highlighted the various activities to be carried out during the special camp. Dr. Gangadhara Gowda,

Coordinator of Rural Fisheries Activities programme, Fisheries College, Mangalore; Prof. P.K.Salian, Retired D.I., Fisheries College, Mangalore was the Chief Guest. Shri Panduranaga Kanchan, Smt. Anandi, Shri Suresh Kumar, Shri Vishwanath Shetty, Shri Hiriyanna Kidiyur were all Guest of Honour, Dr. Y. Basavaraju, Dean (Fisheries) presided over the function.

The closing function of special camp was held at 5<sup>th</sup> March, 2009. The guests invited were Shri Vijay Kunder Padukare was the chief guest of valedictory function. Shri Gundu Amin, Sri Krish naraj Puranik, Smt. Daysheela Shetty, Shri Harish Kumar and Shri. Venkataramana Kidiyur were the guests of honour. Dr. Y. Basavaraju, Dean (F) presided over the function.

### III. RESEARCH

Director of Research (I/c) : Dr. Shivashankar, M. Usturge

The University has made substantial progress in Research work keeping in view of the University mandate. Presently, this University is operating research projects with the funding support to the tune of Rs. 19.63 crores from Government of Karnataka, DBT / DST / ICAR, GOI, EO and other agencies. Besides, Government of India has sanctioned Rs. 4.31 crores for research through the RKVY and NAIP (ICAR) projects recently. The University has allotted Rs. 10.00 lakhs exclusively for the staff research during year 2008-09. This has encouraged to all the teachers to undertake need based research, the results of which will be utilized for proposing the projects to extra mural funding agencies.

#### 1. Completed Projects

Sl. No.	Title	Sponsoring Agency	Budget outlay	Year of Commencement	Year of Completion	Principal Investigator and Co-Investigators
<b>Veterinary College, Hebbal, Bangalore</b>						
1	Coproantigen detection of <i>Echinococcus granulosus</i> infection in dogs	ICAR, Centre of Advanced Studies	-	2007	2008	Dr. Placid E.D'Souza
2	Current status of Coccidiosis in broilers and broiler breeder chicken.	ICAR, Centre of Advanced Studies	-	2008	2009	Dr. Placid E.D'Souza
3	Studies on early chick mortality in certain regions of Karnataka	-	-	Nov 2007	Nov 2008	Dr.H.A. Upendra Dr. S. Yathiraj, Dr.P.T. Ramesh, Dr.H. Narasimha Murthy and Dr. Suguna Rao
4	Studies on pododermatitis in dogs	-	-	Nov 2007	Nov 2008	Dr.C.Ansar Kamran Dr. S.Yathiraj, Dr. Suguna Rao
5	Studies on prevalence and treatment of mastitis in cattle	Karnataka State Council for Science and Technology, Bangalore	-	Oct 2007	Oct 2008	Dr. S. Yathiraj Dr. M. Narayana Bhat, Dr. C. Ansar Kamran, Dr. D. Rathnamma and Dr. N.B. Shridhar
6	Improving the economic and health status of rural people through back-yard rabbit rearing	Department of Bio-technology, Ministry of Science and Technology, Govt. of India, New Delhi.	Rs. 16.07 lakhs	March 2007	-	Y.B.Rajeshwari R. Bhaskaran K. Satyanarayan
7	Effect of different levels of energy intake on milk yield and SNF content in crossbred dairy cows	Karnataka State Council for Science and Technology (KSCST)	Rs. 10,000	15.04.2008	-	R. Bhaskaran, U.Krishnamoorthy K. Chandrapal Singh
8	Effect of Supplementary Feeding of Multinutrient Feed Blocks To Lactating Ewes on Body Weight Dynamics of Ewes and Nursing Lambs	KVAFSU	Rs. 15,000	15.10.2008	-	S.B.Prasanna U. Krishnamoorthy R.Bhaskaran,
9	Survey, Evaluation, Characterization and Conservation of Hallikar cattle	I.C.A.R	Rs.23.95 lakh	2006	2008	Dr. C. S. Nagaraja Dr. M.R. Jayashanka



10	Role of nucleotides-rich yeast product (NuPro <sup>®</sup> ) in improving the broiler chicken performance	Alltech Biotechnology pvt. Ltd., Bangalore.	Rs. 94,900/-	2007	2009	Dr. H. N. Narasimhamurthy Dr. B. Umakantha Dr. Jayanaik Dr. Ramesh. K. R.
11	Development of Biofilm based vaccine against Mastitis causing <i>Staphylococcus aureus</i> & <i>Escherichia coli</i> organisms in Bovines	DBT, Govt. of India	Rs. 30.71 lakhs	2005-06	2008-09	Dr. Shrikrishna Isloor & Dr. D. Rathnamma, Dr. B.M. Veeregowda
12	Maldi studies on fertility related epididymal proteins of bull	KVAFSU	Rs. 40,000/-	2008	2009	Dr. V.Girish Kumar Dr. Ramachandra.S.G Dr. V.C. Murty
<b>Veterinary College, Bidar</b>						
13	Prediction equation for body weight in Kenguri sheep	KVAFSU	-	2007	2009	Dr. M.D. Suranagi, Dr. M.M. Appannavar, Dr. G.S.Naveen kumar, Dr. U.S. Biradar
14	Evaluation of AV/ALP/17 & AV/CSP/14 in improving growth performance and carcass quality in broilers.	Ayurvet Ltd., Katha, Baddi, Dist. Solan (H.P.)	Rs. 31,395/-	2008	2008	Dr. N.V. Jadhav Dr. B. Awati Shri. S.M. Kartikesh Dr. Pradeepkumar
15	Evaluation of toxic potential of Cypermethrin with Special reference to testicular toxicity in albino mice	KVAFSU	Available Departmental Budget	2007	2008	Dr. N.Prakash Dr.U.Sunilchandra and Dr.M.Vijay kumar,
16	Seroprevalence of Brucellosis in sheep & goat in & around Bidar	KVAFSU	Rs.10,000/-	2009	2009	Dr. Basavraj Awati-PI Dr. R. G. Bijurkar Co-PI Dr. Mahesh Dodamani Co-PI
17	Seroprevalence of Brucellosis in Sheep and Goats in and around Bidar	KVAFSU	Rs. 25,000/-	2007-2008	2008-2009	P.I.: Dr. B. Awati Co-PI: Dr. R. G. Bijurkar
18	An Action Research for Self Employment of SC/ST Youth through Goat Rearing under Stall Feeding as a Strategy for Poverty Alleviation and Sustainable Development in Hyderabad Karnataka Region	DBT, GOI	Rs. 15.83 Lakhs	2006	2008	P.I.: Dr. K.C.Veeranna Co-P.I.s.-Dr. V. Nagabhusan & Dr. C.B.Madhava Prasad
19	Mortality Pattern of Broiler birds in and around Bidar Dist.	KVAFSU	Rs. 0.15 Lakhs	April 2 <sup>nd</sup> week 2008	March 31 <sup>st</sup> 2009	Dr. D. T. Naik. and Dr. Bhanuprakash
<b>College of Fisheries, Mangalore</b>						
20	Production and characterization of monoclonal antibodies (Mabs) to 1 gM of Indian major carps for antigen characterization and diagnosis	DBT	Rs. 15.44 Lakhs	2004	2008	Dr. K.M. Shankar
21	Employment generation and enhancement of income for	DBT	Rs. 54.43 Lakhs	2004	2007	Dr. Indrani Karunasagar

	women in Bengre fishing village through biotechnologies					
22	Application of PCR for improved shrimp health management	ACIAR-NACA	Rs. 12.96 Lakhs	2004	2008	Dr. Indrani Karunasagar
23	Programme support on Biotechnology	DBT	Rs. 117.60 Lakhs	2005	2009	Dr. Indrani Karunasagar
24	Development of transgene constructs with antimicrobials peptides genes and evaluation of their suitability for production of transgenic	ICAR	Rs. 25.03 Lakhs	2005	2008	Dr. Indrani Karunasagar
25	An economic analysis of the impact of the state sponsored Programmes	ICAR	4.18	2004	2008	Dr. R. Muni Reddy
<b>Institute of Animal Health &amp; Veterinary Biologicals, Hebbal, Bangalore</b>						
26	"Pathogenecity study of <i>Helicoverpa armigera</i> and <i>Spodoptera lutera</i> Baculo virus in cell culture system"	Multiplex Company Ltd		2008-09		Director and Dr. B.M Chandranaik
<b>Fisheries Research &amp; Information Center (Inland), Hesaraghatta</b>						
27	Color enhancement in gold fish		Station Budget	Aug, 2008	Nov, 2008	

### Research Highlights

#### "Coproantigen detection of *Echinococcus granulosus* infection in dogs"

Coproantigen detection by counter Immuno electrophoresis (CIEP), indirect ELISA and sandwich ELISA were standardized and evaluated. The Excretory Secretary (ES) antigen of *Echinococcus granulosus* was obtained by *in vitro* culture of the worms in Medium 199. Out of 62 samples screened, 3 were found to be positive for *Echinococcus granulosus* coproantigens by CIEP. The results of indirect ELISA indicated that 28 out of 92 samples were coproantigen positive. In sandwich ELISA the fecal supernatant was titrated against purified rabbit anti *Echinococcus granulosus* IgG as capture antibody and rabbit anti *Echinococcus granulosus* IgG HRP conjugate as detecting antibody. The fecal supernatants from 16 out of 368 dogs were positive. The prevalence of *Echinococcus granulosus* infection in the dogs by sandwich ELISA was found to be 4.35 percent. Sensitivity and specificity of CIEP and Indirect ELISA was found to be 50 & 100 and 100 & 71.11 percent respectively. Sandwich ELISA was 100 percent sensitive and 96.94 percent specific.

#### "Current status of Coccidiosis in broilers and broiler breeder chicken"

A study was conducted to assess the current status of coccidiosis in broiler chicken and breeder farms in Bangalore district. Twenty one farms were

examined of which 15 were found to be positive for coccidial oocysts by faecal examination after centrifugal floatation (71.43%). Out of the 111 sheds, 47 sheds (42.34%) were found to be positive. Breed wise prevalence of 85.71, 72.72 and 50 percent in Cobb, Hubbard and Giriraja breeds respectively was recorded. Out of the 21 farms 7 were breeder farms and 14 were broiler farms. Three breeder farms (42.85%) and 13 broiler farms (92.85%) were found to be positive. Two farms which followed the cage rearing system recorded no incidence(0%) where as of the 19 farms which followed the deep litter system, 16 (84.21%) were found to be positive.

The severity of infection in these farms was recorded by means of litter oocyst density and oocyst per gram of faeces. Oocyst per gram of faecal sample was recorded in all the positive samples and it was found to be in the range of 0.05 to 75.0(x 10<sup>3</sup>) OPG. It was found that, of the 47 positive samples 31.91%, 31.91%, 14.8% and 21.2% showed mild, moderate, severe and very severe infection respectively. Litter oocyst density was also assessed in all the positive samples and it was found to be in the range of 0.067 to 82.95 (x 10<sup>3</sup>). Out of the 47 positive samples 31.91%, 23.40%, 19.15% and 25.53% showed mild, moderate, severe and very severe infection respectively. The severity of infection was found to be highest at 4-6



weeks, but number of cases was more between 6 to 8 weeks based on both litter oocyst density and oocysts per gram of faeces. In samples showing high oocyst density, the litter was noted to be wet and compacted except in two farms which showed high oocyst density despite loose and dry litter. Farms which were negative for oocysts showed dry litter which were loose or showed small clumps. The litter oocyst density and oocyst per gram of faeces in case of birds which were vaccinated against coccidiosis was found to be the highest at 4 weeks of age and decreased up to 7 weeks and slight rise was noted at 8 weeks and later at 17 weeks. The speciation based on morphology and micrometry revealed five different species, viz., *Eimeria tenella*, *Eimeria necatrix*, *Eimeria maxima*, *Eimeria acervulina* and *Eimeria mitis*

#### **"Studies on early chick mortality in certain regions of Karnataka"**

**Early chick mortality:** The overall early chick mortality was 5.39%. Higher mortality was seen during 2007 as well as in cold season. The mortality was lowest in summer. The disease incidence was found to be more during first week of age and least during 7<sup>th</sup> week of age. Respiratory infection, yolk sac infection, ascites and visceral gout were found to be the most common diseases. *E. coli* isolated from infected yolk sac were found to be sensitive to amikacin (100%), cefotaxime (87.5%), chloramphenicol (66.67%), cotrimazole, gentamicin and nitrofurantoin (58.33%). None of the isolates were sensitive to doxycycline.

#### **"Studies on pododermatitis in dogs"**

The etiology of pododermatitis is multifactorial in origin. Pododermatitis can be due to bacterial, fungal and mite infections and also due to allergic and hormonal diseases. Histopathological evaluation of the lesions is superior to other methods of diagnosis like skin scraping examination and blood tests.

#### **"Studies on prevalence and treatment of mastitis in cattle"**

The prevalence of subclinical mastitis was found to be 29.94% based on electrical conductivity testing. The incidence of clinical mastitis was 24.7% and quarter cases per 100 cows was found to be 28.2% and each cow suffered 1.4 quarter cases on the average. Therapeutic trial indicated that ceftriaxone with tazobactam and herbal ointment application was superior to just the antibiotic or the ointment alone.

#### **"Improving the economic and health status of rural people through back-yard rabbit rearing"**

##### *Identification of women and rural beneficiaries*

This project involved training rural women and landless beneficiaries (trainees). Survey was done for selecting beneficiaries by providing application forms which gave information on family size, economic status, occupation, seasonal and daily workload. Preliminary survey of rural women was conducted in Tumkur and Kolar districts. In Bangalore and Chikkaballapur districts, 100 families of beneficiaries were identified. In Kolar district, Gowribidunoor taluk, 25 families of beneficiaries were identified at three villages. In Tumkur district, Tiptur taluk, Konehalli, 150 families of beneficiaries were identified at 10 villages. Beneficiaries were from rural background, landless labourers and were women folks.

##### *Distribution of broiler rabbits*

Identified beneficiaries were given training on broiler rabbit farming with the help of NGO, Self Help Groups, Sthree Shakthi Groups. Forty field demonstrations were carried out. Trained beneficiaries were distributed with three adult females and one adult male rabbit from Veterinary College. They were monitored regularly for diseases and other managerial aspects.

##### *Income and employment generation avenue created*

In Bangalore rural district, Aaneal taluk covering 3 villages viz., Sreenivasapura, Mayasandra and Athhibele, people marketed the rabbits to Indian rabbitry at the cost of Rs.100 per animal. In Kolar district, 20 families after one year of distribution are earning around Rs. 300-400 per month by sales and they are also consuming 5-6 kilos of meat per month. They are producing eight young ones from one doe at every 2½- 3 months interval. Manure is used for their own backyard farming to grow fodder trees, greens and vegetables. This helps in organic farming. Thus employment is generated for rural people along with agriculture which is an alternative source of income.

#### **"Effect of different levels of energy intake on milk yield and SNF content in crossbred dairy cows"**

From the present study it was concluded that, 10 percent increased energy supplementation in the diet of lactating dairy cows would increase SNF content of milk by 0.20 per cent. Further investigations on the influence of different sources of protein, varying in levels of soluble protein and the UDP content, on the constituents of milk is needed.

### "Effect of Supplementary Feeding of Multinutrient Feed Blocks To Lactating Ewes on Body Weight Dynamics of Ewes and Nursing Lambs"

There was significantly higher  $P \leq 0.01$  increase in body weight in Lambs of UMMB fed group ( $5.80 \pm 0.88^{**}$  Vs  $4.77 \pm 0.25^{**}$ ). There was significantly higher  $P \leq 0.01$  increase in average daily gains (ADG) of lambs in UMB fed group ( $95.08 \pm 14.54^{**}$  Vs  $78.24 \pm 4.17^{**}$ ). UMB fed ewes also gained body weight. Cost per day was 82 paise per day or Rs 26/- per month per sheep and it requires 3 kg of UMB feed block per sheep per month.

### "Survey, Evaluation, Characterization and Conservation of Hallikar cattle"

The population of Hallikar cattle is around 20 lakhs as per the 2003 livestock census. A detailed two stage sample survey of the households spread over seven districts covering 27 taluks involving 466 villages was carried out during the period. It revealed a total of 32627 animals - 11639 males (35.67%) including breeding animals and 20988 females (64.33%) including breeding stock and adults. High density of animals was observed in Mysore, Mandya, Chamarajanagar, Tumkur and Bangalore rural districts. Hallikar animals are generally poor milk yielders with range of 0.5 to 4.0 kg per day with a lactation yield ranging from 700-1200 kg per lactation. Fat percentage is between 4-6%. The average lactation length ranges between 130-400 days.

The average height at withers of bullock was  $136.88 \pm 0.70$  cms and that of cows was  $126.11 \pm 0.73$  cm. The chest girth ranged from  $93.28 \pm 2.02$  cms in young ones below one year to  $164.73 \pm 1.13$  cm in bullocks. Bullocks and cows had body length of  $140.29 \pm 0.93$  and  $131.67 \pm 0.61$  cm, respectively.

PCR RFLP analysis of MHC gene of Hallikar cattle resulted in eight different allelic patterns for *HaeIII* enzyme. The molecular characterization by micro satellite markers revealed higher genetic variability within the breed which can be exploited for breed improvement through systematic selective breeding.

Though the number of Hallikar animals is not alarmingly low, the breed is in declining trend in quality. There is an urgent need to arrest the dilution and genetic erosion through planned breeding policy for their genetic improvement.

### "Role of nucleotides-rich yeast product (NuPro<sup>®</sup>) in improving the broiler chicken performance"

1. Feeding NuPro<sup>®</sup> stimulated initial feed intake of

chicks, significantly reduced total feed intake and mortality

2. Better weight at market age
3. Higher weight of Immune organs in 14 days fed group.
4. Net profit/bird over feed cost was better in 14 days fed group.
5. *E.coli* counts were lower & *Lactobacillus* counts were higher in treated groups
6. Best ROI (Returns on Investment) was noticed in NuPro<sup>®</sup> group of 7 days but it can be fed up to 14 days with significant economic benefits.

### "Development of Biofilm based vaccine against Mastitis causing *Staphylococcus aureus* & *Escherichia coli* organisms in Bovines"

Analysis of OMPs of *E.coli* O9 and O147 serotypes grown under biofilm and planktonic mode with referenc to their immunogenicity and cross reactivity was carried out. Western blot analysis of biofilm OMPs revealed a unique 28.5 kDa polypeptide of these serotypes when probed with hyperimmune sera (HIS) of *E.coli* O9 grown under BF mode, in addition to 24.4 kDa polypeptide and 34.5 kDa polypeptide of *E.coli* O9 were detected when probed with HIS of *E.coli* O9 of planktonic and BF mode which indicated the immunogenicity and cross-reactivity of proteins expressed when grown under BF mode.

Mastitis was induced in lactating rabbits using two *E.coli* serotypes and *Staphylococcus aureus* strains with  $10^4$ ,  $10^5$ ,  $10^6$  and  $10^7$  cfu/ml of bacterial suspension via the base of the teat, which was indicated by gross lesions of mammary glands, increased SCC, bacterial counts and CMT positivity in milk and all these showed maximum values at 48 hrs post inoculation.

Vaccination trials in pregnant Rabbits with biofilm vaccine of *E.coli* and *Staphylococcus aureus* was carried out. Analysis of serum IgG level was done by Indirect ELISA which revealed significantly higher serum IgG levels in *E.coli* biofilm vaccinated animals. In challenge studies, it was noticed that higher cross protection was conferred by *E.coli* biofilm vaccine

### "Maldi studies on fertility related epididymal proteins of bull"

The study on bull testicles was proposed such that the same could be obtained from local bull centers. At present the bull centers are contemplating that the bulls culled are to be sent directly to Goshalas unhampered and it is doubtful that the authorities at



beneficiaries. For further follow up and services, linkages are developed with developmental departments. The experiences and findings of the project were presented in two national seminars and published the same. Published one folder and one booklet on complete feed preparation and goat rearing in local language for the benefit of community. To study the impact of the project, one post graduate student is assigned a topic for his research.

In addition, beneficiaries acquired EDP skills with respect to marketing, feed preparation and purchase etc. which lead to some decision making role for them in the family and has positive impact in improving their livelihoods, their saving and debt position and their living and consumption standard. The beneficiaries shared that they find confidence and self dependence by being in the LIG and undertaking Bidri goat rearing activity.

**"Production and characterization of monoclonal antibodies (MAbs) to IgM of Indian major carps for antigen characterization and diagnosis"**

- ♦ IgM of IMC purified by affinity and molecular weight determined Panel of monoclonal antibodies raised against Igs of IMC Immunodiagnostic developed for detection and epitope analysis of Igs Immunodiagnostic developed for detection and

epitope analysis of Igs

**"An economic analysis of the impact of the state sponsored programmes"**

- ♦ Government expenditure on fisheries sector had positive impact on socio-economic status of fisherman.
- ♦ The study by (Bhatta 2007) shows that the Nethravathy estuary alone generates a direct income of Rs. 7 crores/year for 450 fishers from fishing within a radius of 5-10 kms and a direct employment of 148200 days per year in the fishing activity it self. If we add the backward and forward linked processes in fishing and post-harvest the employment generation would be double. Further with the capital investment requirement of only 35,000-40,000/unit the fishers are harvesting 14,000-15,000 kgs of valuable estuarine fishes per year.

**Research Highlights of Fisheries Research and Information Center (Inland), Hesaraghatta**

One month old gold fish was fed with feed incorporated with marigold flower powder and reared for a period of 3 months. Gold fish fed with marigold flower powder showed better and faster color development compared to control fish. Fish fed with 5% feed showed better color development.

**Color enhancement in Gold fish**

Treatment	Total No.	Initial average wt.(gm.)	Final average wt. (Gm)	Nos. Recovered	Survival %	Orange color + mixed colour
T <sub>1</sub> SB+MPF	240	0.98	12.9	142	59	57.7 (73+9=82)
T <sub>2</sub> SB+MPF	240	1.16	7.6	215	89.5	64.2 (105+33=138)
T <sub>3</sub> NSB+F	240	0.95	8.3	89	37	49.4 (74+10=84)
T <sub>4</sub> NSB+MPF	240	1.02	8.6	145	60	62 (73+17=90)

**2. Ongoing Projects**

Sl. No.	Title	Sponsoring Agency	Budget outlay	Year of Commencement	Principal Investigator and Co-Investigators
<b>Veterinary College, Hebbal, Bangalore</b>					
1.	In-vitro efficacy of Indispron D110 against ticks, bugs & fleas of domestic animals	PNP & Associates Pvt. Ltd., Faridabad	Rs. 85,000/-	2008	Dr. Placid E.D'Souza & Dr. C. Renukprasad
2	Studies on diagnosis and therapeutic management of atopic dermatitis in dogs	-		Nov 2007	Dr.S.Yathiraj, Dr.A.Muralidhara, Dr.C.Ansar Kamran and Dr.M.L.Satyanarayana
3	Study of biochemical profile in digestive disorders in ruminants	-		June 2008	Dr.H.A.Upendra, Dr.S.Yathiraj, Dr. C. Ansar Kamran and Dr.Deepti.B.R.

4	Studies on NAGase as an indicator for diagnosis of subclinical mastitis in bovines	-		May 2008	Dr.S.Yathiraj Dr.H.A.Upendra, Dr.C.Ansar Kamran, Dr.P.T.Ramesh and Dr.Deepti.B.R.
5	"Epidemiological studies on parasitic skin infections in canines in and around Bangalore"	Department of Vety Epid & Prev. Medicine	Rs. 30,000/-	2008	Dr. M.C. Anil Kumar, Dr. M. Narayana Bhat Dr. Placid D'Souza Dr. H.A. Upendra, Dr. P.T Ramesh
6	Pharmacological and Therapeutic evaluation of cattle urine	Govt of Karnataka	Rs. 4.14 crores	2007-08	PI: Dr. K.Jayakumar Co-PIs:Dr.N.B.Shridhar Dr. A.H. Shridhar
7	Obscure Disease of Cattle and Buffaloes of Karnataka, Studies on Cause and Cure	Western Ghat Development Programme	Rs. 80 lakh	2006-07	PI: Dr.N.B.Shridhar Co-PIs: Dr.K.Jayakumar
8	Studies on Immunotoxicity of T-2 toxin in chick embryos	KVAFSU	Rs. 35,000/-	2008	Dr.H.D.N Swamy, Dr.M.L.Satyanarayana, Dr. Suguna Rao, Dr.D.Rathnamma, Dr.Kavitha Rani,
9	Pathology of Citrinin toxicity in broilers and its amelioration using toxin binder	KVAFSU	Rs. 20,000	2008	Dr.ML Satyanarayana Dr.H.D.N Swamy, Dr. Suguna Rao, Dr.Kavitha Rani
10	Pathology of bluetongue virus infection in chick embryos	KVAFSU	Rs. 20,000	2008	Dr. Suguna Rao Dr. M. L. Satyanarayana Dr. H.D.N Swamy, Dr. Kavitha Rani
11	Funds for Improvement of infrastructure in Para-clinical Division	Dept of Science & Technology, Govt of India	Rs. 33.00 lakhs	2008	Dr.M.L Satyanarayana (Chairman, Paraclinical Division)
12	Effect of two energy levels and two protein sources differing in solubility on milk yield and milk composition in crossbred cows	KVAFSU	-	2008	U.Krishnamoorthy K. Chandrapal Singh
13	Evaluation Morphometric & Reproductive traits of Indigenous Goats	KVAFSU	Rs. 25,000/-	2008	P.I-Dr.R.Jayashree Co.PI - Dr. M.R.Jayashankar Dr. C.S.Nagaraja Dr. K.Satyanarayana Dr. Y.B.Rajeshwari
14	"AICRP on Poultry Breeding for Meat"	ICAR	Rs. 50.03 lakhs	2008-09	Dr. H.N.N. Murthy Dr. B. Umakantha Dr. Jayanaik
15	Effect of Fibravid Ab-Tox and Fibravid M on individual and combined toxicities of aflatoxin, ochratoxin and T-2 toxins in Broilers	Expert Bio-products Pvt.Ltd.Chandigarh, Panjab.	Rs. 1.20 lakh	15-4-08	Dr. B.Umakanth Dr. T.Munegowda Dr. H.N.N. Murthy Dr. Jayanaik Dr. K. Venkata Reddy
16	"Effect of type of Silkworm pupae meal and enzyme fortification on performance, lipid profile and immunological status in broilers"	Crescent Traders, Kolar.	Rs. 25,000/-	2006-07	Dr. T. Munegowda Dr. H.N.N. Murthy Dr. B. Umakanth Dr. B. Umakanth Dr. K.Chandrapal Singh Dr. Jayanaik

17	Development of recombinant antigen based diagnostic tools for the detection of avian Myco-plasma infections	DBT	Rs.38.90 lakhs	2007-08	Dr. B. M. Veeregowda & Dr. Shrikrishna Isloor
18	Funds for Improvement of Science and Technology (FIST) infrastructure in Universities and higher educational Institutions	DST	Rs. 33.00 lakhs	2007-08	Dr. D.Rathnamma Dr.Placid E.D'souza Dr.M.L.Satyanarayan Member convener - Dr.S.Isloor
19	Studies on Bacterial pathogens associated With Piglet Mortality	KVAFSU	Rs. 25,000/-	2008-09	Dr. Sharada. R, Dr. KavithaRani, Dr. S. B. Prasanna
20	BovineMastitis: Unravelling Molecular details of Host Microbe Interaction & Development of Molecular Diagnostic Methods in collaboration with PD_ADMAS, JNCASR & IVRI.	NAIP, ICAR	Rs. 40 lakhs	2008-09	Dr. Shrikrishna Isloor
21	Evaluation of <i>Mimosa pudica</i> and <i>Tridax procumbens</i> leaves extract for haemostatic properties.	KVAFSU	Rs. 10,000/-	2008-09	PI: Dr. M. Narayana Swamy Co-PIs: Dr. T.Veena, Dr. G.P. Kalmath
22	Studies on Rumination pattern in Cows and Buffaloes	KVAFSU	-	2008-09	PI: Dr. T. Veena Co-PIs: Dr.M. Narayana Swamy Dr. G. P. Kalmath
23	Effect of Chilly Extract on Membrane stability of Mammalian and Chicken Erythrocytes <i>in vitro</i>	KVAFSU	Rs. 2,000/-	2008-09	PI: Dr. G. P Kalmath Co-PIs: Dr.M. Narayana Swamy, Dr. T. Veena
24	Screening of breeding bulls semn for venereal transmitted mycoplasma and ureaplasma	KVAFSU	Rs. 35,000/-	2008-09	Dr V. C Murthy
25	Evaluation of heamatobiochemical parameters assisted parturition of cattle	KVAFSU	Rs. 20,000/-	2008-09	Dr G Sudha
27	Preparation of anatomical teaching aids by recycling plastic tea cups & thermocol.	KVAFSU	Rs. 50,000/-	2008	P.I.: -R.V.Prasad Co-PI: K.V. Jamuna and Ramakrishna V.
28	"Eradication of pollution by recycling plastic tea cups and thermocol in the preservation of biological specimens used for teaching and museum purpose"		Rs.3.00 Lakhs	2009	P.I.: -R.V.Prasad Co-PI:K.V. Jamuna and Ramakrishna V.
29	Detection of bacteria of public health significance from milk and milk products	KVAFSU	Rs. 25,000/-	2008-09	PI: Dr. Leena, G Co-PI's Sharanagowda, B and Dr. B. M. Veeregowda
30	External Skeletal Fixation for femoral Fracture Repair in Dogs	KVAFSU	Rs. 40,000/-	2008	Dr. L Ranganath Dr. B N Nagaraja
31	Clinical Evaluation of Dental Acrylic and Epoxy Putty External Skeletal Fixator for Tibial Fracture in Dogs	KVAFSU	Rs.40,000/-	2008	Dr. B N Nagaraja Dr. L Ranganath
32	"Upgradation and modernization of operation theatre for hands on training to UG students"	ICAR	Rs. 60.00 lakhs		Dr. M. S. Vasanth
33	To establish the physiological and biochemical values in colored parental lines of chicken developed for rural poultry farming	KVAFSU / Dept of Poultry		2009	Dr. V. Girish Kumar



34	A Study on Knowledge and Adoption behaviour of Livestock farmers Haniyuru village	KVAFSU	Rs. 5,000/-	2008	Dr. V.Jagadeeswary & Dr. K.Satyanarayan
<b>Veterinary College, Bidar</b>					
35	Study on Incidence of Mastitis in crossbred cows of Kolar district.	KVAFSU		2007	Dr.G.S.Naveen Kumar, Dr. M.M.Appannavar, Dr. M.D.Suranagi.
36	Prediction equation for body weight in Kenguri Sheep	KVAFSU		2007	Dr. M.D.Suranagi, Dr. M.M.Appannavar, Dr.G.S.Naveen Kumar Dr.U.S.Biradar
37	"Haemato-biochemical and therapeutic studies in hemoglobin urea in cattle and Buffaloes"	KVAFSU	Rs. 30,000/-	2008	Dr.N.A.Patil & Dr. Vivek R Kasarallkar. Dr. Santosh P Sarangamath Dr. Ganesh Udupa
38	"Metabolic profile test as indicators of susceptibility to production disease in medium and high yielding buffaloes in and around bidar"	KVAFSU	Rs. 30,000/-	2008	Dr. Vivek R Kasarallkar Dr.N.A.Patil Dr. Santosh P Sarangamath Dr. Ganesh Udupa
39	"Studies on Electrocardiograph (ECG) pattern in different breeds and age groups of dogs with special reference to <i>Mudhol</i> breed"	KVAFSU	Rs. 9,000/-	2008	Dr. Santosh P Sarangamath & Dr. N.A.Patil Dr. Vivek R Kasarallkar Dr. Srikanth Kulkarni
40	"Studies on Prevalence and In-vitro sensitivity pattern of antibiotics for the treatment of subclinical mastitis in cattle and buffaloes"	KVAFSU	Rs. 12,000/-	2008	Dr. Santosh P Sarangamath & Dr. N.A.Patil Dr.Sandeep Halmandge Dr.Ganesh Udupa
41	Evaluation of bioenhancing properties of <i>curcumin</i> on bioavailability of selected therapeutic agents and its ameliorating effects on experimentally induced aflatoxicosis	KVAFSU	Rs. 25,000/-	2008	Dr. N.Prakash, Dr.U.Sunilchandra and Dr.M.Vijay kumar
42	Efficacy of Zanocin (Ofloxacin) in two different dose rate for treating repeat breeder bovines	KVAFSU	Rs.10,000/-	2008-09	Dr R B Dhabale Basavaraj Awatl, M K Tandle, S D Sonwane, R G Bijurkar and M S Dodamani
43	Comparative efficacy of intrauterine herbal and other antimicrobial agents in buffaloes with RFM	Dabur Ayurved India Ltd. New Delhi	Rs. 57,200/-	2007-08	Dr S S Honnappagol, M K Tandle, Y Hari Babu, S D Sonwane, R G Bijurkar and P G Waghmare
44	Efficacy of Ciprofloxacin and Tinidazole combination in treating repeat breeder Buffaloes	KVAFSU	Rs. 10,000/-	2008-09	Dr M K Tandle, R B Dhabale, S D Sonwnae, R G Bijurkar, M S Dodamani, Y Hari Babu & Basawaraj Awati
45	Detection of the pathogenic micro organisms in foods of animal origin in and around Bidar city	KVAFSU	Rs. 25,000/-	2008	Dr. Pradeep Kumar

46	Livelihood Security through Resources and Entrepreneurship Management in Bidar District	NAIP, ICAR	Rs. 194.83 lakhs.	2008	Dr. K.C. Veeranna
47	Identification and Documentation Ethno-veterinary Practices In Bidar District	KVAFSU	Rs. 15,000/-	2008	Dr. Shivakumar K. Radder
48	Comparative study to ascertain draftability of Deoni and Deoni X HF crossbred cattle	ICAR	Rs. 24.884 Lakhs	2005	Dr. Ashok Pawar Dr. M.M.Appannavar Dr. Ramachandra Dr. Shrikant Kulkarni
49	Pathological Studies on Female Reproductive tract of sheep in and around Bidar	KVAFSU	Rs. 15,000/-	April 2 <sup>nd</sup> week 2009	Dr. D. T. Nalk and Dr. D. B. Kale
50	Evaluation of Anatomical techniques	KVAFSU	Rs. 30,000/-	2008-2009	Dr. K.M.Gadre
51	Monitoring of Helminths infestation in Goats	KVAFSU	Rs. 13,000/-	2008-2009	PI: Dr. Sandeep Halmandge, Co-PIs: Dr. K. Ganesh Udupa, Dr. P. M. Thimma Reddy, Dr.Santosh Sarangamath

#### Veterinary College, Shimoga

52	Survey of Genetic upgradation tools adopted by Cattle and Buffalo owners in Shimoga taluka	KVAFSU	Rs. 2,000/-	2008	Dr. V.B. Shettar Dr. B.H. Rudresh
53	Survey of Animal Husbandry practices in Shimoga taluka	KVAFSU	Rs. 2,000/-	2008	Dr. B.H. Rudresh Dr. V.B. Shettar
54	Studies on effect of curing and combinations of flour on quality of enrobed chicken.	KVAFSU	Rs. 10,000/-	2008	Dr. Chidanandaiah

#### Dairy Science College, Hebbal, Bangalore

55	Use of bacteriocins from lactic acid bacteria for the bio preservation of traditional dairy products	DST, New Delhi	Rs. 8.56 lakhs	Dec., 2007	Dr. D.B Puranik
56	Development of Technology for the production of enriched thermised paneer spread	KVAFSU	Rs. 0.35 Lakhs	July, 2008	Dr.H.Arun kumar
57	Development of enriched yoghurt by using buffalo milk	KVAFSU	Rs. 0.40 Lakhs	July, 2008	Mr.M.Venkatesh
58	Development of technology for the production of rasagolla by utilizing modified soy milk (PI)	KVAFSU	Rs. 0.38 Lakhs	July, 2008	Mr.Sharanagouda B.Patil
59	A study on mechanization of kunda Manufacture	KVAFSU	Rs. 0.40 Lakhs	July, 2008	Dr.Mahalingaiah.L
60	Enhancement of fermentation of batter by using solid state fermentation cultures	KVAFSU	Rs. 0.30 Lakhs	July, 2008	PI-Dr.H.Manjunatha Co-PI- Dr. R. Prabha
61	Economical method of preservation of Lactic Acid Bacteria	KVAFSU	Rs. 0.19 Lakhs	July, 2008	PI- Dr.R. Prabha Co-PI-Dr.H. Manjunatha
62	Screening of milk samples available in the University Dairy Farm for the presence of antibacterial substances, their identification and effect on the growth of lactic acid bacteria.	KVAFSU	Rs. 0.50 Lakhs	July, 2008	PI-Mr.B.Ramachandra Co-PI: Dr.R.Krishna
63	Application of Caseinophosphop-epitides from unutilized bio-resources in the	DBT (GOI)	Rs. 29.298	2007	PI : Mrs. Jayashri, P. P. Hiremath



	prevention of dental caries.				Co-PI : Dr. G.S.Bhat, Dr. N. Naveen Dr. D.B. Puranik
64	Sustaining Livestock production: Evaluation of SHGs	KVAFSU	Rs. 0.15 Lakhs	2008-09	PI: Dr. E.Narayanappa Co-PI: Dr. G.S.Bhat, Co-PI: Dr. Jayanayak
<b>College of Fisheries, Mangalore</b>					
65	A value chain in production and utilization of Indian major carps and prawn from aquaculture system	ICAR-NAIP, New Delhi	Rs. 189.11 Lakh	2008	Dr. K.M.Shankar
66	Enhancing production through management of the traditional Paddy Cum Shrimp culture systems for improved Income and livelihood of the Farmers in Uttara Kannada District, Karnataka	RKVY	Rs. 137.20 Lakh	2008	Dr. K.M.Shankar (Institutional Project)
67	Production and marketing of "farmer level RapIDot for detection of white spot virus	KVAFSU (Revolving fund)	Rs. 10.00 Lakh	2006	Dr. K.M.Shankar (Revolving Fund)
68	Improvement and propagation of indigenous fish for economic improvement of farmers	RKVY	Rs. 99.66 Lakh	2008	Dr.N.Basavaraja (Institutional Project)
69	Ornamental fish culture for rural livelihood, self employment and poverty alleviation	RKVY	Rs. 91.56 Lakh	2008	Dr. E.G.Jayaraj (Institutional Project)
70	Standardization of Murrel Seed Rearing	KVAFSU	Rs. 0.30 Lakh	2008	Dr.Iqbal Ahmed
71	Use of Molecular techniques to study the relation between Dinoflagellate Cysts, Blooms and their toxicity in South West Coast of India and Interrelationship between vibrios and toxic phytoplankton	SIDA	Rs. 67.00 Lakh	2003	Dr. Indrani Karunasagar
72	RNA interference (RNAi) as an mechanism against hepatopancreatic parvovirus (HPV)	DBT	Rs. 20.91 Lakh	2007	Dr. Indrani Karunasagar
73	Molecular genetic characterization of Salmonella strains associated with sea	ICMR	Rs. 27.86 Lakh	2007	Dr. Indrani Karunasagar
74	DBT programme support for research in aquaculture and marine Biotechnology	DBT	Rs. 84.53 Lakh	2007	Dr. Indrani Karunasagar
75	Development of molecular diagnostic tools for the detection of fish borne Trematodes	EC	Rs. 90.00 Lakh	2003	Dr. Indrani Karunasagar
76	DBT Gene Expression - "Gene expression in <i>Penaeus monodon</i> and <i>Penaeus indicus</i> in relation to microbial infection and environmental stress"	DBT	Rs. 76.05 Lakh	2005	Dr. Indrani Karunasagar
77	DBT Bioinformatics "Distributed Information Sub Centre (DISC)"	DBT	Rs. 90.00 Lakh	2000	Dr. Indrani Karunasagar

78	Biochemical and nutritional evaluation freshwater crab	KVAFSU	Rs. 0.10 Lakh	2008	Dr. Siddappaji
79	Ecological Monitoring In the Arabian Sea off Thannirbhavi receiving effluents from MCF Ltd.	MCF	Rs. 4.15 Lakh	2008	Dr. H.R.V.Reddy
80	Monitoring of Pollution Impact due to discharge of Treated Effluents from BASF	BASF	Rs. 5.57 Lakh	2008	Dr. H.R.V.Reddy
81	Treated Effluent Analysis and Monitoring of Seawater Quality of Chltrapur near Marine outfall of MRPL	MRPL	Rs. 10.96 Lakh	2008	Dr. H.R.V.Reddy
82	Coastal water quality monitoring of padubidri near the proposed UPCL Ltd. Effluent discharge point	UPCL	Rs. 7.50 Lakh	2008	Dr. H.R.V.Reddy
83	Monitoring and Surveillance of harmful Algal Blooms along Karnataka Coast	MoES, New Delhi	Rs. 26.68 Lakh	2008	Dr. H.R.V.Reddy
84	Impact of Fishmeal Industries on selected Test Organisms	KVAFSU	Rs. 0.12 Lakh	2008	Dr. A.T. Ramachandra Naik
85	Application of microbial transglutaminase and neutral salts on the gel forming ability of a few selected fish species	DBT	Rs. 21.90 Lakh	2006	Dr.B.A.Shamasundar
86	Use of bacteriocin from lactic acid bacteria in preservation of fish and meat products	DST, Bio New Delhi		2006	Dr. B.A.Shamasundar
87	Utilization of valued added Marine and Freshwater Fishes along Karnataka Coast.	RKVY	Rs. 102.60 Lakh	2008	Dr. B.A.Shamasundar
88	E-Learning for B.F.Sc. Degree Programme	NAIP		2008	Dr. B.A. Shamasundar (Institutional Project)
89	Studies on the quality improvement of salted and dried anchovies ( <i>Anchoviella spp</i> ) and soles ( <i>Cynoglossus spp</i> )	KVAFSU	Rs. 0.13 Lakh	2008	Mr.R.M.Prabhu
90	Community based enterprise development for the women groups in Coastal Karnataka	RKVY	Rs. 20.60 Lakh	2008	Dr. C. V.Raju (Institutional Project)
91	Control of insect Infestation in salted and dried fish by use of herbal extract	KVAFSU	Rs. 0.10 Lakh	2008	Dr. C.V.Raju
92	Fishery and biology of the mulky <i>Liza tade</i> from Mulky estuary.	KVAFSU	Rs. 0.10 Lakh	2008	Dr. Anjanayappa
93	Reproductive biology of a pearl spot <i>Etoplus suratensis</i> (Bloch) from Mulky estuary and estimation of biochemical component during breeding and grow out period	KVAFSU	Rs. 0.13 Lakh	2008	S.R. Somashekar
94	Reproductive biology of commercially important mullets of Dakshina Kannada Coast	KVAFSU	Rs. 0.10 Lakh	2008	Dr. (Mrs.) Mridula R. Mendon
95	Creation of awareness and mass training programme on coastal marine fisheries for fisher folk	RKVY	Rs. 73.40 Lakh	2008	S.M.Shivaprakash (Institutional Project)



96	Study of fuel catalyst on board the fishing vessel			2008	Dr. Shashidhar H. Badami
97	Exploring Market Opportunities for Fisheries sector in India : Karnataka	NCAP-ICAR	Rs. 2.53 Lakh	2008	Dr. Ramachandra Bhatta
<b>Institute of Animal Health &amp; Veterinary Biologicals, Hebbal, Bangalore</b>					
98	All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance	ICAR	Rs. 22.35 Lakhs	1998	Dr. C.Renukprasad Dr. P. Giridhar
99	All India Co-ordinated Research Project for Epidemiological Studies on Foot and Mouth disease.	75% ICAR; State-25%	Rs. 25.32 Lakhs	1997	Dr. C.Renukprasad Dr. P. Giridhar
100	Southern Regional Disease Diagnostic Laboratory	Government of India	Rs. 434.95 Lakhs	1999	Dr. C.Renukprasad Dr. M.D.Venkatesha and other Scientists of SRDDL.
101	All India Network Project on Blue Tongue Disease	ICAR	Rs. 5.20 Lakhs	2001-02	Dr. C.Renukprasad Dr. S.M.Byregowda
102	Evaluation of immunogenic response to a recombinant DNA vaccine and recombinant BCG vaccine in bovines.	Govt. of India, DBT	Rs. 25.33 Lakhs	2006-07	Prof. S. Vijaya, S.M. Byregowda, Dr. Chandra Naik
103	Strengthening of Biological production division of IAH&VB for increased production of vaccines for total health coverage of livestock and poultry rural Farmers.	Govt. of India, RKVY		2008-09	Director, Scientist-4 & Scientists in Biological production wing.
104	Up gradation of vaccine production laboratories as per GMP for consistent supply of vaccines to livestock and poultry of farming community. production wing.	Govt. of India, RKVY	Rs. 22.50 Lakhs	2010	Director, Scientist-4 & Scientists in Biological
105	Centre for development of vaccines and diagnostics with a special reference to emerging diseases affecting livestock and poultry of farming community.	Govt. of India, RKVY	Rs. 11.00 Lakhs	2010	Director, Scientist-4 & Scientists in Biological production wing.
<b>Livestock Research &amp; Information Center (Deoni), Hallikhed</b>					
106	Studies on production & reproduction parameters of Deoni cattle	KVAFSU	-	2008	Dr. Satish Biradar Dr. Appanawar MM Dr. Vivek M Patil
108	Studies on Brewers waste (Barley) as dairy buffalo feed	KVAFSU	-	2009	Dr Satish Biradar Dr. Ramchandra

### 3. Research Collaborations / MOUs with National / International Organisations Veterinary College, Hebbal, Bangalore

1. Dr. T. Veena, Associate Professor, Department of Veterinary Physiology, was instrumental in initiating talks for Memorandum of Understanding between National Pingtung University for Science and Technology, Pingtung, Taiwan and Karnataka Veterinary Animal Fisheries Sciences University,

Bidar during 2007 and also renewed during 2009. Following this, two scientists and one Veterinarian working in Bioneds Laboratories were invited to attend the Biotechnological symposium to be held during October 2009 at NPUST, Taiwan.

2. Department of ARGO collaborates with NIANP, Adugodi and Nandini sperm station for postgraduate research.



3. Department of Animal Husbandry and Veterinary Services, Govt of Karnataka.: In the ongoing project of Obscure Disease of cattle and buffaloes of Karnataka: Studies on cause and cure, collaboration is with Department of Animal Husbandry and Veterinary Services, Govt of Karnataka. When ever there is a disease outbreak, it will be attended just by the phone call of the veterinarians and necessary samples will be collected for the diagnosis.
4. Indian Institute of Science Bangalore: Various symposiums and training programmes are organized with collaboration with Central Animal Facility, IISc Bangalore. A project about isolation, identification and characterization of toxic principles of plants is under preparation and will be submitted to DBT.
5. Department of Plant Pathology, GKVK, Bangalore: The fungal affected fodder will be submitted to this department and the fungus will get identified and later it will be subjected to toxicity studies in laboratory animals.
6. NAIP Project titled "Bovine Mastitis: Unraveling Molecular details of Host Microbe Interaction & Development of Molecular Diagnostic Methods" in collaboration with PD\_ADMAS, JNCASR & IVRI.

#### College of Fisheries, Mangalore

A MOU has been signed on 01/01/2008 between KVAFSU and Brethren Colleges Abroad for exchange of students and staffs for academic exchange program

#### 4. Patents Obtained

##### Veterinary College, Hebbal, Bangalore

Dr. B. M. Veeregowda, Assistant Professor of the department of Microbiology has been the recipient of patentee for the invention titled "Novel Biofilm Vaccines against bacterial diseases of Birds & Domestic Animals" (Patent No.216990 on 24.3.2008 by the Intellectual Property India, patent office, Government of India).

#### 5. Technologies developed

##### Veterinary College, Hebbal, Bangalore

Medical management of pyometra in bitches using Antiprogestins has been standardized and successfully applied

##### Institute of Animal Health & Veterinary Biologicals, Hebbal, Bangalore

Development of formalin inactivated cell culture based vaccine against Classical swine fever by Dr. B.M Chandranaik.

#### 6. Awards / Recognitions

Sl. No.	Name of the Scientist	Award	Year	Agency
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Dr. S.Yathiraj	Life time Achievement Award	2006-08	Karnataka Veterinary Association (KVA)
2	Dr. S.Yathiraj	Jewel of India Award" and a "Certificate of Merit	2008	Indian Solidarity Council, New Delhi
3	Dr. S.Yathiraj	"Indira Gandhi Excellence Award" and a "Certificate of Merit"	2008	International Business Council, New Delhi
4	Dr.A.Krishnaswamy	Life time Achievement Award	2006-08	Karnataka Veterinary Association (KVA)
5	Dr. PlacidE.D'Souza	Best Veterinarian Award	2006-08	Karnataka Veterinary Association (KVA)
6	Dr. PlacidE.D'Souza	Fellowship of the National Academy of Veterinary Science	2008	National Academy of Veterinary Science (India)
7	R.V. Prasad and K.V. Jamuna	Best Poster presentation award and presented a gold medal (National level).	2008	Annual Convention of Indian Association of Veterinary Anatomists
8	R.V. Prasad and K.V. Jamuna	Best oral presentation award and presented a gold medal (National level).	2008	Annual Convention of Indian Association of Veterinary Anatomists
9	Dr. T. Veena	Prathibanvitha hiriya vidyarthigala sangha prashasti 2009	2009	Alumni Association, UAS, Hebbal, Bangalore



10	Dr. L. Ranganath	Gold Medal for best paper on wild life surgery session, Ovariohysterectomy in two jackals ( <i>canis aureus</i> )	2008	Indian Society for Veterinary Surgery
11	Dr. S. Isloor	Best Poster presentation Award during the National Seminar on "Advances in Management and Diseases of Wild Animals"	2008	Dept. of Preventive Medicine, Vety College, Bangalore
12	Dr. S. Isloor	Awarded Gold medal for bringing Extra mural project to the University	2009	KVAFSU
13	Dr. B. M. Veeregowda	Awarded Gold medal for bringing Extra mural project to the University	2009	KVAFSU
14	Dr. B. M. Veeregowda	Awarded Certificate of Merit for the Patent on "Novel Biofilm vaccines against bacterial diseases of Birds and animals"	2009	KVAFSU
15	Mr. Siddarajaiah, Senior Lab. Assistant, Dept. of Anatomy, was awarded the "Sanmaana Patra" by the Co-operative department Govt. of Karnataka at the 55 <sup>th</sup> All India Sahakara Saptaha 2008			
16	The AICRP on Poultry Breeding for Meat, Veterinary College, Bangalore secured the First Rank among broiler centers of the country. This was awarded in the 26 <sup>th</sup> Annual Scientists Meeting of AICRP on Poultry Breeding for Meat held in May, 2008 at the Anand Agricultural University, Anand			
<b>Veterinary College, Bidar</b>				
17	Dr. B. V. Shivaprakash	Ruminant surgery session award	2008	Indian Society for Veterinary Surgery
18	Dr. B. V. Shivaprakash	Intas polivet award for best clinical article	2008	Intas polivet
19	Dr. Mahesh Dodamani	Young Scientist	2008	ISSAR, Bangalore 11 to 13 Dec. 2008
20	Dr. Basavaraj Awati	State Basavjoty Prashasti	2008	Basavjoty Kala Pratishthan, Bijapur
<b>Veterinary College, Shimoga</b>				
21	Dr. Ananda, K. J.	Karnataka Veterinary, Animal and Fisheries Sciences University "GOLD MEDAL"	Jan, 17 <sup>th</sup> 2009	KVAFSU, Bidar
<b>Dairy Science College, Hebbal, Bangalore</b>				
22	Mrs. Jayashri, P. Hiremath	Certificate of merit & gold medal in recognition of mobilization of grant for reseach project entitled " Application of caseinoph-oseptides from un-utilized bio-resources In the prevention of dental Carles"	Jan 2009	KVAFSU, Bidar
<b>Institute of Animal Health &amp; Veterinary Biologicals, Bangalore</b>				
23	Dr. B. M Chandranaik	Technology Development Convocation award (Certificate of merit) 2009	Jan, 17 <sup>th</sup> 2009	Karnataka Veterinary Animal and Fisheries Sciences University, Bidar.
24	Dr. B. M Chandranaik	Best Poster Presentation award-2009	Feb 2009	The National symposium of Indian Society for Immunology and Biotechnology, Hisar

## 7. Information on Research Council and important decisions taken

### Directorate of Research

Important decisions taken in the 4<sup>th</sup> Research Council are as follows,

1. To organize a workshop on problems in Inland fisheries involving experts from the line department.
2. It was resolved to have a local screening / monitoring committee consisting of Dean, Head of Department, PI and Head of the Division to screen and monitor all newly proposed and on going research projects at College level. The Director, IAH&VB will propose a local committee for screening and monitoring of the research projects in their Institute.
3. It was resolved to continue with the present practice of holding the Annual Technical Meet of Research and Extension at Veterinary College, Bidar & Bangalore and College of Fisheries, Mangalore and IAH&VB, Bangalore separately. The newly established colleges will have to participate in the Annual Technical Meet conducted at the nearest campus till those are completely developed.
4. It was resolved to provide budget for staff research activities for the year 2009-10.
5. It was resolved to award teachers to the science who transport external food more than Rs. 1.00 lakh.
6. Three staff pattern for Buffalo Breeding Research & Information Center, Dornalli, Shahapur, Gulbarga District and Mudhol Hound Research & Information Center, Thimmapur, Mudhol was proposed to the Academic Council for the approval.
7. It was resolved to ratify the decision taken to enhance rates charged for ELISA tests.
8. It was resolved to approach the ICAR to supply the kits to estimate pre and post FMD vaccination titers in animals.

## 8. Research Publications

### Research articles

#### Veterinary College, Hebbal, Bangalore

1. Jagadeeswary, V., Savitha, B., Ravi Kumar, S., and Satyanarayan, K. 2008. An Evaluative Study on the Library and Information Services of Acharya N.G Ranga Agricultural University. *The Mysore Journal of Agricultural Sciences*, 42 (4):707-711.
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**9. Papers presented in National / International symposia / seminar**

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1. Honnappa T. G., Effect of gonadotropin releasing hormone five days after artificial insemination on conception rate in cross bred cows. 24<sup>th</sup> Annual Convention of the Indian Society for Study of Animal Reproduction, 11-13<sup>th</sup> Dec., 2008, Bangalore. (ISSAR) Indian Society for Study of Animal Reproduction.
2. Chandrashekar Murthy V, Reduced dose of PGF2 for treatment of repeat breeding cows. 24<sup>th</sup> Annual Convention of the Indian Society for Study of Animal Reproduction, 11-13<sup>th</sup> Dec., 2008, Bangalore. (ISSAR) Indian Society for Study of Animal Reproduction.
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202. Harish, B.R, Giridhar, Shivashankar, Rajkumari Sanjukta, Swati Bamne, Prathiush,P.R, Shivaraj, Chandranaik, B.M and Renukprasad, C. Granulomatous Hepatitis in free ranging Elephants in Cauvery wild life sanctuary. National seminar on Advances in Management and diseases of wild animals, Page No. 32 during 20<sup>th</sup> - 21<sup>st</sup> June, 2008. Bangalore.
203. Harish, B.R, Swati Bamne Chandranaik,B.M,



- Rishikeshavan, Roopa, Venkatesha, M.D and Renukaprasad, C., Acute Pneumonia and Polycystic kidney in a Lioness. National seminar on Advances in Management and diseases of wild animals, Page No. 33 during 20<sup>th</sup> -21<sup>st</sup> June, 2008. Bangalore.
204. Harish, B.R, Swati Bamne, Prathlush, P.R, Rajkumari Sanjukta, Shivaraj, Chandranalk, B.M, Venkatesha, M.D and Renukaprasad, C. Polycystic kidneys complicated with Pneumonia and Nephritis in a wild bison, National seminar on Advances in Management and diseases of wild animals, Page No. 34 during 20<sup>th</sup> -21<sup>st</sup> June, 2008. Bangalore.
205. Dr. Sanjeev Kumar. Hydrocyanic acid poisoning in Buffaloes: a case report. 25<sup>th</sup> Annual Conference of society of Toxicology (STOX) India and International Symposium on "Monitoring and Modulating Global Resources of environmental and food Contaminants; Nature versus chemicals held during 16<sup>th</sup>-18<sup>th</sup> Oct., 2008. GADVASU Ludhiana.
206. Chandranaik, B.M, Swati Bamne, Harish, B.R, Jayakumar Satav, Shivaraj, Prathiush, P.R, Rajkumari Sanjukta, Venkatesha, M.D and Renukaprasad, C. Diagnosis of classical swine fever by gross pathology, histopathology and polymerase chain reaction. Silver Jubilee Annual Conference of Indian association Of Veterinary Pathologist & International Symposium & Satellite Seminar held during 10<sup>th</sup> -12<sup>th</sup> Nov., 2008. IVRI, Bareilly.
207. Swati Bamne, Chandranaik, B.M, Rishikesavan, Shivaraj, Rajkumari Sanjukta, Venkatesha, M.D and Renukaprasad, C. Pathomorphological changes in pulmonary tuberculosis of a sloth bear. Silver Jubilee Annual Conference of Indian association of Veterinary Pathologist & International Symposium & Satellite Seminar held during 10<sup>th</sup> -12<sup>th</sup> Nov., 2008. IVRI, Bareilly.
208. Raveendra Hegde, Amitha Gomes, P. Giridhar and C. Renukaprasad. Detection and typing of FMDV by SELISA. XXIII Annual conference of IAVMI held during 25<sup>th</sup> 26<sup>th</sup> Nov., 2008.
209. Yeshwant S.L., S.M. Byregowda, S. Jaykumar, Shivraj Murag, Swathi, Amitha Gomes, Mukund Gajendragad, M.D. Venkatesh and C. Renukaprasad. Concurrent infections of CSF and pasteurellosis in pigs. XXIII Annual conference of IAVMI held during 25<sup>th</sup> 26<sup>th</sup> Nov., 2008.
210. Amitha Gomes, Raveendra Hegde, S.M. Byregowda, Vijayashree Varadarajan, Yeshwant S.L., P. Giridhar and C. Renukaprasad. Evaluation of humoral immune response to sheep pox vaccine. XV Annual convention of ISVIB during 26<sup>th</sup> -28<sup>th</sup> Feb., 2009.
211. Raveendra Hegde, Amitha Gomes, S.M. Byregowda, P. Giridhar and C. Renukaprasad. Thermostability of live attenuated PPR vaccine. XV Annual convention of ISVIB during 26<sup>th</sup> -28<sup>th</sup>, Feb., 2009.

**Livestock Research & Information Center (Deoni),  
Hallikhed**

212. Satish C Bladar and S.M Ustruge. Azolla Production & livestock feeding -Organic farming: Organic livestock feeding global issues trends and challenges. ISAPM Society, Kolkata.

**Fisheries Research & Information Center,  
Hesaraghatta**

213. Y. Basavaraju, Rajkumar Pujari, G.Y. Keshavappa and Mohire, K. V. Performance of carp stunted fingerlings in selected seasonal tanks in northern district of Karnataka. 8<sup>th</sup> Indian Fisheries forum 2008. College of Fisheries, Kolkata, West Bengal.

## IV. EXTENSION EDUCATION

### Director of Extension: Prof. H. Shivananda Murthy

The University has carried out Extension Education activities for transfer the developed technologies to the un-reached farming community through training programmes, demonstrations, scientists-farmers interaction sessions, exhibitions, Januvaru, kukkata & matsya melas, publication of folders, bulletins and books. Extending diagnosis and treatment services for livestock diseases, surgical and reproductive problems, organization of free animal health camps, providing information through radio and television programmes were also under taken. All the constituent Colleges namely, Veterinary Colleges at Bangalore, Bidar, Shimoga and Hassan; Dairy Science Colleges at Hebbal and Gulbarga and College of Fisheries at Mangalore, various Livestock Research & Information Centers / Fisheries Research & Information Centers located through out the jurisdiction of Karnataka, Extension Education Units located at Bangalore, Bidar and Mangalore Campuses were carried out Extension activities through out the year.

### 1. Transfer of Technologies

#### a) Technologies Released / Commercialized by the Veterinary College, Hebbal, Bangalore

1. The drug metaclopramie was introduced as the line of therapy in the treatment of bovine non specific anorexia by the Department of Pharmacology and Toxicology.
2. Documentary made on " The Giri Raja Chicken" by The Ecologist Film Unit in collaboration with the Department of poultry science. (Available on net at [http://www.green.tv/ecologist\\_1](http://www.green.tv/ecologist_1)) by the Department of Poultry Science.
3. Biofilm vaccine against Bovine Mastitis due to *Staphylococcus aureus* and *E.coli* by the Department of Veterinary Microbiology.

### 2. Trainings / workshops / seminars organised

#### Veterinary College, Hebbal, Bangalore

1. Dr. M. Narayana Swamy, Professor & Head, Associated with Dept. of Livestock Products Technology in organizing "National Symposium on Safe Meat for good health and environment" and

3<sup>rd</sup> Convention of Indian Meat Science Association from 4<sup>th</sup> to 6<sup>th</sup> July at Veterinary College, Bangalore.

2. Dr. Y. B. Rajeshwari, Department of Livestock Production & Management organized training programmes on "Rabbit Rearing" at different villages namely, Kunikenahalli, Shettygere (Chiknayakanahalli), Konehalli, Chikaballapura of Tumkur District and 5 training programmes were organized in the Veterinary College, Hebbal, Bangalore. Total of 740 farmers were participated and benefited by the training programme. The training programme were sponsored under DBT projects and Sujala Institute, Chickaballapura.
3. Department of Livestock Production Management and Department of Animal Husbandry & Extension jointly organized 5 training programmes on "Broiler rabbit production and management" at Kunekenahalli, Shettigeri (Chikkanayakanahalli), Konehalli and Kolavanahalli of Tumkur District. Total 270 farmers were participated and benefited by the programme. The training programmes were sponsored under the DBT project.
4. Department of AHE organized 19 ICE Institution cum exposure trainings at Veterinary College, Hebbal, Bangalore. Total of 950 farmers were participated and benefited by the training. The trainings were sponsored by Watershed Development Department and Veterinary College, Hebbal, Bangalore.
5. Department of AHE organized 3 training programmes on "Writing skits in animal husbandry & veterinary practices" at Veterinary College, Hebbal, Bangalore under Extension Project. Total of 60 participants were participated and benefited by the programme.
6. The Extension Education Wing, Bangalore Campus organized extension programme at Viswanathapura on 30<sup>th</sup> January, 2009. Total of 50 farmers were participated and benefited by the programme. The training was sponsored by the Directorate of Extension Education, KVAFSU, Bidar.
7. Dr. M. Narayana Bhat, Department of VEPM organized National Seminar on "Advances in management and diseases of wild animals" during 20<sup>th</sup> - 21<sup>st</sup> June, 2008 at Bangalore. The National Seminar was organized by the Government of Karnataka and Government of India. 250 officers were participated in the seminar.



8. Dr. M. Narayana Bhat, Department of VEPM organized 2 training programmes on "Zoonotic diseases" for field Vets at Bangalore. The trainings were sponsored by the Karnataka Veterinary Council. 57 Officers of line departments were participated and benefited by the training.
  9. Dr. M. L. Satyanarayana, Dr. Narayana Bhat and Dr. H. A. Upendra, Department of Pathology and Clinical Medicine organized training on "Clinical laboratory diagnostic techniques" during 2<sup>nd</sup> - 7<sup>th</sup> February, 2009 at Veterinary College, Hebbal, Bangalore. The training was sponsored by Karnataka Veterinary Council. 23 Officers of line department were participated and benefited by the training.
  10. Dr. Placid E D'Souza, Professor & Head, Department of Parasitology organized XI National Training Programme on "Trends and perspectives in the detection, identification and control of parasitic diseases" at Veterinary College, Hebbal, Bangalore during 10<sup>th</sup> - 31<sup>st</sup> November, 2008. 20 Officers were participated and benefited by the training. The training was sponsored by ICAR Centre of Advanced Studies.
  11. Dr. Placid E D'Souza, Professor & Head, Department of Parasitology organized XI National Training Programme on "Emerging and re-emerging parasitic diseases of Veterinary and Public Health importance" at Veterinary College, Hebbal, Bangalore during 2<sup>nd</sup> - 22<sup>nd</sup> March, 2009. 14 Officers were participated and benefited by the training. The training was sponsored by ICAR Centre of Advanced Studies.
  12. Dr. Nadeem Fairoze, Department of Livestock Production & Technology organized National Seminar on "Safe meat for good health and environment" during 4-5<sup>th</sup> July, 2008. 350 participants were participated. The seminar was sponsored by the Government of Karnataka and Private Industries.
  13. Dr. Rathnamma, D., Department of Veterinary Microbiology organized training programme on "Zoonotic Diseases" during January 19<sup>th</sup> - 24<sup>th</sup>, 2009 at Veterinary College, Hebbal, Bangalore for the benefit of Veterinary Officers of Department of Animal Husbandry & Veterinary Services (AH&VS). 27 Veterinary Officers of AH&VS were participated and benefited by the training programme. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  14. Dr. Rathnamma, D., Head of the Department, Department of Veterinary Microbiology organized seminar on "Common Bacterial & Viral Zoonotic Diseases" on 18<sup>th</sup> September, 2008 at Kannada Sabhangana, KVAFSU Campus, Bangalore. 250 Officers were participated and benefited by the seminar.
  15. Dr. S. Yathiraj, Department of Clinical Veterinary Medicine organized International Conference at Bangalore on 7<sup>th</sup> August, 2008. The International Conference was sponsored by KVAFSU.
  16. Dr. S. Yathiraj, Department of Clinical Veterinary Medicine organized Vice-Chancellor's Conference at Bangalore on 29<sup>th</sup> November, 2008. The Conference was sponsored by KVAFSU.
  17. The Department of Animal Reproduction & Gynaecology Obstetrics organized National Seminar on "Recent trends and future strategies for improved reproduction of livestock companion and wild animals" during 11-13<sup>th</sup> December, 2009 at Bangalore. 350 Officers were participated. The seminar was sponsored by ISSAR.
- #### Veterinary College, Bidar
18. Dr. B. V. Shivaprakash, Department of Surgery & Radiology was organized Techniques in Large Animal Surgery during 19<sup>th</sup> - 25<sup>th</sup> January, 2009 at Bidar. 28 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  19. Dr. D. Dilipkumar, Department of Surgery & Radiology organized training on "Anaesthesia and pain management in animals" during 23<sup>rd</sup> - 28<sup>th</sup> February, 2009. 16 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  20. Dr. B. V. Shivaprakash, Department of Surgery & Radiology was organized training on "Diagnostic Radiology" during 9<sup>th</sup> - 14<sup>th</sup> March, 2009. 16 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  21. Dr. N. A. Patil, Dr. Vivek, R. Kasarallikar and Dr. S. P. Sarangamath, Department of Veterinary Clinical Medicine organized training on "Advances in diagnosis and treatment of diseases of Buffaloes" during 24<sup>th</sup> - 29<sup>th</sup> November, 2008 at Veterinary College, Bidar. 19 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.



22. Vivek, R. Kasarallikar, N. A. Patil and K. G. Udupa, Department of Veterinary Clinical Medicine organized training on "Current concepts in diagnostic and therapeutic protocols in pet animal practice" during 8<sup>th</sup>-13<sup>th</sup> December, 2008 at Veterinary College, Bidar. 13 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  23. N. A. Patil, Vivek, R. Kasarallikar and S. P. Sarangamath, Department of Veterinary Clinical Medicine organized training on "Fluid and Electrolyte therapy in Veterinary practice" during 5<sup>th</sup>-10<sup>th</sup> January, 2009 at Veterinary College, Bidar. 17 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  24. Prakash, N., Associate professor & Head, Department of Pharmacology & Toxicology organized training on "Chemotherapy and Clinical Toxicology" during 16<sup>th</sup> - 21<sup>st</sup> February, 2009 at Veterinary College, Bidar. 18 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  25. R. B. Dhabale, M. K. Tandle, S. D. Sonwane, R. G. Bijurkar and M. S. Doddamani, Department of Animal Reproduction & Gynaecology Obstetrics organized 2 trainings on "Handling of frozen semen" during 29<sup>th</sup> - 31<sup>st</sup> December, 2008 and 16<sup>th</sup> - 18<sup>th</sup> March, 2009 respectively. Total 17 Officers were participated. The training was sponsored by Veterinary Council of India, New Delhi.
  26. M. K. Tandle, S. D. Sonwane, R. G. Bijurkar and M. S. Doddamani, Department of Animal Reproduction & Gynaecology Obstetrics organized 11 trainings on "Artificial insemination and treatment of infertility in dairy cattle and buffaloes" at Bidar. Total 166 Officers were participated in the training. The training was sponsored by K LDA.
  27. K. C. Veeranna and Shivakumar K Radder, Department of Veterinary & Animal Husbandry Extension organized training on "Human Resource Development" during 15<sup>th</sup> - 20<sup>th</sup> September, 2008 at Veterinary College, Bidar. 23 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  28. K. C. Veeranna and Shivakumar K Radder, Department of Veterinary & Animal Husbandry Extension organized training on "Extension tools and techniques in veterinary practice and livestock production" during 17<sup>th</sup> - 22<sup>nd</sup> November, 2008 at Veterinary College, Bidar. 24 Officers were participated. The training was sponsored by Karnataka Veterinary Council, Hebbal, Bangalore.
  29. Dr. K. C. Veeranna and Dr. Shivakumar K Radder, Department of Veterinary & Animal Husbandry Extension organized training on "Sustainable livestock production" during 23<sup>rd</sup> - 27<sup>th</sup> March, 2009 at Veterinary College, Bidar. 12 Officers were participated. The training was sponsored by ICAR, New Delhi.
  30. K. C. Veeranna, Department of Veterinary & Animal Husbandry Extension organized training for staff of Allana Conserva, Zaheerabad during 8<sup>th</sup> - 13<sup>th</sup> April, 2008 at Veterinary College, Bidar. 10 number of staff of Allana Conserva, Zaheerabad were participated and benefited. The training was sponsored by Allana Conserva, Zaheerabad.
  31. K. C. Veeranna, Department of Veterinary & Animal Husbandry Extension organized NAIP Launch Workshop during 23<sup>rd</sup> - 27<sup>th</sup> March, 2009 at Veterinary College, Bidar. The workshop was sponsored by ICAR, New Delhi.
  32. Vivek Patil, Department of Livestock Production & Management organized training on "Information technology in veterinary practice" during 9<sup>th</sup> - 14<sup>th</sup> March, 2009 at Veterinary College, Bidar. 20 Officers were participated in the training and benefited. The training was sponsored by Karnataka Veterinary Council, Bangalore.
- Veterinary College, Shimoga**
33. V. B. Shettar organised World Veterinary Day on 26<sup>th</sup> April, 2008 at Shimoga and same was sponsored by Veterinary College, Shimoga and Department of Animal Husbandry & Veterinary Services.
  34. Manjunatha, L., Department of Veterinary & Animal Husbandry Extension organized 2 workshops on "Evolving skits for use in animal husbandry extension" at Bangalore. The workshop was sponsored by Directorate of Extension, KVAFSU, Bidar.
- Dairy Science College, Hebbal, Bangalore**
35. Department of Dairy Technology organized training programme cum demonstration on "Milk product preparation" for housewives on 28<sup>th</sup> July, 2008. 20 Housewives were participated and benefited by the training. The training was sponsored by the KVAFSU.
  36. Department of Dairy Technology organized 4



training programmes cum demonstration on "Milk processing and testing preparation" for the benefit of farmers. Total 80 farmers were participated and benefited by the programmes. The trainings were sponsored by the Karnataka Milk Federation (KMF).

#### **Extension Education Wing, Bangalore Campus**

37. E. Narayanappa, Head of EEW and Mr. Suresh, T., Extension Education Wing, Bangalore Campus organized World Food Day at Solur, Devanahally Taluk on 24<sup>th</sup> October, 2008. 200 farmers were participated. The World Food Day was sponsored by the Directorate of Extension, KVAFSU.
38. E. Narayanappa, Head of EEW and Mr. Suresh, T., Extension Education Wing, Bangalore Campus organized Group Discussion Meeting on 'Soil Testing' at Solur, Devanahally Taluk on 19<sup>th</sup> November, 2008. 10 farmers were participated and benefited by the group discussion. The programme was sponsored by the Directorate of Extension, KVAFSU.
39. Dr. E. Narayanappa, Head of EEW and Mr. Suresh, T., Extension Education Wing, Bangalore Campus organized Group Discussion Meeting on 'Village Development Committee' at Solur, Devanahally Taluk on 26<sup>th</sup> November, 2008. 20 farmers were participated and benefited by the group discussion. The programme was sponsored by the Directorate of Extension, KVAFSU.
40. E. Narayanappa, Head of EEW and Mr. Suresh, T., Extension Education Wing, Bangalore Campus organized "Women in Agriculture Day" at Solur, Devanahally Taluk on 12<sup>th</sup> December, 2008. 120 farm women were participated and the programme was sponsored by the Directorate of Extension, KVAFSU.
41. E. Narayanappa, Head of EEW and Mr. Suresh, T., Extension Education Wing, Bangalore Campus organized training cum demonstration on "Value added to fish products" at Solur, Devanahally Taluk on 12<sup>th</sup> December, 2008. 50 farmers were participated and benefited by the training programme. The training programme was sponsored by the Directorate of Extension, KVAFSU.
42. Extension Education Wing, Bangalore Campus organized 'Farmers-Scientists Interaction Session' at Vishwanathpura, Devanahally Taluk on 30<sup>th</sup> January, 2009. 100 farmers were participated in the session. The session was sponsored by Directorate of Extension, KVAFSU, Bidar.

43. Dr. E. Narayanappa, Head of EEW and Mr. Suresh, T., Extension Education Wing, Bangalore Campus organized training programme on "Soil testing campaign" at Solur, Devanahally Taluk on 18<sup>th</sup> March, 2009. 150 farmers were participated and benefited by the training programme. The programme was sponsored by the Directorate of Extension, KVAFSU, Bidar.

#### **College of Fisheries, Mangalore**

44. Department of Aquaculture organized basic training on "Ornamental fish culture and breeding for MPEDA beneficiaries" during 25<sup>th</sup> - 30<sup>th</sup> September, 2008. 20 farmers were participated and benefited. The training was sponsored by MPEDA.
45. Department of Fisheries Microbiology organized FAQ AIDA International Workshop on "Taxonomy and Ecology of harmful algae and study of biotoxins" during 21<sup>st</sup> - 25<sup>th</sup> January, 2008. The workshop was sponsored by FAQ.
46. Department of Fisheries Microbiology organized training on "Basic Bio informatics" during 19<sup>th</sup> - 21<sup>st</sup> February, 2009. The programme was sponsored by DBT.
47. Department of Fish Processing Technology organized demonstrations on "Fish production principles during 2008-09. The demonstrations were sponsored by the Department of Fisheries.
48. Department of Fish Processing Technology organized 2 Awareness Camps during 2008-09. Total of 100 farmers were participated. The awareness camps were sponsored by the Directorate of Extension, KVAFSU, Bidar.
49. Department of Fisheries Environment and Ecology organized Aquatic pollution and its abatement on 30<sup>th</sup> June, 2008 and same was sponsored by the Government of India.
50. Department of Fisheries Environment and Ecology organized public consultation on 'Coastal Management Zone Notification' on 16<sup>th</sup> Aug., 2008 and same was sponsored by the Government of India.
51. Department of Fisheries Resources & Management organized training on 'Pearl culture' on August, 2008 and same was sponsored by the KVAFSU, Bidar.

**Institute of Animal Health & Veterinary Biologicals, Hebbal, Bangalore**

52. Southern Regional Disease Diagnostic Laboratory (SRDDL) and Institute of Animal Health & Veterinary Biologicals (IAH&VB), Hebbal, Bangalore jointly organized training on "ELISA for Disease Diagnosis (JD, Brucella, IBR, PPR)" during 24<sup>th</sup> - 26<sup>th</sup> June, 2008. The training was sponsored by the Government of India.
53. SRDDL organized National Seminar on "Recent trends in control of animal diseases with special reference to vaccines and diagnostics and meeting of the Heads of State Biological Units" during 28<sup>th</sup> - 29<sup>th</sup> June, 2008. The seminar was sponsored by the Government of India.
54. SRDDL organized training programme on 'Collection of brain samples for diagnosis of bovine spongiform encephalopathy' on 5<sup>th</sup> August, 2008. The training was sponsored by the Government of India.
55. SRDDL organized 'Concepts of bio-safety' on 4-5<sup>th</sup> November, 2008 and the same was sponsored by the Government of India.
56. SRDDL organized training on 'Diagnosis of STD tuberculosis and JD' during 29<sup>th</sup> - 31<sup>st</sup> January, 2009. The training was sponsored by the Government of India.
57. SRDDL, IAH&VB and Government of India organized 'Preparedness and containment of Avian Influenza' during 2<sup>nd</sup> - 6<sup>th</sup> March, 2009. The same was sponsored by the Government of India.

**Livestock Research & Information Center (Deoni), Hallikhed**

58. Livestock Research & Information Center (Deoni) (LRIC), Hallikhed organized 5 trainings on Dairy Farming at LRIC, Hallikhed during 2008-09 for the benefit of Self Help Groups (SHGs). 156 SHG members participated and benefited by the training. The trainings were sponsored by the Orbit NGO.
59. LRIC (Deoni Farm) organized training on "Aquaculture and Fisheries" during 16<sup>th</sup> - 18<sup>th</sup> July, 2008. 25 fish farmers were participated and benefited by the training. The training was sponsored by the KVAFSU, Bidar.
60. LRIC (Deoni Farm) organized Field Day on 4<sup>th</sup> September, 2008. 500 farmers were participated and benefited by the training. The field day was

sponsored by the KVAFSU.

61. LRIC (Deoni Farm) organized 2 training programmes on "Dairy Farming". 422 farmers and farm women were participated and benefited by the trainings. The trainings was sponsored by the KMF.

**Livestock Research & Information Center, Konehalli, Tiptur**

62. LRIC, Konehalli organized training on 'Profitable Rabbitary' for the benefit of rural farmers on 19<sup>th</sup> July, 2008. 75 rural farmers were participated and benefited by the programme. The training was sponsored by the LRIC, Konehalli and Department of LPM, Veterinary College, Hebbal, Bangalore.
63. LRIC, Konehalli organized training on 'Profitable Dairy' for the benefit of farmers on 29<sup>th</sup> July, 2008. 100 farmers were participated and benefited by the programme. The training was sponsored by the LRIC, Konehalli.
64. LRIC, Konehalli organized training on 'Rabbit farming' for the benefit of farmers on 23<sup>rd</sup> October, 2008. 50 farmers were participated and benefited by the programme. The training was sponsored by the LRIC, Konehalli, Department of LPM, Veterinary College, Hebbal, Bangalore.

**Fisheries Research & Information Center, Konehalli, Ankola**

65. Dr. Lakshmi pathi, M. T., Fisheries Research & Information Center (FRIC), Ankola organized training on "Eco-friendly and sustainable shrimp farming and abuse of antibiotics in aquaculture to the farmers of coastal Karnataka" during 11<sup>th</sup> - 20<sup>th</sup> November, 2008 at FRIC, Ankola. 17 fish farmers were participated in the training. The training was sponsored by the NFDB, Hyderabad.
66. Dr. Lakshmi pathi, M. T., Fisheries Research & Information Center (FRIC), Ankola organized training on "Culture of commercial important brackish water fishes to the farmers of coastal Karnataka" during 16<sup>th</sup> - 25<sup>th</sup> March, 2008 at FRIC, Ankola. 21 fish farmers were participated in the training. The training was sponsored by the NFDB, Hyderabad.



### 3. On Campus / on Farm trainings

Sl. No.	Department	Place & Date	Type of training	Title	No. of Participants	Resource persons
<b>Veterinary College, Hebbal, Bangalore</b>						
1	LPM	25.11.08 Bangalore	Farmers training	Supplementary feeding of sheep	30	U. Krishnamoorthy
2	Pathology	21 <sup>st</sup> - 25 <sup>th</sup> Jan, 08 4 <sup>th</sup> - 8 <sup>th</sup> Feb, 08	Disease Diagnosis	ASCAD Training programme for Paraveterinarians	38	
3	Pathology	17 <sup>th</sup> 19 <sup>th</sup> Mar, 08 24 <sup>th</sup> - 26 <sup>th</sup> Mar, 08	Diagnosis of Rabies	Training on Diagnosis of Rabies under CVE	38	
4	Animal Nutrition	Veterinary College Bangalore 7,14,21,28 Oct. 2008	Rural Women SHG Group from Chickballapur (Sujala Watershed Management)	Enrichment of crop residues in Dairy Cattle feeding	200	Dr. K.Chandrapal Singh
5	ARGO	Dept of ARGO	Farmers training to Sujala Jala Vidyuth Yojane	Estrus detection, postpartum care	30	Dr. V.C. Murthy
6	ARGO	Dept Of ARGO	Farmers training to Sujala Jala Vidyuth Yojane	Estrus detection, postpartum care	30	Dr. G. Sudha
<b>Veterinary College, Bidar</b>						
7	Dept. of Veterinary & AHE	Veterinary College, Bidar, 1-4-2009 to 31-08-2009	On Campus	Bidri goat potential for income generation and employment, stall feeding of goats, complete feed preparation, procurement of feed ingredients, effective utilization of Roughages	60	Dr. K. C. Veeranna and Dr. Shivakumar Radder
8	- do -	Veterinary College, Bidar, 1-4-2009 to 31-08-2009	On Campus	Scientific management practices, selective breeding, feeding of pregnant does, safe milk and meat production practices, disease control Measures	60	- do -
9	Dept. of Veterinary & AHE		On Farm	LIG concept, book keeping, weekly saving, internal credit and bank linkage, mobilization of resources and microfinance activities.	60	Dr. K. C. Veeranna, Dr. Shivakumar Radder
10	- do -		On Farm	Integration of goat rearing activities through LIG for sustainability, Insurance of goats, effective utilization of feed resources, vaccination of goats.	60	- do -
11	- do -	29-11-2008	NAIP launch workshop	Dairy Farming		Dr. Shivakumar, K Radder
12	- do -	29-11-2008	- do -	Goat Farming		Dr. K. C. Veeranna
13	- do -	23-03-2009	Farmers Training Programme	Dairy Farming	30	Dr. K. C. Veeranna

14	- do -	24-03-2009	- do -	Goat Farming	30	- do
<b>Dairy Science College, Hebbal, Bangalore</b>						
15	Hadona-halli,	Milk production Dodda-ballapura Feb. 24 2009 to Mar. 5, 2009	As part of RDWEP & collection	for IV year B.Tech (D.Tech) students	22	Dr. H. Manjunatha & also Coordinator for the RDWE. Dr. R. Prabha Mr.B.Ramachandra Stayed with students in RDWE & helped in making charts for the exhibition.
16	Dairy Chemistry	Hebbal,Bangalore 21.08.08 & 23.08.08	Refresher training to Karnataka Milk Federation (KMF) Inservice personnel.	Chemical analysis of fluid milk	13	Dr. Narasimha Murthy Professor and Head Dr.P.K.Keshava Prasad Professor Mr. C. Kempanna Associate professor
17	Dairy Chemistry	Hebbal, Bangalore 27.08.08 & 29.08.08	Refresher training to Karnataka Milk Federation (KMF) Inservice Personnel.	Chemical analysis of fluid milk	15	Dr. Narasimha Murthy Professor & Head Dr.P.K.Keshava Prasad Professor
18	Dairy Chemistry	Hebbal, Bangalore 24.09.08 & 26.09.08	Refresher training to Karnataka Milk Federation (KMF) Inservice Personnel	Chemical analysis of fluid milk	13	Dr. Narasimha Murthy Professor & Head Dr. P. K. Keshava Prasad Professor Mr.C.Kempanna Associate professor
19	Dairy Chemistry	Hebbal, Bangalore 22.10.08 & 24.10.08	Refresher training to Karnataka Milk Federation (KMF) Inservice Personnel	Chemical analysis of fluid milk	11	Dr. Narasimha Murthy Professor and Head Dr. P.K. Keshava Prasad Professor Mr.C.Kempanna Associate professor
20	EEW,	Hebbal, Bangalore 11-07-08		"Value added Bakery, Ragi & Milk product preparation"	40	Dr.E.Narayanappa



#### 4. Trainings / Workshops / Weminars Participated as Trainee Scientists

Sl. No.	Name of the teacher	Place & Date	Title	Organizer
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Y.B. Rajeshwari	Bangalore Jan 2008-June, 2008	Laboratory Animal Management	IISC, Bangalore
2	Dr Kavitha Rani B	Bangalore, 17 <sup>th</sup> - 19 <sup>th</sup> Mar, 08	Training on Diagnosis of Rabies under CVE	IVC & Dept of Pathology, Veterinary College, Bangalore
3	M.C. Anil Kumar	Bangalore 20 <sup>th</sup> and 21 <sup>st</sup> April 2008	KVA Technical Seminar	Karnataka Veterinary Association
4	Dr.A.Krishna Swamy And Dr.V. Chandra-shekara Murthy	Bangalore 20 <sup>th</sup> - 21 <sup>st</sup> April, 2008	Advanced techniques in animal disease diagnosis	Annual conference and technical seminar of KVA
5	Dr.Placid E. D'souza	Bangalore 20.04.2008 and 21.04.2008	Advanced techniques in Animal disease diagnosis; Feeding concepts for sustainable and Economical Dairy Production; Issues in small animal practice	Karnataka Veterinary Association
6	Dr L. Ranganath	Bangalore 20 <sup>th</sup> 21 <sup>st</sup> April, 2008	Advanced techniques in animal disease diagnosis	Annual Conference and Technical Seminar of Karnataka Veterinary Association
7	Dr R. Jayashree	Bidar, 28 <sup>th</sup> May to 2 <sup>nd</sup> June, 2008	Educational Methodology and Instructional Technology	KVAFSU and NAARM, Hyderabad.
8	Dr.V. Chandrashekara Murthy	Bangalore 24.05.2008	NSS-National seminar on human right and social harmony	NSS regional center, Bangalore University
9	Dr.S.B.Prasanna	Bidar 28-5-08 to 2-6-08	Teachers training course-Faculty development programme on education methodology and instructional technology.	NAARM, Hyderabad
10	Dr. Sharada. R	Bidar 28.05.2008 to 02.06.2008	Educational Methodology and Instructional Technology	KVAFSU, Bidar & NAARM, Hyderabad
11	Dr.M.C. Anil Kumar	Bidar 28.5.2008 to 2.6.2008	Faculty Development Programme on Educational Methodology and Instructional Technology	NAARM, Rajendranagar Hyderabad.
12	Dr L. Ranganath	Bangalore 20 <sup>th</sup> to 21 <sup>st</sup> June 2008	Advances in management of Diseases In wild animals	Veterinary College, Bangalore
13	Dr.V. Chandrashekara Murthy	Bangalore 20 - 21 <sup>st</sup> June, 2008	Advances in management of diseases in wild animals	Department of Preventive Medicine, Vety. collg, Bangalore
14	M. Narayana Bhat, P.T. Ramesh and M.C. Anil Kumar	Bangalore 14.6.2008	"Hands on Workshop on Endoscopy and External Nutrition"	M/s MARS India, Hyderabad
15	Dr. S.Yathiraj, Dr.H.A. Upendra, Dr.C.Ansar Kamran and Dr.M.A. Kshama	Bangalore 14.6.08	Gastrointestinal endoscopy and parenteral nutrition	Pedigree and Veterinary College
16	Dr.A.Krishna Swamy and Dr. V. Chandra shekara Murthy	Bangalore 14.06.08	Endoscopy In small animals	Waltham company, UK
17	M. Narayana Bhat, P.T. Ramesh and M.C. Anil Kumar	Bangalore 20.6.2008 to 21.6.2008	"Advances in management and diseases of wild animals"	Veterinary College, KVAFSU, Hebbal, Bangalore

18	Dr. T. Veena	Bangalore, 20 <sup>th</sup> -21 <sup>st</sup> June 2008	National Seminar on Advances in Management and Diseases of wild animals	AMDWA and Department of Preventive medicine, Vety. College, KVAFSU, Hebbal, Bangalore
19	Dr. H.A.Upendra	Bangalore 27.6.08	Recent trends in control of animal diseases with special reference to vaccine and Diagnostics	KVAFSU and IAH&VB
20	M. Narayana Bhat, P.T. Ramesh and M.C. Anil Kumar Leena, G	Bangalore 7.8.2008	International Conference	Veterinary College, KVAFSU, Hebbal, Bangalore.
21	Dr.Shrikrishna Isloor	Izatnagar, Bareilly, 11 <sup>th</sup> to 12 <sup>th</sup> Aug, 2008	Stakeholder's workshop of NAIP	NAIP, ICAR
22	Dr.N.B.Shridhar	Hyderabad, 19.08. 2008 to 28.08.2008.	Participated in 10 day workshop on "Senior Programme on IT-based Decision Support Systems for Digital Content Management"	National Academy of Agricultural Research Management, Hyderabad
23	Dr R. Jayashree	Bangalore 4 <sup>th</sup> October 2008,	ಪಶುವಿಜ್ಞಾನ ಅಧ್ಯಯನ ಕೇಂದ್ರ ನಾಟಕ/ಲಘು ಪ್ರದರ್ಶನಗಳ ರಚನೆ", Workshop	Directorate of Extension, KVAFSU
24	M. C. Anil Kumar	Chennai 10/9/2008 to 30/9/2008	National Training programme on "Current concepts in Veterinary Emergency and critical care practice"	Madras Veterinary College, Chennai.
25	Dr. M. A. Kshama	Chennai 10.09.08 to 30.09.08	Current concepts in veterinary emergency and critical care practice	Madras Veterinary College
26	Dr.Placid E.D'souza	Bangalore 18.09.2008	Common bacterial and viral zoonotic diseases	Common bacterial and viral zoonotic diseases
27	Leena, G	Bangalore 18 <sup>th</sup> Sep 2008	Seminar on " Common Bacterial & Viral Zoonotic Diseases	Dept of Microbiology, Veterinary College, Hebbal, Bangalore
28	S.B.Prasanna	Izatnagar, Bareilly, Sept.r 10-20 <sup>th</sup> 2008	Nutritional strategies in green livestock Production	21 Days short course organized by CAS, Division of Animal Nutrition, IVRI, Izatnagar Bareilly, UP.
29	Dr.N.B.Shridhar	Kerala 30-10-08 to 01-11-08	IP and Technology Management with the Theme on Trademark Protection"	Central Tuber Crops Research Institute (CTCRI), Trivendrum.
30	Dr. D. Rathnamma	Bangalore. 04.11.08 to 24.11.08(21 days)	ICAR Winter school on "Harnessing Microbial Diversity for Use in Animal Nutrition"	NIANP, Adugodi, Bangalore
31	Dr. Deepti B. R.	Bangalore 10.11.08-30.11.08	Trends and perspectives in detection, identification and control of parasitic diseases.	CAS, Department of Parasitology, Veterinary College, Bangalore
32	Dr. T. Veena	Bijapur 7-9 <sup>th</sup> November 2008	National Women Science Congress	Swadeshi Vijnana Andolan-Karnataka & SB Arts & Science College Bijapur, Karnataka.
33	Dr L. Ranganath	Tamil Nadu 6 <sup>th</sup> & 8 <sup>th</sup> November 2008	Recent Advances in Large Animal Surgery	Indian Society for Veterinary Surgery Association - Veterinary College and research Institute Namakkal
34	Dr L. Ranganath	Mumbai 14 <sup>th</sup> & 15 <sup>th</sup> November 2008	Advances in Small Animal Surgery	Pet practitioner association of Mumbai



35	M. C. Anil Kumar	Bangalore 10.11.08 to 30/11/2008	National Training programme on "Trends and perspectives in the detection, identification and control of parasitic diseases"	Veterinary College, KVAFSU, Hebbal Bangalore.
36	Malathi. V.	Bangalore 04.11.08 to 24.11.08	ICAR sponsored winter school training on "Harnessing microbial diversity for use in Animal Nutrition".	National Institute of Animal Nutrition and Physiology, Adugodi, Bangalore-30
37	S.B.Prasanna	Bangkok, Thailand Aug.25 <sup>th</sup> to Dec. 6 <sup>th</sup> 2008.	Animal welfare Assessment AN 805-730.	3 months short course organized by WSPA, Asia, Bangkok, Thailand.
38	Dr. Phaniraja. K. L	Haryana. 16.01.09 To 05.02.09 (21 days)	Current concepts in Immuno diagnosis for Diagnosis of animal Diseases	ICAR Center of advanced studies, Dept of Microbiology Coll. Vety. Science, Hissar.
39	U. Krishnamoorthy	Chennai, 29.1.2009 to 31.1.2009	International Conference on Business Incubation- Agri-based business incubation strategies	TREC- STEP, REC Tiruchirapalli, Dept. of Science & Technology, Govt. of India
40	Dr. D. Rathamma	Bangalore 19.01.09 to 23.01.09 (5 days)	Workshop on "Capacity Building of Women Managers in Higher Education (Sensitivity / Awareness / Motivation)".	MLA College, Malleswaram, Bangalore
41	K.V. Jamuna	Bangalore 19-23, Jan, 2009	Capacity Building of Women Managers in Higher Education. Sensitivity / Awareness / Motivation Workshop	University Grants Commission- MLA College For Women, Malleswaram, Bangalore-12
42	Dr R. Jayashree	Bangalore 19 <sup>th</sup> to 23 <sup>rd</sup> Jan. 2009	Capacity building of women managers in higher education (Sensitivity / Awareness / Motivation) workshop	Maharani lakshmi Ammani College for Women & UGC
43	Y.B. Rajeshwari	Bangalore, 19 <sup>th</sup> 23 <sup>rd</sup> January 2009.	Capacity Building of Women Managers in Higher Education (Sensitivity / Awareness / Motivation ) Workshop.	Maharani lakshmi Ammani College for Women & UGC
44	M.C. Anil Kumar	Chennai, 19/2/2009 to 21/2/2009	International Summit on Advancing veterinary medical care challenges and strategies and 27 <sup>th</sup> ISVM convention satellite seminars on Veterinary Internal Medicine	Madras Veterinary College, Chennai.
45	Dr L. Ranganath Professor & Head	Kolkata 6 <sup>th</sup> - 8 <sup>th</sup> February 2009	Recent advances in Canine Health Care	Indian Society for Advancement of Canine Practice and Veterinary College, Kolkata
46	Dr.V.Chandrashekara Murthy	Calcutta, 08.Feb, 2009	Recent advances in canine health care	Indian society for advancement of canine Practice
47	Dr. Shrikrishna Isloor	Bangalore 24.02.09 to 16.03.09 (21 days)	New Generation Vaccines	IVRI, Hebbal, Bangalore
48	Dr. M.A. Kshama	Bangalore 2-22 March 2009	Emerging and reemerging parasitic diseases of veterinary and public health	CAS, Department of Parasitology, Veterinary College, Bangalore
49	Leena, G	Bangalore 2 <sup>nd</sup> to 22 <sup>nd</sup> Mar 09	Emerging and Re-emerging parasitic diseases of veterinary & public health importance	Department of Parasitology, Centre of Advanced Studies, Veterinary College, Hebbal, Bangalore



50	Leena, G	Bangalore Mar 2009	Global Health-India	Academic Health Center, University of Minnesota, Minneapolis, Minnesota, USA and St. John's Medical College, Bangalore, Karnataka
<b>Veterinary College, Bidar</b>				
51	Dr.G.S.Naveen Kumar	N.D.R.I. Karnal 25-03-08 to 14-04-08	Assisted reproductive and managerial technologies for genetic improvement of Livestock	ICAR, NDRI
52	Dr. M.D.Suranagi	ANGRA Univ. Tirupati 24-26 <sup>th</sup> Nov 08	62 <sup>nd</sup> Annual conference of the Indian Society of Agricultural Statistics	ISAS
53	Dr. M.M. Appannavar	Kathamandu, Nepal 16-18 <sup>th</sup> Feb 2009	ILRI-SLU-FAO Capacity building for sustainable use of ANGr Follow up Workshop	ILRI, SLU Sweden, FAO
54	Dr.B.V. Shivaprakash	Namakkal, 6 <sup>th</sup> -8 <sup>th</sup> Nov 2008	32 <sup>nd</sup> National symposium of Indian Society for Veterinary Surgery	Dept.of Surgery TANUVAS
55	Dr.D.Dilipkumar	Namakkal, 6 <sup>th</sup> -8 <sup>th</sup> Nov 2008	32 <sup>nd</sup> National symposium of Indian Society for Veterinary Surgery	Dept.of Surgery TANUVAS
56	VijayKumar.M	Veterinary College, Chennai, Tamilnadu 5-11-2008 to 25-11-2008	Updates in veterinary Internal medicine	Dept of Veterinary Clinical Medicine, Veterinary College, Chennai
57	VijayKumar.M	Indian Institute of Information technology, Allahabad Dec.15 <sup>th</sup> to 21 <sup>st</sup> 2008	Science conclave: A congregation of nobel prize winners.	IIT, Allahabad Ministry of HRD and Ministry of science and technology, GOI
58	Sunilchandra.U	IVRI, Izatnagar, Baireilly,Uttarpradesh 3-12-2008 to 23-12-2008	Recent developments in animal production and reproduction.	Dept of Physiology and Climatology, IVRI
59	Dr R B Dhabale Dr M K Tandle Dr S D Sonwane Dr R G Bijurkar and Dr M S Dodamani	Bangalore, 11-13 Dec 2009	National symposium on Recent trends for Improved reproduction of livestock, companion and wild animals	Veterinary College, Hebbal, Bangalore The Dept of ARGO,
60	Dr R B Dhabale Dr M K Tandle Dr S D Sonwane Dr R G Bijurkar and Dr M S Dodamani	Bidar, 13.11.2008	Global scenario in veterinary profession by Dr Pampapati	Veterinary College, Bidar
61	Dr.Mahesh Dodamani	Veterinary College, Bidar, 28 May to 2 June 2008	Faculty development Programme on educational methodology and instructional technology	NAARM, Hyderabad
62	Dr.Mahesh Dodamani	Trivendrum, 30 Oct to 1 Nov. 2008	ICAR training cum workshop on intellectual property and technology management	CTERI, Trivendrum Centre of advanced studies, Dept. of Parasitology Vety, College, Bangalore
63	Dr.P.M.Thimmareddy	Bangalore 06.03.09	Dermatological diseases of small animals	Department of Veterinary Microbiology, Haryana Agricultural University
64	Pradeep Kumar	Hissar, Sept 25 <sup>th</sup> to Oct 15 <sup>th</sup> 2008	Phage display technology for production of single domain antibodies	Department of Veterinary Microbiology, Haryana Agricultural University
65	Pradeep Kumar	Bangalore 16 <sup>th</sup> to 20 <sup>th</sup> March 2009	Global Health India 2009	Minnesota University, USA



66	Pradeep Kumar	Bidar Veterinary College	Educational Methodologies and Instructional Technology	NAARM, Hyderabad
67	Dr.K.C. Veeranna	Tumakur,12-07-2009	Goat farming as an income generation activity for women SHG members	BAIF & Dept. of A.H. & V.S.
68	Dr.K.C. Veeranna	Bangalore, 23-09-2008	Livestock based livelihoods for SHG members	Bangalore University, Bangalore
69	Dr. Shivakumar K.Radder	Veterinary College, Hebbal, Bangalore 04-10-2008	Work Shop-I on Preparation of Script for Skits on Animal Husbandry	Dept. of Vety. & A.H. Extension, Veterinary College, Shimoga.
70	Dr.K.C. Veeranna	Veterinary College, Hebbal, Bangalore 05-12-2008 to 06-12-2008	Work Shop-II on Preparation of script for Skits on Animal Husbandry	Dept. of Vety. & A.H. Extension, Veterinary College, Shimoga.
71	Dr. Shivakumar K.Radder	Veterinary College, Bhubaneshwar, 17 to 20- 12-2008	National Seminar on Livestock Development and Extesnion	Indian veterinary extension forum and Orissa Agrlculural University
72	Dr.K.C. Veeranna	Lucknow, 21 to 26 12-2008	Training on Leadership management in NAIP project	IIM Lucknow
73	Dr.K.C. Veeranna	Hyderabad, 28 to 29-01- 2009	Workshop on procurement and financial management	NAARM, Hyderabad
74	Dr.K.C. Veeranna	New Delhi, 13-03-2009	Review workshop by DBT Task Formce Committee	DBT, New Delhi
75	Dr. Shrikant Kulkarni	College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana 26.02.2009 to 28.02.2009	Immunological and Molecular Techniques for Diagnosis of Infectious Diseases of Domestic Animals and Poultry	Indian Council of Agricultural Research, New Delhi
76	Dr. Shrikant Kulkarni	National Institute of Animal Nutrition and Physiology, Bangalore 26.02.2009 to 28.02.2009	Physiogenomic Prospects in Augmenting Livestock Production	Society of Animal Physiologists of India
77	Dr. A.M.Kotresh	NAARM, Hyderabad, 19-8-2008 to 28-8-2008	IT based decision support systems for Digital Content Management	NAARM, Hyderabad
78	Dr. A.M.Kotresh	IVRI, Izatnagar, 3-12-2008 to 23-12-2008	Recent Developments in Production and Reproduction in farm animals	IVRI, Izatnagar,
79	Dr. K.M. Gadre	Veterinary college, Bidar,13-11-2008	Disaster management	Veterinary College, Bidar.
80	Dr. Ashok Pawar.	Veterinary college, Bidar,13-11-2008	Global scenario of veterinary education	Veterinary College, Bidar.
81	Dr. K. Ganesh Udupa and Dr. Sandeep H.	Veterinary College, Bidar from 28-05-08 to 02-06-08	Faculty development programme on Education methodology and Instructional technology	NAARM, Rajendranagar, Hyderabad
82	Dr. Sandeep H.	Madras Veterinary College, Chennai from 10-09-08 to 30-09-08	National training programme on "Current concepts in Veterinary emergency and critical care practice"	Dept. of Clinical Veterinary Medicine, MVC, Chennai
83	Dr. K. Ganesh Udupa and Dr. Sandeep H.	Madras Veterinary College Chennai from	International summit on Advancing Veterinary medical care challenges	Indian Society for Veterinary Medicine



<b>Dairy Science College, Hebbal, Bangalore</b>				
99	Dr.H.Manjunatha	Dindigul, TN 3-23 Nov. 2008	Recent trends in quality assurance and management in food and dairy industries	Faculty of Agril. & Animal Husbandry, Gandhigrama Rural University, Gandhigram, Dindigul, TN.
100	Dr.R.Prabha	Bangalore	Women Managers Training the Trainees 5-11 Feb 2009	UGC & Ammanl College, Malleswaram, Bangalore.
101	- do -	Bangalore	Global Health 16-20 March 2009	St.Johns Medical College & Minnesota University, USA.
102	Mr. Ramachandra, B.	Bangalore 15.11.09	Seminar on Bakery Technology	AFST
103	- do -	Bangalore	Presentation on Biopreservatives	AFST
104	- do -	Mysore	International Food Convention	CFTRI, Mysore
105	- do -	Mysore 29.12.08 to 2.1.09	Short term course on over of microbiology with emphasis on academic requirements	CFTRI, Mysore
106	Mr. Ramachandra, B.	Bangalore 28.3.09	Presentation on application of natural flavours	AFST
107	H.M. Jayaprakasha	CTCRI, Tiruvanthapuram Kerala, 30-10-2008 to 01-11-2009	IPR Technology and Management	ICAR, New- Delhi
<b>Livestock Research &amp; Information Center, Nagamangala</b>				
108	Dr.P.Mohan	Indian Society for study of Animal Reproduction (Karnataka Chapter), Veterinary College, Hebbal, Bangalore on 7 <sup>th</sup> , March, 2009,	V <sup>th</sup> State Level Annual conference on "Practical approaches to infertility in livestock & companion animals"	Organized by Department of ARGO.
109	Dr.P.Mohan	24 <sup>th</sup> Annual Convocation of the Indian Society for study of Animal Reproduction on 11, 13 <sup>th</sup> , Dec, 2008	National Symposium on "Recent trends and future & strategies for improved reproduction of livestock, companion and wild animal".	
<b>Fisheries Research &amp; Information Center, Ankola</b>				
110	Dr.S.N. Sathyanarayanappa	Hotel Surya, Ankola, 19th February 2009	Prospects of Shrimp Farming Uttara kannada	C.P. Feeds Pvt. Ltd.
111	Dr.Lakshmipathi M.T.	Hotel Surya, Ankola, 19th February 2009	Prospects of Shrimp Farming at Uttara kannada	C.P. Feeds Pvt. Ltd.

### 5. Radio Talk / TV Programmes

Sl. No.	Name of the Scientist	Topic	Date and Broadcasting Station Institute
<b>Veterinary College, Hebbal, Bangalore</b>			
1	Y.B.Rajeshwari	Rabbit rearing-A profitable enterprise.	Akashvani Bangalore, 15.5.08
2	Y.B.Rajeshwari	Rabbit rearing-A profitable enterprise.	Chandana TV, 13.6.08
3	S.B. Prasanna	Housing and management of pigs.	All India Radio Bangalore, 28/06/2008
4	H.N.N. Murthy	Phone-In programme on "Koli Saakane"	20.10.2008 Chandana, DDI, Bangalore
5	U. Krishnamoorthy	Management of cattle in winter	19.11.2008 at 6:00 PM In Krishi Darshana live phone in programme-Chandana TV.
6	Dr. S.Yathiraj Dr. H.A.Upendra Dr. K.Satyanarayan	Lunch box programme of FM Radio in connection with Golden Jubilee Celebration of the college and Pashu Mela of KVAFSU	AIR, Bangalore on 21.11.2008
7	Dr. S.Yathiraj Dr. K.Chandrapal Singh Dr. K.Satyanarayan	Jaanuvaaru, Kukkuta and Mathsya Mela	Krishiranga Programme, on 12.2.2009 at 6.50 PM, AIR, Bangalore
8	K. Venkata Reddy	ಗ್ರಾಮೀಣ ರೈತರಿಗೆ ಸ್ವರ್ಣಧಾರ ಕೋಳಿಯ ಉಪಯುಕ್ತತೆ	27.02.2009 ಅನ್ನದಾತ ETV Kannada
9	S.B. Prasanna	Sheep rearing for mutton production.	All India Radio Bangalore, 19/3/09
10	Dr. S. Yathiraj	Management of livestock in Summer	Doordarshan, Chandana
11	Dr. H.A.Upendra	Mastitis and its control	AIR, Bangalore
12	Dr. H.A.Upendra	Rabies and its control	AIR, Bangalore
13	Dr. H.A.Upendra	Animal disease control tips	AIR, Bangalore
14	Dr. H.A.Upendra	Zoonotic Diseases	AIR, Bangalore
15	Dr. H.A.Upendra	Mastitis and its control	Udaya TV, Bangalore
16	Dr. Muralidhara.A.	Mastitis prevention and control	AIR, Bangalore
<b>Veterinary College, Bidar</b>			
17	Dr.R.B. Dhabale	Deoni Breeding bulls	Kasturi Kanada TV Channel Programme on 17/6/2008
18	Dr. K.C. Veeranna	Live phone in programme on goat rearing	21-10-2008, DD Gulbarga
19	Dr. K.C. Veeranna	Live phone in programme on fodder cultivation	29-01-9 DD Gulbarga
<b>Veterinary College, Shimoga</b>			
20	Dr. Rudresh, B.H.	Profitable broiler farming	06-11-08, AIR, Bhadravathi
21	Dr. V. Nagabhushana	Fodder Cultivation	07.11.08, AIR, Bhadravathi
22	Dr. Manjunatha, L	Sheep rearing - a profitable venture	11-11-08, AIR, Bhadravathi
23	Dr. Ganga Naik, S	Summer Management of Cattle	11.02.09, AIR, Bhadravathi
<b>Fisheries Research &amp; Information Center, Ankola</b>			
24	Dr.S.N.Sathyanarayanappa	"Eco-friendly & Sustainable Shrimp Farming"	25.3.2009, AIR, Karwar
25	Dr.Lakshmipathi M.T.	"Eco-friendly & Sustainable Shrimp Farming"	25.3.2009, AIR, Karwar
26	Mr.Manjappa N.	"Culture of Commercial Important Brackish water Fishes."	25.3.2009, AIR, Karwar
<b>Directorate of Extension, KVAFSU, BIDAR</b>			
27	Prof.H.Shivananda Murthy	Live phohe-in-programme on Extension Education programmes of KVAFSU	25-09-2008, Doordarshan, Bangalore
28	- do -	Freshwater fish farming	15-12-2008, Doordarshan, Bangalore
29	- do -	Freshwater prawn farming	20-02-2009, Doordarshan, Bangalore
30	- do -	Extension education programmes of KVAFSU	16-03-2009, AIR, Karwar



### 6. Animal Health Camps / Livestock / Fish Shows

Sl. No.	Name of the College/Station	No. of Health Camps / Livestock / Fish shows organised	No. of Cases Treated / Advised
1	Veterinary College, Hebbal, Bangalore	52	8,681 cases
2	Veterinary College, Bidar	26	13,942 cases
3	Veterinary College, Shimoga	02	415 cases
4	Dairy Science College, Hebbal, Bangalore	01	100 cases
5	LRIC (Deoni), Hallikhed	01	70 cases
6	LRIC, Konehally, Tiptur	04	1,190 cases

### 7. Demonstrations/Exhibitions/Field Days

Sl. No.	Place & Date	Name of Scientists	Event	Remarks
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Veterinary College, Bangalore, 28 <sup>th</sup> Nov, 2008	All Staff Members	Dog show	All staff members served in the organizing Dog Show and running an emergency clinic
2	Bangalore 3.1.09-10.1.09 emergency clinic.	All Staff Members	All India Police Duty Meet	All staff members attended the event on different days and were in charge of the
3	Shimoga	Dr. S. Yathiraj Shimoga	Dog show organized by the Sahyadri Kennel Club and KVA,	Judge for the dog show
4	Hadonahalli Dodda-ballapur Taluk 27-2-09	R. Bhaskaran	RDWE Programme of Dairy Science College	
5	Provided Giriraja, Swarnadhara and parents of coloured broilers on 31.10.2008 for exhibition at Anekal, organized by Department of Animal Husbandry and Veterinary services.			
<b>Veterinary College, Bidar</b>				
6	Veterinary College, Bidar, 27.7.2008	Dr. R. B. Dhabale	Fodder plot demonstration to the farmers of Backchodi Village	
7	UAS, Dharwad, 04 to 06-10-2008	Dr. K.C. Veeranna	Krishi Mela	
8	Bidar Utsava, 07 to 08-02-2009	Dr. K.C. Veeranna	Bidar Utsava	
9	Bidar fort, 8-2-2009	Dr. Ashok Pawar	Pashumela In	Scheme bullocks were participated.
<b>Dairy Science College, Hebbal, Bangalore</b>				
10	21 & 22 Feb 2009 Hebbal Bangalore	Dr. H. Manjunatha Dr. R. Prabha Mr. B. Ramachandra	Januvaru Matsya & Kukkuta Mela	Assisted in registration, and worked as resource persons
11	21 to 22-02-2009 Hebbal, Bangalore	Mr. G. Mahesh Kumar Dr. H.M. Jayaprakasha	- do -	Exhibited Milk and Milk Processing equipments.
12	Bangalore - 2008	Dr. E. Narayanappa	Biotech at Peenya, Bangalore	
13	23 to 27 Jan 2009	Dr. E. Narayanappa Mr. T. Suresh	Krishi Mela at JSS, Suttur, Mysore Dist.	
14	21 & 22 Feb 2009 Hebbal, Bangalore.	Dr. E. Narayanappa Mr. T. Suresh	Januvaru, Kukkuta and Matsya Mela	
15	13 to 15 Feb 2009 Mangalore	Mr. T. Suresh	Matsya Mela	

16	21 & 22 Feb. 2009 Hebbal, Bangalore	Staff of Department of Dairy Economics & Business Management	Januvaru, Kukkata and Matsya Mela	Participated as resource personnel
<b>Extension Education Wing, Directorate of Extension, Mangalore Campus</b>				
17	<i>Fish Farmers' Day celebrated</i> Fish Farmer's Day was celebrated on 10 <sup>th</sup> July, 2008. Thirty farmers were participated on the occasion. A seminar on "Diversified methods of aquaculture" was also held on the occasion.			
18	<i>Field demonstration of New Machine</i> Organized a demonstration cum awareness camp on cycle pedal operated ice crushing machine and a scientifically designed fish vending table in collaboration with Agricultural Engineering College, Raichur held at Bunder Jetty on 7 <sup>th</sup> November 2008.			
19	<i>Field demonstration on cleanliness and hygiene at Mangalore</i> The EEW had organized a Field demonstration cum awareness on "Cleanliness and Hygiene to fisher folk" at Bunder Jetty, Mangalore on 17 <sup>th</sup> November, 2008 in collaboration with Lioness and Lions Club, Mangaladevi. The staff gave a demonstration of how to maintain cleanliness and hygiene to the fishermen at Bunder Jetty. Large number of fishermen, Press and electronic media were present. In view of the visit of EC inspectors to the landing centre, the camp assumed importance.			
20	<i>Demonstration cum awareness camp on cycle pedal operated ice crushing machine and a scientifically designed fish vending table</i> Organized a demonstration cum awareness camp on cycle pedal. operated ice crushing machine and a scientifically designed fish vending table in collaboration with Agricultural Engineering College, Raichur held at Central Fish Market (near State Bank) on 11.12.2008.			
21	<i>Demonstration on preparation of Fish and Fruits value added products</i> Organized a demonstration on preparation of Fish and Fruits value added products in collaboration with KVK, Mangalore held at Panaje, D.K. on 17.12.2008.			
22	<i>State Level Animal Husbandry Mela "Surabhi-08" at Nileshwara, Kasaragod</i> Participated in the State Level Animal Husbandry Mela "Surabhi-08" at Nileshwara, Kasaragod, Kerala on 20 <sup>th</sup> ~ 22 <sup>nd</sup> December 2008.			
23	<i>Demonstration on preparation of Fish value added products</i> Organized a demonstration on preparation of Fish value added products in collaboration with Corporation Bank, Mangalore held at Thota Bengre, Mangalore on 21.01.2009			
24	<i>Mathsyamela - 2008-09</i> Involved in organizing the Mathsyamela - 2008-09 in collaboration with National Fisheries Development Board, Hyderabad held at Nehru Maidan, Mangalore on 13 <sup>th</sup> - 15 <sup>th</sup> February 2009.			
25	<i>Januvaru, Kukkata and Mathsyamela - 2008-09</i> Participated actively in the Januvaru, Kukkata and Mathsyamela - 2008-09 at Bangalore on 21-22 February, 2009 and arranged a stall.			
26	<i>State level Women Farmers Technical meet at Dharmasthala</i> Participated in the "Krishimela" (Women Farmers Technical meet) organized by Agriculture Department held at Dharmasthala on 27 and 28 February, 2009, with a stall.			
27	<i>Recent advances in Fish and shrimp farming and value addition of fish products</i> Organized a training programme on "Recent advances in Fish and shrimp farming and value addition of fish products" during 19 <sup>th</sup> - 20 <sup>th</sup> March, 2009 in College of Fisheries, Mangalore for KVK & State Department Officials.			
28	<i>Nagathihalli Cultural Festival</i> Participated in Nagathihalli Cultural Festival and established an exhibition stall on Fisheries in collaboration with the Fisheries Research and Information Centre (I), Hebbal, Bangalore on 27 <sup>th</sup> - 30 <sup>th</sup> March, 2009 and consaltancy given to the farmers about scope of fish culture, fish seed rearing, ornamental fish culture and value added fish products. More than fifty farmers were participated in the programme.			



Veterinary College, Hebbal, Bangalore				
29	Veterinary College 20 <sup>th</sup> and 21 <sup>st</sup> February 2008	Director and all the Scientists of I.A.H & V.B, Hebbal, Bangalore - 24	Pashu mela organized by KVAFSU.	The vaccines produced in the Institute both viral and bacterial vaccines were exhibited for the people and the information regarding the diseases of the animals was also provided
Livestock Research & Information Center, Nagamangala				
30	15.07.2008	Dr. Mohan. P Dr. Naveen Kumar.S	Exhibition to know various fodder varieties available with us	10 Farmers benefited
Livestock Research & Information Center, Konehalli, Tiptur				
31	Bangalore, 04-11-2008	Dr. A. Murugeppa	Krishimela	Attended as a resource person for given a technical advise to dairy farmers regarding profitable dairy
32	Bangalore 21-22 <sup>nd</sup> Feb., 2009 calf rearing	Dr. A. Murugeppa	Januvaru, Kukkata & Matsyamela	Given a technical advise to dairy farmers regarding profitable dairy & on
Fisheries Research & Information Center, Hesaraghatta				
33	FRIC, Hesaraghatta on 10-07-2008	Dr. K. V. Mohire Dr. G.Y.Keshavappa	Organized fish farmers day	About 60 farmers attended and DE, KVAFSU, Bidar inaugurated the function.
34	FRIC, Hesaraghatta on 07-09-2008	Dr. K. V. Mohire	Organized Vanamahothsava	Hon'ble Vice-Chancellor, KVAFSU, Bidar & Hon'ble Member of Board of Management Dr. Gopal Gowda participated in the function

#### 8. Animal Health Care Services to Farmers

Sl No	Department	Total No. of cases treated					Total
		Cattle & Buffaloes	Sheep & Goats	Dog	Fish & Prawn	Others	
Veterinary College, Hebbal, Bangalore							
1	Dept. of CVM	1821	--	23036	--	1496	26353
2	Dept. of VSR	197	197	5391	--	679	6464
3	Dept. of ARGO	690	68	1868	--	--	2626
4	Dept. of Teaching Veterinary Clinical Service Complex						7202
		Sl.No.	Particulars	Bovine	Canine	Others	Total
		1	Medicine	1268	2499	505	4272
		2	Surgery	306	332	120	758
		3	Gynaecology	802	25	68	895
		4	Vaccination	390	407	380	1177
		5	Dehorning	46	--	--	46
		6	Castration	--	--	54	54
		Total	2812	3263	1127	7202	
		IV B.V.Sc & AH Students/Internees were given training in diagnosis and treatment various disease in animals and given them the opportunity to interact with livestock owners regarding management and husbandry activities.					
5	Dept. of Pharmacology & Toxicology	In Sirsi of Uttara Kannada district, importance of artificial induction of lactation in repeat breeding animals is narrated.					
6	Dept. of Veterinary Parasitology	Basic training on parasites and their management was provided to 20 batches of farmers from different villages of Chikkaballapur district under the Sujala Water Shed Project.					



12	VCM and VEPM	Blood, Feces, Skin Scrapings, Milk, Rumen fluid, Urine and Other samples were analyzed	201
13	Parasitology	Clinical samples like blood, feces, skin scraping etc	205
14	Microbiology	Clinical samples like sera for screening and antibiotic sensitivity tests; isolation and characterization of field samples	220
15	Animal Nutrition	Feed Analysis	05
<b>Veterinary College, Shimoga</b>			
16	Animal Nutrition	Reproductive problems in lab animal house of Dept. of Health, Shimoga, Diagnostic lab for KFD	10
17	Veterinary Pathology	Disease in poultry to poultry farmers in few farms around Shimoga	16
<b>Veterinary College, Hassan</b>			
18	Dr.M.S.Vasanth visited Bannerghatta Biological park, Bangalore on several occasions for consultations and surgery on captive wild animals		
19	Dr. M.S.Vasanth visited Pilikula Biological Park, Mangalore to conduct microchip implantation in king cobra on 16-07-2008.		
20	Dr. M.S.Vasanth visited Pilikula Biological Park, Mangalore to conduct microchip implantation in tiger on 23.06.2008.		
21	Dr. M.S.Vasanth, has done bull surgery at Livestock Research and Information Centre, Nagamangala on 10.12.2008.		
<b>Institute of Animal Health &amp; Veterinary Biologicals, Bangalore</b>			
22	Disease Investigation (LA)		4196
23	Disease Investigation (Poultry)		4021
24	Diagnostic Parasitology		1277
25	Diagnostic Bacteriology and Mycology		42563
26	Diagnostic Virology		836
27	Sero epidemiology		3481
28	Biochemistry and Toxicology		1298
29	Foot and Mouth Disease Section		4987
30	Regional Animal Disease Diagnostic Lab, Belgaum		6501
31	Regional Animal Disease Diagnostic Lab, Bellary		3867
32	Regional Animal Disease Diagnostic Lab, Gulbarga		2571
33	Regional Animal Disease Diagnostic Lab, Davangere		4012
34	Regional Animal Disease Diagnostic Lab, Mangalore		1484
35	Regional Animal Disease Diagnostic Lab, Mysore		5961
36	Regional Animal Disease Diagnostic Lab, Shivamogga		963
37	Regional Animal Disease Diagnostic Lab, Bidar		967
38	WADDI, Bannerghatta National Park, Bannerghatta		1337



Veterinary College, Bidar							
7	Dept. Surgery & Radiology	1300	329	146	--	25	1780
8	Dept of VCM	5	-	-	-	-	5
9	Dept of ARGO	680	82	4	-	2	768
Veterinary College, Hassan							
10	Referred cases by the field veterinarians to Veterinary College, Hassan were attended at the farmers premises in and around Hassan.						

### 9. Diagnostic Services Provided

Sl No	Department	Diagnostic service	Total No.
Veterinary College, Hebbal, Bangalore			
1	Dept. of Anatomy & Histology	Medico-legal identification of skin and other organs of dead wild animals	28
2	Dept. of Epidemiology & Preventive Medicine	Antibiotic Sensitivity test	20
3	Dept. of Veterinary Biochemistry	Assay of biochemical parameters	220
4	Dept. of Veterinary Pathology	Post mortem of Canine, Bovine, Equine, Feline, Sheep & Goat, Pigs & Lab animals, Poultry etc.,	4904
5	Dept. of Veterinary Surgery & Radiology	Radiography	1064
6	Dept. Of Pharmacology & Toxicology	Regular screening of samples received from field veterinarians are screened for the presence of pesticides and plant toxins	34
7	Dept. of Veterinary Microbiology	Antibiotic Sensitivity test (ABST) for clinical samples / bacterial cultures, Isolation and Identification of bacterial/fungal pathogens from the clinical samples, Screening of blood /tissue impression smears for bacterial/fungal pathogens, Screening of blood/serum/milk samples for Animal Brucellosis, Screening of human blood /serum samples for Brucellosis and Counseling Veterinarians/livestock Inspectors/Animal owners/Animal attendants about the disease & control, Screening of cattle for Bovine Tuberculosis by Tuberculin test, Screening of blood / serum samples for bovine, ovine and Avian Mycoplasma infections and FMD Investigation at Haniyur village- samples collected for processing.	135
8	Dept. Of Veterinary Parasitology	Biting fly problem in Cattle and Buffaloes at KMF, Nandini Sperm Station, Hessarghatta and blood sample, fecal and skin scraping, insects, ticks maggots and worm segment were identified and analyzed	51
9	Dept. of CVM	ECG, Gastroscopic examination, Ophthalmoscopic examination, Blood samples, Urine samples, Fecal samples, Lymph node aspirates and Rumen fluid.	1112 1289
10	Dept. of ARGO	Ultrasonography and Vaginal exfoliative cytology	
Veterinary College, Bidar			
11	Dept. Surgery & Radiology, Vety. Col, Bidar	X-ray Services	

**10. Supply of Chicks / Animals / Fish / Fodder Seeds / Root Slips / Other Farm Produce to Farmers**

Sl No	Department Farm	Supplied Item	Supplied Quantity	Remarks (Amount in Rs.)
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Poultry Science	Day old chicks	107899+1972	10,98,157.50
2	- do -	Day old parent chicks	4550+90	2,46,500.00
3	- do -	Hatching eggs	52725	2,53,118.00
4	- do -	Table eggs	20786	35,314.50
5	- do -	Broken eggs	1438	1,716.00
6	- do -	Feed	167 kgs	2,749.00
7	- do -	Manure	1.5 tons	225.00
8	- do -	Birds	5750	6,51,317.00
9	- do -	Paddy husk	255 kgs	765.00
10	- do -	Gunny bags	-	9,018.00
11	AICRP on Poultry	Day old chicks	36172+602	3,67,795.00
12	- do -	Hatching eggs	28170+840	1,68,093.00
13	- do -	Table eggs	26089	40,529.50
14	- do -	Broken eggs	745	862.5
15	- do -	Birds	6390	7,16,270.50
16	- do -	Manure	7.5 tons	1,125.00
17	- do -	Gunny bags	-	7,419.00
18	Livestock Production & Management	Piglets	256	2,90,320
19	- do -	Sheep	36	65,665
20	- do -	Rabbits	140	19,100
21	- do -	Male Calves and Heifers	30	1,20,300
22	- do -	Cows	9	77,900
23	- do -	Buffaloes	4	42,400
24	- do -	Liquid milk	93,866.5 Kg	14,92,477
<b>Veterinary College, Bidar</b>				
25	Veterinary & AHE	Root slips, Co-3, 20,000		Under NAIP project for 29 beneficiaries
26	Animal Nutrition	2000 Kg Emu Feed during 2009		Supply to Deoni Farm (LRIC)
27	- do -	4000 Kg to DBT goat farmers		Supply complete feed to goats
28	- do -	6 tonnes to ICAR scheme bullocks		Supply of concentrate mixture
<b>Dairy Science College, Hebbal, Bangalore</b>				
29	Dept. of Livestock Production & Management	Piglets		Four
30	Dept. of Livestock Production & Management	Ram		One
31	FRIC, Hebbal	Fingerings		2500
32	Dept. of Poultry Science	Giriraja Birds		150
33	Veterinary College, Bangalore	Rabbit		Four
<b>Institute of Animal Health &amp; Veterinary Biologicals, Bangalore</b>				
34	IAH & VB, Bangalore	Black quarter vaccine	11.21	11.21
35	- do -	Haemorrhagic Septicaemia vaccine	49	49



36	- do -	Enterotoxaemia vaccine	79.03	79.03
37	- do -	Anthrax vaccine	2.24	3.335
38	- do -	Ranikhet 'F' vaccine	4.62	1.143
39	- do -	RD R2B vaccine	69.51	17.408
40	- do -	B. abortus Plain Antigen	0.055	0.055
41	- do -	B. abortus Rose Bengal Antigen	0.0165	0.134
42	- do -	Sheep Pox Vaccine	10.59	10.59
43	- do -	Tissue Culture Rabies Vaccine	0.728	10.192
44	- do -	Salmonella pullorum Coloured Antigen	0.388	3.106
45	- do -	PPR vaccine	69.05	69.05
<b>Livestock Research &amp; Information Center (Deoni), Hallikhed</b>				
46	LRIC, Hallikhed	Milk		35,297.00
47	- do -	Hybrid Napier Root slips 91,074.00		27,322.00
48	- do -	Jawor produced from Rabi for year 07-08 Sold to local farmers office Culling APMC rate @ Rs.9 Per Kg		21,510.00
49	- do -	Jawor produced from Rabi for year 08-09 Sold to local farmers office Culling APMC rate @ Rs. 12 Per Kg		26,400.00
50	- do -	Turkey Birds 7		1400.00
51	- do -	Fodder		12,000.00
<b>Livestock Research &amp; Information Center, Nagamangala</b>				
53	LRIC, Nagamangala	10 farmers around our farm received root slipsNapier grass root slips supplied.		
<b>Fisheries Research &amp; Information Center, Hesaraghatta</b>				
54	FRIC, Hesaraghatta	Fish seed (Cultivable) Catla, Rohu, Ammur & Common Carp	73,964	Rs. 28,828-00
55	- do -	Ornamental fish Gold fish, mollies, platies, Red Swordtail, Green Swordtail, Gouaramies & Guppies etc	50,872	Rs.1,71,927-00
56	- do -	Coconuts	653	Rs. 2,988-00
57	- do -	Jack fruit	72	Rs. 279-00
58	- do -	Misc. (Grass, unserviceable articles, old news paper, firewood etc.,	-	Rs.6 ,612-00

### 11. Consultancy / Advisory Services

Sl. No.	College / Institute / Center	Total Number	Remarks
1	Veterinary College, Hebbal, Bangalore	63	Consultancy services in poultry farming, dairy, rabbit, sheep, goat, piggery, emu, quails, fish farming, vaccination, disease diagnosis etc was provided
2	Veterinary College, Bidar	18	
3	Veterinary College, Shimoga	10	
4	Veterinary College, Hassan	1	
5	Dairy Science College, Hebbal, Bangalore	1	
6	Institute of Animal Health & Veterinary Biologicals, Bangalore	12	
7	Livestock Research & Information Center, Nagamangala	2	
8	Livestock Research & Information Center, Konehalli, Tiptur	4	
9	Fisheries Research & Information Center, Hesaraghatta	1	

## 12. Activities on Village / Farm Adoption

### Veterinary College, Hebbal, Bangalore

Activities in the adopted village of Haniyuru, Bangalore North Taluk

1. Health camps
2. Fertility camps
3. Poultry bird distribution
4. Sheep distribution
5. Fish fingerlings distribution
6. Advisory services

Sl. No.	Date	Place	Organised/Participated	Total Participants
1	10/7/2008	Haniyuru	Vaccination Camp against Anthrax	150 cases
2	22/8/2008	Haniyuru	Two Bannur rams distributed	
3	5th Nov.2008	Chellahalli village & Haniyuru village	Health camp	200 cases
4	15 <sup>th</sup> Nov.2008	Chellahalli village & Haniyuru village	Health camp	15 cases
5	Feb 5 <sup>th</sup> , 2009	Haniyuru village & Haniyuru village	Distribution of Giriraja birds	330 birds

### Veterinary College, Bidar

Veterinary College and Extension Education Wing, Bidar jointly adopted Kadwad village of Bidar district for over all development for a period of 3 years. Training programmes, animal health camps, field days, demonstrations, farmers-scientists interaction sessions and other out reach activities are frequently organized in the village for the socio-economic development of rural people.

Ramtheare Farm, Bidar was adopted by the University and technical know how was disseminated in various aspects of dairy farming. Faculty of the Veterinary College, Bidar and Directorate of Extension visited periodically. Bethany farm, Bidar was being regularly visited for health care of thirty five cross bred and Deoni animals by Dr. B.V. Shivaprakash.

### Veterinary College, Hassan

World Rabies Day was organized by the Veterinary College, Hassan jointly with Department of AH & VS,

Hassan, Common Wealth Veterinary Association, Bangalore and Lions Club, Hassan on 28.09.2008 at Mylanahalli Village. A Rabies awareness Jatha (road show) was organized from Veterinary College campus to Mylanahalli and simultaneously at College campus and at Mylanahalli. 142 pet and stray dogs were vaccinated with Anti-Rabies Vaccine

### Extension Education Wing, Mangalore Campus

The preliminary Information on socioeconomic status, community organizations, and potential for community participation was assessed and based on the reports it was decided to select Sasihithlu, for Village Adoption Scheme of the KVAFSU for over all development in collaboration with other line departments, NETFISH (MPEDA) and community based organizations.

### Fisheries Research & Information Center, Hesaraghatta

Supplied cultivable fish to 4 farmers for fish culture in irrigation ponds



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9. M.C. Anil Kumar. Januvarugala rogalalu hagu haitoti kramagalu. July, 2008. Annadata, issue page 6.
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13. G.P. Kalmath, M.C. Anil Kumar and Hemanna Gowda. Karugala palana vidhana. December, 2008. Annadata, issue Page 44-45.
14. G.C. Nirmala, B.R. Suchitra, M.C. Anil Kumar and H.S. Kavya. 2009. Hasiru Mevininda Rasamevu tayarisivike. January, 2009. Annadata, issue Page 55-61.
15. G.P. Kalmath, M.C. Anil Kumar, B.R. Suchitra and Hemannagowda. Herige Nantara Hainurasugala Palane. February, 2009. Annadata, issue page 51-52.
16. K. Venkatareddy, B. Umakantha and Jayanaik. ಮಾಂಸದ ಕೋಳಿ ಸಾಕಣೆ ಆಧುನಿಕ ಪದ್ಧತಿಗಳು. June, 2008. ಕನ್ನಡ ಅಧ್ಯಯನ ವಿಭಾಗ, ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
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#### 14. Distinguished Visitors to University Campuses

Sl No	Name, Designation & Institute	Date	Purpose
<b>Veterinary College, Hebbal, Bangalore</b>			
1	Prof. M.M.Chengappa, Head of Department of Pathobiology, Kansas State University, USA.	7 <sup>th</sup> August, 2008	Participated and delivered a talk during the International Conference
2	Dr. P.H. Robinson, Department of Animal Science, University of California, Davis, USA	17 <sup>th</sup> and 18 <sup>th</sup> August 2008	Visited Dept. of Animal Nutrition
3	Dr. Aravind. K.L., Product Manager, CP Feeds	27 <sup>th</sup> August, 2008	R&D chief of CP Feeds to see the research facilities in the Dept. of Microbiology
4	Dr. Aparna.A. Kolte, Asst. Manager, NABARD	28 <sup>th</sup> August, 2008	Research facilities in the Dept. Of Microbiology
5	John Barbara Foltz, Associate Dean, College of Agricultural & Life Sciences, University of Idaho, Moscow, Idaho, U.S.A	30.9.08	Dairy information
6	Prof. D. P. Ray, Vice-Chancellor, OUAT, Bhubaneswar, Orissa	23.10.08 10 to 30 <sup>th</sup> Nov.	Farm visit Faculty members from different
7	Dr. D. Kumar, Professor and Head, Department of Veterinary Parasitology, Rajiv Gandhi College of Veterinary & Animal Sciences, Kurumbapet, Puducherry	2008	Institutions visited Dept. of Parasitology during the XI National Training Programme on "Trends and perspectives in the detection, identification and control of parasitic diseases"
8	Dr. P. Sengupta, Senior Scientist, PD ADMAS, Hebbal, Bangalore	- do -	- do -
9	Dr. T.J. Harikrishnan, Professor & Head, Department of Parasitology, Veterinary College and Research Institute, TANUVAS, Namakkal	- do -	- do -
10	Dr. Satish U. Digaskar, Professor, Department of Preventive Medicine, College of Veterinary & Animal Sciences, MAFSU, Parbhani (M.S.)	- do -	- do -
11	Dr. S.L. Hoti, Deputy Director (Sr. Gr.), Vector Control Research Centre, Indira Nagar, Puducherry	- do -	- do -
12	Dr. V.V.S. Suryanarayana, Principal Scientist, FMD Research Laboratory, Indian Veterinary Research Institute, Hebbal, Bangalore	- do -	- do -
13	Dr. B.W. Naladkar, Associate Professor, Department of Parasitology, College of Veterinary & Animal Sciences, MAFSU, Parbhani (M.S.)	- do -	- do -
14	Dr. S. Abdul Rahman, Former Director of Instruction, Veterinary College Bangalore and Secretary Commonwealth Veterinary Association	- do -	- do -
15	Dr. Ashok Ninawe, Hon'ble Vice-Chancellor, MAFSU, Nagpur	29 <sup>th</sup> November, 2008	Vice-Chancellors of State and Deemed Veterinary Universities and KVAFSU Officers meeting



16	Dr. A.K. Srivastav, Director, NDRI, Karnal	- do -	- do -
17	Dr.Hung Jen Liu, Professor and Director, Dept. of Veterinary Medicine, Graduate Institute of Biotechnology	10 <sup>th</sup> February, 2009	Interactive Meeting with officers of National Pingtung University of Science and Technology, Taiwan and KVAFSU
18	Dr. George, Tzou-Chihuang, Professor, Dept. of Food Science, Centre for Active Natural Products Development	- do -	- do -
19	Dr. Taylor Wang, Lan-Hong Co., Ltd, Kaohsiung	- do -	- do -
20	Dr. Henry H. H. Chen, Director, Office of International Affairs and Professor, Dept. Of Food Science	- do -	- do -
21	Dr. S. K. Vijayasarathi, Head, Advinus and Pathologist, Advinus	12 <sup>th</sup> March, 09	Discussion on Toxicopathology
22	Eldon Unhopp, Professor, Iowa University, USA	25-02-09	Veterinary College to understand the Internship programme in our Institution
23	Dr. K. Muraleedharan, Professor & University Head (Retd.), T.C.37/282, T.K. KUDAM, Thrissur-680003	02-03-09 to 21-03-09	Faculty members from different institutions visited Dept. of Parasitology during the XII national Training programme on "Emerging and Re-emerging parasitic diseases of Veterinary and Public Health importance
24	Dr. Sriram Rao and Dr. Srinand Srivatsan, Associate Dean and Associate Professor, University of Minnesota	18 <sup>th</sup> March, 2009	Interactive Meeting of Faculty of Minnesota and KVAFSU Officers
<b>Veterinary College, Hassan</b>			
25	Inspection by VCI team of Inspectors	on 7, 8, and 9 <sup>th</sup> August, 2008.	
26	Hon'ble minister of A.H. Revunaik Belamagi visited Veterinary College on 27-08-2008 along with Hon'ble Vice Chancellor and Sri H.S. Prakash M.L.A.		
27	Hon'ble Vice chancellor Prof. S.S.Honnappagol and members of the Board of Management Dr.Gopalgowda and Dr. H.T.Mohan Kumar visited veterinary college on 9-10-2008		
<b>College of Fisheries, Mangalore</b>			
28	Dr. K.K. Datta, Principal Scientist, National Centre for Agricultural Economics and Policy Research, New Delhi	28.03.2008	Visit for project progress assessment
29	Dr. B.Ganesh Kumar, Sr. Scientist, National Centre for Agricultural Economics and Policy Research, New Delhi	28.03.2008	Project collaboration
30	Prof. Shyam Jekwani, ICAR, New Delhi	30.06.2008	Visitor
31	Dr. K.S. Raj, Grimsby Institute of Technology UK	21.01.2009	Research collaboration
32	Mohammed Asif and Mohammed Anis, Sehat Canning Company Govt. of Nigeria	31.03.2009	Collaboration
33	Dr Babs Dyminish, Sehat Canning Company Govt. of Nigeria	24.04.2009	Accompanying visitor
34	Dr. S. Ayyappan, Deputy Director-General (Fisheries), Indian council of agricultural Research, New Delhi	13-Feb., 2009	Keynote speaker at Matsyamela
35	Dr. M V Gupta, Former Asst. Director General, World Fish Center, Malaysia and World Food Prize Winner	13-Feb., 2009	Keynote speaker and Pillay Foundation Day lecture



36	Dr. William Reid, Dean, School of Veterinary Medicine, Perdue University, USA	08-03-2008	Visit to see the facilities for future collaboration under joint programme between KVAFSU & Perdue University
37	Dr. Fahim, Sr. Science Programme Officer, Unesco, Delhi Centre	08-03-2008	Review of UNESCO Centre in the Dept. of Microbiology and discussion for expanding collaboration in other fields
38	Sri Krishna Palemar, Minister of Fisheries and Ports, GOK	20-06-2008	For inauguration of training programme on Fresh water pear production
39	Dr. Sharathchandra, Chairman, KSPCB, Bangalore	30-06-2008	For attending National seminar on Aquatic pollution and its abatement
40	Prof. Daniel Khan, Principal, Grimsby Institute of Further and Higher Education, UK	21-01-2009	Collaboration
41	Dr. Mike Dillon, Vice-Principal, Grimsby Institute of Further and Higher Education, UK	21-01-2009	Collaboration
42	Mohan S Bhat, Mohammed Asif & Mohammed Anis Seahath Canning Company, Goa	31-03-2009	Recruitment of fisheries graduates
<b>Institute of Animal Health &amp; Veterinary Biologicals, Bangalore</b>			
43	Henry Mathias, Export Inspection Council of India, New Delhi	26/05/08	
44	Dr. Torwar Field, FVO, European Commission	26/05/08	
45	Dr. Bemj Haas, Friedrich Loeffles Institute, Germany	26/05/08	
46	Virendra Yadav, Member, EC, DUVASU	02/08/08	
47	K.V. Nagaraja, Associate Professor, University of Minnesota, St. Paul	- do -	
48	Dr. S. M. Das, Director, CVL, Ministry of Livestock Development and Fisheries	30 <sup>th</sup> Oct., 2008	
49	Ms. Cathenne Joseph, BPP, DNLRI	30 <sup>th</sup> Oct., 2008	
50	Dr. D. S. Sendalo, ADR-DRTE	- do -	
51	Dr. R.P. Mbmille, ADR-DRTE	- do -	
52	Prof. A.K. Srivastava, Director, NDRI Karnal	29/11/08	
53	Dr. Arun Ninawe, Vice-Chancellor, MAFSU, Nagpur	29/11/08	
54	Dr. S.K. Bandyopandhy, Animal Husbandry, Commissioner, DADF, Ministry of Agriculture, Government of India, Krishibhavan, New Delhi	20.01.09	
55	Yuan-kuang Guv, President, National Pingtung University of Science and Technology, Neipu, Pingtung (TAIWAN)	10.02.09	
56	Tzou, Professor, HO-HSEIN CHEN	10.02.09	
57	Cho Huang, Professor and Director, Office of International affairs	- do -	
58	Hung-Ju Liu, Graduate- Institute of Biotechnology, National Pingfug University of Science and Technology, Taiwan	10.02.09	
59	Eldon Unfrakepp, IOWA State University, AMES IOWA, U.S.A	26.02.09	
60	Annie Libell, Development solutions Ltd, China / U.K. Poul, H. Jorgewsen, NET-PTU,	5 <sup>th</sup> March, 2009	

	Arhus. N, Demark, Harm Iriezebrink, BFC bird Flu control, Munrich		
61	Srinand Sreevastan, Associate Professor & Associate Dean, University of Minnesota, St. Paul	18 <sup>th</sup> March, 2009	
62	Srirama Rao, Professor, University of Minnesota, St. Paul	- do -	
<b>Livestock Research &amp; Informaiton Center (Deoni), Halliked</b>			
63	Dr. Mrutyngaya, National Director ICAR New Delh	30.11.08	NAIP Project
64	Dr. Anand, President, Organic Farming, Karnataka Government	23.05.08	Organic farming
<b>Fisheries Research &amp; Informaiton Center, Ankola</b>			
65	Mr. Ravi Goda, NACA, Kundapura	17.4.2008	To Start Society of Shrimp Farmers in Ankola
66	Mr. H.S. Veerappa Gowda, Director of Fisheries, Govt. of Karnataka	15.11.2008	Visit to MFRIC to see the Farm Activites

## 15. Information on Extension Education Council and Important Decisions taken

### 3<sup>rd</sup> Extension Education Council Meeting

The 3<sup>rd</sup> Extension Education Council (EEC) Meeting was held on 27<sup>th</sup> April, 2008 in the Board Room of the KVAFSU, Bidar. The acting Vice-Chancellor chaired the meeting. All the officers of the University, Heads of Divisions and Heads of Stations attended and made presentations. Various important decisions including policy issues were discussed and approved for establishment of 'Farmers Training Institute' at Bidar, Bangalore and Mangalore along with Extension Education Wings (EEWs). The Director of Extension and Member Secretary coordinated the meeting.

### Reconstitution of the Extension Education Council

The Extension Education Council (EEC) was reconstituted as per the provisions made under Chapter-4 Section-31 of the KVAFSU Act 2004 for a term of 2 years. The following members were nominated. Registrar and Comptroller were also included the EEC as Special Invitees.

1. The Hon'ble Vice-Chancellor, KVAFSU, Bidar : Ex-officio Chairperson
2. The Director of Research, KVAFSU, Bidar : Member
3. The Director of Instruction (PGS), KVAFSU, Bidar : Member
4. The Director, Dept. of AH&VS, Bangalore : Member
5. The Director, Dept. of Fisheries, Bangalore : Member
6. The Dean, Veterinary College, Bangalore : Member
7. The Dean, Veterinary College, Bidar : Member
8. The Dean, Dairy Science College, Bangalore : Member
9. The Dean, College of Fisheries, Mangalore : Member
10. The Dean, Veterinary College, Shimoga : Member
11. The Dean, Veterinary College, Hassan : Member

12. The Head of Division, Veterinary Science : Member
13. The Head of Division, Animal Science : Member
14. The Head of Division, Poultry Science : Member
15. The Head of Division, Dairy Science : Member
16. The Head of Division, Fisheries Science : Member
17. Associate Director of Research : Member
18. Mr. Kudre, B.S. Dairy Farmer, Bidar : Member
19. Mr. Babu Shetty Fish Farmer, Dakshina Kannada : Member
20. Mr. P. T. Ananda Rao Progressive Farmer, Raichur : Member
21. Director of Extension, SVV University, Tirupati (AP) : Member
22. Director of Extension, MAFS University, Nagpur : Member
23. The Director of Extension, KVAFSU, Bidar : Members Secretary

### Annual Technical Meeting on Extension in Dairy Science

Annual technical meeting on Extension Education in Dairy Science was organised at Dairy Science College, Hebbal, Bangalore on 16<sup>th</sup> March, 2009. The meeting presided over by Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, in the presence of Dr. B. V. Venkateshaiah, Dean, Dairy Science College, Hebbal, Bangalore. Extension Education activities conducted during the year 2008-09 were presented and discussed. Technical programmes for the year 2009-10 were also proposed. Head of Division and all the faculty members in Dairy Science attended the meeting.

### Annual Technical Meeting on Extension in Veterinary, Animal & Poultry Sciences

Annual technical meeting on Extension Education in Veterinary, Animal & Poultry Sciences was organised at Veterinary College, Hebbal, Bangalore on 17<sup>th</sup> March, 2009. The meeting presided over by Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, in the presence of Dr. S. Yathiraj, Dean, Veterinary College, Hebbal,

Bangalore. Extension Education activities conducted during the year 2008-09 were presented and discussed. Technical programmes for the year 2009-10 were also proposed. Heads of Divisions and all the faculty members in Veterinary, Animal & Poultry Sciences attended the meeting.

#### **Annual Technical Meeting on Extension in Fisheries Science**

Annual technical meeting on Extension Education in Fisheries Science was organised at College of Fisheries, Mangalore on 21<sup>st</sup> February, 2009. Prof. Suresh, S. Honnappagol, Vice-Chancellor, KVAFSU; Dr. H. Shivananda Murthy, Director of Extension, KVAFSU; Dr. S. M. Usturge, Director of Research (I/c), KVAFSU; Dr. Y. Basawaraju, Dean, College of Fisheries, Mangalore; Head of Division and all the faculty members in Fisheries Science attended the meeting. Extension Education activities conducted during the year 2008-09 were presented and discussed. Technical programmes for the year 2009-10 were also proposed.

#### **Annual Technical Meeting on Extension in Veterinary, Animal Husbandry & Poultry Sciences**

Annual technical meeting on Extension Education in Veterinary, Animal Husbandry & Poultry Sciences was organised at Veterinary College, Bidar on 31<sup>st</sup> March, 2009. The meeting presided over by Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, in the presence of Dr. Y. Haribabu, Dean, Veterinary College, Bidar. Extension Education activities conducted during the year 2008-09 were presented and discussed. Technical programmes for the year 2009-10 were also proposed. All the faculty members in Veterinary, Animal Husbandry & Poultry Sciences pertaining to Bidar region attended the meeting.

#### **Other Activities**

##### **(i) "Januvaru, Kukkata & Matsyamela 2009" held at Bangalore Campus**

The first 'Januvaru, Kukkata & Matsyamela 2009' of KVAFSU was organised for the 1<sup>st</sup> time at Regional Campus, Hebbal, Bangalore during 21 - 22 February, 2009. Shri. Katta Subramanya Naidu, Hon'ble Minister of Heavy Industries and Excise inaugurated the mela. Smt. Shamim Banu, IAS, Principal Secretary, Department of Animal Husbandry & Fisheries; Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU, Bidar; Hon'ble Members of Board of Management, KVAFSU, Bidar; Dr. M. Devaraj, Registrar, KVAFSU, Bidar; Dr. G. H. Kulkarni, Vice-Chancellor, UAS, Dharwad; Dr. N. Rajagopal, Director, Department of AH

& VS; Dr. Veerappagowda, Director, Department of Fisheries and officers & Deans of constituent colleges of the University participated in the inaugural function. Dr. H. Shivananda Murthy, Director of Extension & Chairman, Organizing Committee of the mela delivered the welcome address and Dr. B. V. Venkateshaiah, Dean, Dairy Science College proposed the vote of thanks.

Different organizations and departments exhibited their products during the mela. More than one lakh farmers and general public participated in the mela.



Livestock & poultry breeds, fish varieties including ornamental fish and pet birds were exhibited. The cattle breeds like Amrithmahal, Hallikar, Deoni, Sahiwal, Punganur, Red sindhi, Tharparkar, Ongole, Mainad gidda, Gir, HF & Jersey cross, buffalo breeds like jaffarabadi, Murrah, Sheep breeds like Bannur, Nellore, Nari, Rambouillet, Goat breeds like Jamunapari, Boer; Broiler rabbits like New Zealand white, Russian grey giant, Californian white, Soviet chinchilla, pig breeds



like Yorkshire, camel, horses, emu, turkey, ducks, Giriraja, Swarnadhara, and Raja-II poultry breeds were of attraction during the mela.

The Valedictory function was held on 22<sup>nd</sup> February, 2009. Hon'ble Vice-Chancellor, Hon'ble Members of



Board of Management, KVAFSU, Bidar, Dr. P. G. Chengappa, Vice-Chancellor, UAS, Bangalore. Dr. Prabhu Kumar, Zonal Project Director, ICAR, Dr. Munivenkatappa, Joint Director, Watershed Department and all the Officers of the University participated in the programme. Six progressive livestock farmers were felicitated. Further, best prizes to three stalls namely, Vinay Dairy Farm, Dharwad, Watershed Department, Bangalore and Central Poultry Development Organization, Hesarahatta were awarded.

**(ii) 'Matsyamela' organised at Mangalore Campus**

The College of Fisheries, Mangalore organized a 'Matsyamela-2009' with funding support from National Fisheries Development Board, Hyderabad, during February 13-15, 2009 at Nehru Maidan, Mangalore. It was inaugurated by Dr. M.V. Gupta well-known International Fisheries Scientist and World Food Prize laureate in the presence of Prof. Suresh Honnappagol Hon. Vice Chancellor, KVAFSU, Bidar, Dr. S. Ayyappan, DDG (Fisheries), ICAR, New Delhi, Sri. Monappa Karkera, Member of the Board of Management, KVAFSU, and Dr. Y. Basavaraju, Dean, College of Fisheries. One of the main attractions of the Matsyamela was the exhibition and sale of Fish and Fishery products, value added fish



Dr. M.V.Gupta, World Food Prize Laureate Inaugurating the Matsya Mela

products, ready to eat fish, aquarulum fish and accessories, scientific information, opportunities in fisheries sectors, exhibition of fish related industries, cultural programmes, cooking competitions for women etc. Dr. C. Vasudevppa, Senior Executive Director, NFDB, Hyderabad, Dr. Sandeep Sancheti, Director, NITK, Surathkal, Sri. H.S.Veerappa Gowda and Director of Fisheries were Chief Guests for the Closing Function which was presided by Dr. Y.Basavaraju, Dean (F). It was estimated that over 30,000 people visited the Matsyamela during the three day period.

**Highlights of the Extension Education Activities organised by the Extension Education Wing, Hebbal Campus, Bangalore**

- In view of the inauguration of EEW on 11-07-2008 one day training on value addition product preparation (Bakery, Milk and Ragi) was organised at EEW, Dairy Science College, Hebbal, for SHG of Solur village of Devanahally taluk.
- "Women in Agriculture Day" was organised on 12-12-2008 at Solur village of Devarahally taluk. In view of the programme on day lecture cum demonstration of fish culture and value added fish product preparation was conducted for the benefit of the NSS volunteers and 25 Self Help Group and demonstration on fish product (Fish cutlet) preparation was organised. Head of the EEW, Hebbal Campus and Subject Matter Specialists (SMSs) participated in the programme.
- One day Blood donation camp was also organised by Extension Education Wing, Hebbal Campus, Bangalore and NSS, Dairy Science College in collaboration with Indian Red Cross Society, Bangalore. About 35 volunteers including villages were donated blood. Some of the action photos taken during the camp are enclosed here with.
- One day seminar on "Farmers and Scientists Interaction" was organised on 30-01-2009 in Vishwanathpura village, Vishwanathpura taluk. The programme was organised for the benefit of Farmers and Self Help Group. A training programme on value added milk products was also organised for the SHG. In the view of the programme Giriraja birds and Fish fingerlings were distributed to the farmers of the village.
- Participated in the JSS Krishimela at Suttur, Mysore District which was scheduled from 23-01-2009 to 27-01-2009. An exhibition stall was installed representing KVAFSU, Bidar. Many students, Farmers and women were benefited by the information displayed at the stall.

### **"World Veterinary Day" at Veterinary College, Bidar**

The "World Veterinary Day" was organised by the Veterinary College, Bidar on 26<sup>th</sup> April, 2008. The acting Vice-Chancellor Dr. G.S. Bhat inaugurated the programme and addressed the gathering. Dr. M. Devaraj, Registrar; Prof. Suresh, S. Honnappagol, Director of Research; Dr. H. Shivananda Murthy, Director of Extension; Dr. S.M. Usturge, Director of Instruction (PGS); Dr. Y. Haribabu, Dean, Veterinary College, Bidar and Dr. Devaraj, Deputy Director, AH&VS, Bidar participated in the programme.

One day 'Farmers-Scientist Interaction' meet was also organised during the occasion. Scientists and farmers exchanged views and recent advances were



discussed. About 40 farmers attended and benefited by the programme.

### **Launching of Extension Education Wing at Mangalore Campus**

The Extension Education Wing (EEW) under the Directorate of Extension located at the College of Fisheries Mangalore was inaugurated by Shri. Krishna, J. Palemar, Hon'ble Minister for Fisheries, Ports and Small Savings and Dakshina Kannada District In-charge Minister on 20<sup>th</sup> June, 2008. After inaugurating the



Wing, the minister complimented the University for starting the Wing which would help large number of farmers of the coastal Karnataka region. He wanted the Wing to address the problems of dairy, piggery, poultry and fish culture in the area and strengthen it with appointment of Subject Matter Specialists. Dr. H. Shivananda Murthy, Director of Extension and Dr. Y. Basavaraju, Dean (Fisheries) were present and Dr. S.M. Shivaprakash, Head of the EEW coordinated the programme.

### **Training Programme on Fresh Water Pearl Culture**

The Extension Education Wing (EEW) of the Mangalore Campus conducted a two day training programme on "Fresh Water Pearl Culture" at the main campus of the College of Fisheries during 20-21<sup>st</sup> June, 2008. The programme was inaugurated by Mr. Krishna, J. Palemar, Hon'ble Minister for Fisheries, Ports and Small Savings. About 35 farmers attended the training programme. Dr. H. Shivananda Murthy, Director of Extension and Dr. Y. Basavaraju, Dean (F), were present. A demonstration was given to the farmers on the transplanting technique of nucleus into the mantle portion of the mussels, which will gradually evolve into natural pearl.



### **World Veterinarian's Day**

The 'Veterinarian's Day' was celebrated jointly by Veterinary College, Shimoga and Department of AH&VS on 26<sup>th</sup> April, 2008. Dr. Mallikarjunappa, Dean Veterinary College, Shimoga presided the function and Dr. Basavaraj, Deputy Director, Dept. of AH & VS was the Chief Guest. Dr. Nagaraj, who was the recipient of the Best Veterinarian award of the year 2007 by Karnataka Veterinary Association, was felicitated during the occasion.

### **Training on Educational Technology**

A week long advanced training programme on "Educational and Instructional Technology" was held in

the Veterinary College, Bidar for the benefit of Assistant Professors and Associate Professors of the KVAFSU. The programme was inaugurated by Dr. G.S. Bhat, acting Vice-Chancellor on 28<sup>th</sup> May, 2008. Dr. M. Devaraj, Registrar; Dr. H. Shivananda Murthy, Director of Extension; Dr. S.M. Usturge, Director of Instruction (PGS) and Dr. Y. Haribabu, Dean, Veterinary College, Bidar attended the programme. The programme was organised by NAARM, Hyderabad in the KVAFSU Campus for the benefit of young teachers of the University.

The Valedictory Function was held on 2<sup>nd</sup> June, 2008 and participation certificates were distributed. Dr. S. Mallikarjunappa, acting Vice-Chancellor; Dr. H. Shivananda Murthy, Director of Extension; Dr. Y. Haribabu, Dean, Veterinary College, Bidar and others attended the programme.

#### Launching of Extension Education Wing at Bangalore

The Extension Education Wing (EEW), Bangalore Campus was inaugurated on 11<sup>th</sup> July, 2008 at Dairy Science College by the Acting Vice-Chancellor. Director of Extension, Dean (DSCH), Dean (VCH), Director of IAH&VB and others participated. Training cum method demonstration on Value added milk, ragi and bakery products preparation was organised on the same day. During the concluding session, the Director of Extension distributed the certificates to the participants in the training programme.



#### "World Food Day" Celebration

The Extension Education Wing (EEW), KVAFSU, Bangalore Campus organised "World Food Day" celebration on 24<sup>th</sup> October, 2008 in collaboration with Canara Bank, Vishwanathpura Branch, Devanahally taluk and Farmers of Solur village. An Animal Health Camp was organised and treated more than six hundred animals including large and small animals for various diseases. The Solur village was formally adopted by the University. Hon'ble Vice-Chancellor, KVAFSU, Bidar,

K. Muniswamy, MLA, Devanahally taluk, Director of Extension, KVAFSU, Dean (VCH), Dean (DSCH) and Director of IAH&VB, Bangalore participated. Prizes were distributed to winning farmers (SHG) on value added ragi products, best cow & best calf, highest milk producer in the village etc. Further, piglets, Ram and fingerlings were distributed to farmers. About 250 farmers participated and benefited by the programme.



#### Training programme on "Fish Culture"

A training programme on "Fish and freshwater prawn farming" was organised by the Directorate of Extension at Livestock Research and Information Center (Deoni), Hallikhed during July 16-18, 2008, for the benefit of farmers of Bidar and Gulbarga districts. Hon'ble Minister for Animal Husbandry and Veterinary Services & Pro-Chancellor of the University inaugurated the programme. Acting Vice-Chancellor and Director of Extension were present. Thirty five farmers of the region attended and benefited by the programme. Dr. Satish Chandra Biradar, Farm Superintendent, LRIC, was the convener of the training programme.



#### Establishment of FRIC, Bijapur

New Fisheries Research and Information Center (FEIC) at Alamatti, Bijapur district was inaugurated on 07-12-2008 by Sri. Yediyurappa, Hon'ble Chief Minister of Karnataka at Bijapur. Sri. Govind, M. Karjola, Minister for Minor Irrigation, Planning and Statistics and District

In-charge Minister and Sri. Revu Naik Belamagi, Minister for Animal Husbandry were present. Prof. Suresh, S. Honnappagol, Vice-Chancellor, Dr. S. M. Usturge, Director of Research, KVAFSU, Bidar, Sri. H. S. Veerappa Gowda, Director of Fisheries, Government of Karnataka and Dr. K. N. Prabhudeva, Officer on Special Duty, FRIC, Alamatti were present on the occasion.



#### Visit of Zonal Coordinator to Bidar Campus

Dr. Prabhukumar, S., Zonal Coordinator, Zonal Coordinating Unit, ICAR, Bangalore visited the Bidar Campus and inspected the progress of Farmers Training Hostel construction, which is sponsored by the ICAR. He also visited the Livestock Interest Groups formed by the University at Kamthana. The Director of Extension and Head of AH&E, Veterinary College, Bidar accompanied the Zonal Coordinator.

#### Press Conference at Bidar Campus

A press conference was organised at Bidar Campus on July 31<sup>st</sup>, 2008. The new (Prof. Suresh, S. Honnappagol) Vice-Chancellor addressed the press conference after taking over charge as Vice-Chancellor and enlisted future programmes and activities of the University. The Director of Extension coordinated the conference. Other University officers were present during the press conference. Wide publicity was given in the press and media for the programme.

#### Installation of Video Conferencing facility in the University

Video Conferencing facility was established at the University Head Quarter, Bidar and Regional Office Bangalore Campus simultaneously during August, 2008. Undergraduate admission and connected counseling of students for various degree programmes of the University was organised through video conferencing for the first time in the University.

#### Field Day on 'Bio-Village'

A field day on 'Bio-Village Concept' was organised by

the Directorate of Extension at Livestock Research and Information Center (Deoni), Hallikhed, depicting the various farming activities including Deoni Cattle, Emu, Turkey, Fish, Azolla, Vermicompost, Green Fodder Cultivation etc. The Hon'ble Vice-Chancellor, inaugurated the programme. The Director of Extension, Director of Research (I/c) and Managing Director, KMF, Bidar-Gulbarga Division, were present. About 200 farmers attended and benefited by the programme. The programme was coordinated by Farm Superintendent, LRIC, Hallikhed.



#### Establishment of e-Resources Center at Bidar and Bangalore

'E-Resources Center' established at the Bidar Campus Library was launched by the Hon'ble Vice-Chancellor, KVAFSU on 23-10-2008. Hon'ble Members of Board of Management were present during the occasion. All the officers of the University were present. University Librarian (I/c) coordinated the programme.

Similarly e-Resources Center was also established at Regional Campus Library at Bangalore during October, 2008, which was inaugurated by Hon'ble Vice-Chancellor. Director of Extension & University Librarian (I/c), Dean, Veterinary College, Bangalore; Dean, Dairy Science College, Bangalore; Director, IAH&VB; all the Heads of Divisions and faculty were present. Each library is equipped with 20 computers, servers, printers, work stations and other required infrastructure under the sanctioned ICAR grant for the purpose.





### Launching of University Website

A newly designed and upgraded website for the University ([www.kvafsu.kar.in](http://www.kvafsu.kar.in)) was developed and launched on 23<sup>rd</sup> October, 2008 at Bidar Campus. Hon'ble Vice-Chancellor launched the website. Hon'ble Members of Board of Management and Member Secretary of BOM and officers of the University were present. Director of Extension coordinated the programme. All the teachers, non-teaching staff and students attended the programme.



### Training on Chemical Analysis of Fluid Milk

Four training programmes on "Chemical Analysis of Fluid Milk" for the benefit of Chemists of different Milk Unions of Karnataka Milk Federation (KMF) were organised by the Dairy Science College, Bangalore during August to October, 2008. Totally 52 Officers of KMF were trained. Dr. Narasimha Murthy, Dr. Keshava Prasad and Mr. C. Kempanna were participated as resource persons

### Training Programme on 'Integrated Farming'

A training programme on "Integrated Farming" including animal husbandry, dairy, goat & sheep, poultry, piggery and fish farming was organised by the Extension Education Wing (EEW), Bangalore at



Vishwanathapura village, Devanahalli taluk on 30<sup>th</sup> January, 2009. Demonstration of value added products

of milk was done for the benefit of farm women and members of Self Help Groups (SHGs). The Director of Extension, KVAFSU and Dean, Dairy Science College, Bangalore participated. On this occasion 50 'Giriraja' birds were distributed to farmers and 2000 fish fingerlings were released in the four ponds of the farmers on the same day. More than 100 farm women and farmers participated in the programme.

### Fish Farmers Day at Hesaraghatta

"Fish Farmers Day" was celebrated on 10<sup>th</sup> July, 2008 at FRIC (I), Hesaraghatta. The programme was inaugurated by Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar. Dr. L. Varadaraj Kumar, Assistant Director, Composite Live-stock Farm, Hesaraghatta and Smt. R. Lalitha, Grama Panchayat Chairman, Huralichikkanahalli were the Chief Guests for the occasion. Dr. K. V. Mohire, Professor and Head, FRIC, Hesaraghatta and Dr. G. Y. Keshavappa Professor and Head, FRIC, Hebbal coordinated the programme. Sixty farmers (men and women) from nearby villages



participated in the programme. To mark the occasion, one day training programme was organised for the benefit of farmers on "Composite fish culture and ornamental fish production" involving demonstration and farm visit.

### World Rabies Day organised at Hassan Veterinary College





'World Rabies Day' was organized by the Veterinary College, Hassan jointly with Department of AH & VS, Hassan, Common Wealth Veterinary Association, Bangalore and Lions Club, Hassan on 28.09.2008 at Mylanahalli Village. A Rabies awareness Jatha (road show) was organized from Veterinary College campus to Mylanahalli and simultaneously at College campus and at Mylanahalli. 142 pet and stray dogs were vaccinated with Anti-Rabies Vaccine. A technical seminar was also organized for which Dr. Nagendra, Deputy Director, AH & VS, Hassan was the Guest. Dr. M.S.Vasanth, Dean presided over the function. Dr. H. Deveraj Naik, Dr. A. S. Jayanna and other faculty were present. This was the first service programme organised by the Veterinary College, Hassan, which was appreciated by the residents of people around the campus and Mylanahalli.

#### **Training Programme on 'Value addition to fish products'**

One day training programme on "Value addition to fish and fishery products" was organised at Bengare village in Dakshina Kannada district on February 25<sup>th</sup>, 2009 for the benefit of 40 fisher women. The Director of Extension, KVAFSU; local leaders and Panchayat officials attended the programme. The programme was jointly coordinated by the EEW, Mangalore Campus and the NETFISH, Karnataka Division.

#### **Training Programme on 'Dairy products technology'**

A five days training programme on "Value addition to milk products" was organised by the Directorate of Extension at Dairy Science College, Hebbal, Bangalore. The Director of Extension, KVAFSU and Dean, Dairy Science College, Hebbal, Bangalore were present. 30 officers and field functionaries of KMF and Subject Matter Specialists (SMSs) of KVKs attended and benefited by the programme. The Head of Division, Dairy Science, coordinated the programme.

#### **Training Programme on 'Fish farming and value addition to fish & its products'**

A five days training programme on "Fish farming and value addition to fish and its products" was organised by the EEW, Mangalore at Mangalore Campus for the

benefit of 30 officers of the State Fishery Departments and SMSs of KVKs. The Valedictory function was attended by the Director of Extension, KVAFSU, and distributed the certificates to the participants. The programme was sponsored by the Zonal Project Directorate, ICAR through the Directorate of Extension.

#### **Training Programme in 'Intensive Aquaculture'**

A five days training programme on "Intensive Aquaculture" was organised by the Directorate of Extension at Bantwal in Dakshina Kannada district during 23-27<sup>th</sup> March, 2009. The programme was attended by Director of Extension, KVAFSU and Executive Officer of Taluk Panchayat. Professor of Aquaculture (Dr. E. G. Jayaraj), College of Fisheries, Mangalore coordinated the programme. The programme was attended by 35 fish farmers.

#### **Training Programme on 'Brackishwater fish culture'**

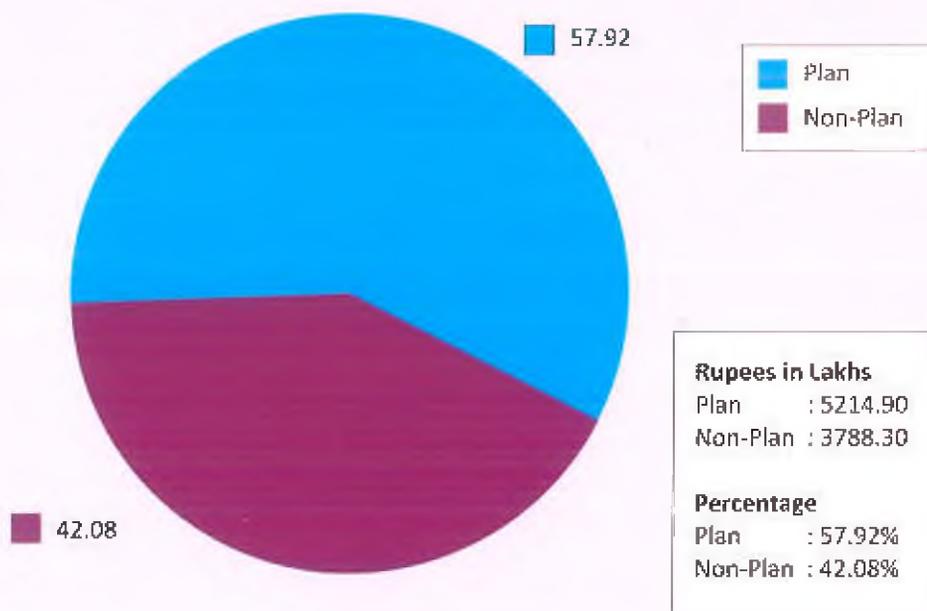
A five days training programme on "Brackishwater fish culture" was organised at Fisheries Research & Information Center (FRIC), Ankola during 21-25<sup>th</sup> March, 2009. 30 fish farmers attended and benefited by the programme. The Director of Extension, KVAFSU participated in the Valedictory function and distributed the certificates to the farmers. The programme was coordinated by the Associate Professor, FRIC, Ankola. The programme was sponsored by NFDB, Hyderabad.

#### **Training Programme on 'Livestock for livelihood security'**

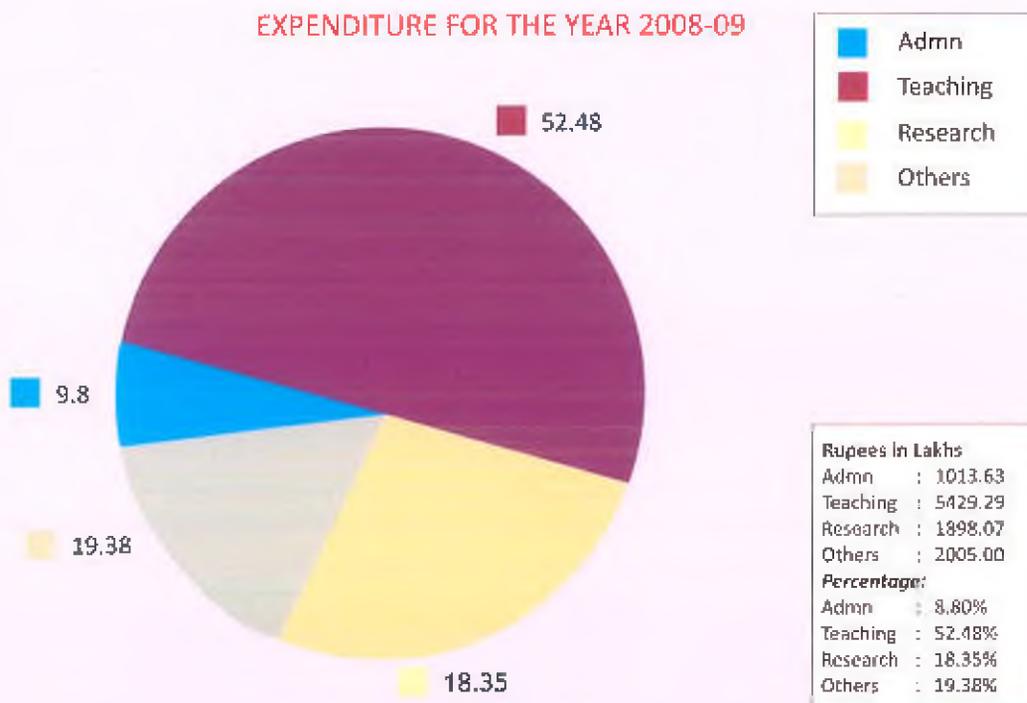
A five days training programme entitled "Livestock for livelihood security" was organised during 22-26<sup>th</sup> March, 2009 at University Campus, Bidar for the benefit of SMSs of KVKs and field functionaries of line Departments and NGOs. The Director of Extension, KVAFSU, attended the Valedictory function and distributed the certificates. Dean, Veterinary College, Bidar presided over the valedictory function. Associate Professor & Head, Department of AHE, Veterinary College, Bidar coordinated the programme. The programme was sponsored by the Zonal Project Directorate through the Directorate of Extension, KVAFSU, Bidar

## V. FINANCE AND BUDGET

### RECEIPT FOR THE YEAR 2008-09



### EXPENDITURE FOR THE YEAR 2008-09



## Budget at Glance

Receipts and Expenditure 2008-09

Rs. In Lakhs

Receipts				Expenditure			
Sl. No.		Plan	Non-Plan	Sl. No.	Particulars	Plan	Non-Plan
A	GENERAL FUNDS			A	GENERAL FUNDS		
I	Statutory Grants-State Govt.			i	General Administration	852.63	161.00
a)	Non Plan Grants	0.00	1383.30	ii	Teaching	3278.46	1749.36
b)	Development Grants	4110.00	0.00	iii	Research	286.17	151.16
c)	Grants for Adhoc Schemes	497.25	0.00		<b>TOTAL (i to iii)</b>	<b>4417.26</b>	<b>2061.52</b>
d)	Compensation for lands	0.00	0.00	iv	Schemes Sponsored by other Agencies	63.62	0.00
	<b>TOTAL (I)</b>	<b>4607.25</b>	<b>1383.30</b>	a)	Development - ICAR	401.47	0.00
II	GRANTS FROM OTHER AGENCIES	35.20	0.00	b)	ICAR Coordinated Projects (75%)	72.58	0.00
a)	Government of India	98.45	0.00	c)	ICAR Coordinated Projects (100%)	297.18	0.00
b)	ICAR			d)	Government of India Schemes	187.67	0.00
i)	Development	100.00	0.00	e)	State Adhoc Projects	839.69	0.00
ii)	Coordinated Projects	131.00	0.00		<b>TOTAL vi (a to e)</b>	<b>1798.59</b>	<b>0.00</b>
iii)	MCM / RAWE / Fellowship / Internship Allowance	27.00	0.00	A	<b>TOTAL A :</b>	<b>6279.47</b>	<b>2061.52</b>
iv)	NAIP Projects	216.00	0.00	B	FOUNDATION FUND	0.00	0.00
	<b>TOTAL (II)</b>	<b>607.65</b>	<b>0.00</b>	C	DEBT & SUSPENCE A/C.	0.00	2005.00
III	INTERNAL RESOURCES				<b>TOTAL (A+B+C)</b>	<b>6279.47</b>	<b>4066.52</b>
a)	Income from Fees	0.00	65.37		<b>Add : Closing Balance</b>	<b>1146.09</b>	<b>-1941.07</b>
b)	Income from University property	0.00	65.10		<b>GRAND TOTAL</b>	<b>7425.56</b>	<b>2125.45</b>
c)	Other Misc. Income	0.00	269.53				
	<b>TOTAL (III)</b>	<b>0.00</b>	<b>400.00</b>				
A	<b>TOTAL (A) GENERAL FUNDS</b>	<b>5214.90</b>	<b>1783.30</b>				
B	FOUNDATION FUNDS	0.00	0.00				
C	DEPT & SUSPENCE A/C.	0.00	2005.00				
	<b>TOTAL (A+B+C)</b>	<b>5214.90</b>	<b>3788.30</b>				
	<b>Add: Opening Balance</b>	<b>2210.66</b>	<b>-1662.85</b>				
	<b>GRAND TOTAL</b>	<b>7425.56</b>	<b>2125.45</b>				

## VI. GENERAL ADMINISTRATION

### (i) Vacant Backlog Teaching Posts filled up during the period

Sl No	Name	Appointed as	Place	Specialization
1	Dr. R. Nagaraja	Professor	LRIC, Nagamangala	AGB
2	Dr. Jayanayak	Professor	Veterinary College, Hassan	Poultry Science
3	Dr. B. N. Nagaraja	Professor	Veterinary College, Shimoga	Veterinary Surgery
4	Dr. P. T. Ramesh	Professor	Veterinary College, Shimoga	Veterinary Medicine
5	Dr. Venkatappa	Associate Professor	FRIC, Bijapur	Canning
6	Dr. Jagadeesh	Associate Professor	Veterinary College, Bidar	Veterinary Pharmacology
7	Mr. Rajanna, K. B.	Assistant Professor	LRIC, Konehally	Fisheries
8	Mr. Manjappa, N.	Assistant Professor	FRic, Ankola	Limnology (FEE)
9	Dr. Patel Suresh Revanna	Assistant Professor	Veterinary College, Shimoga	Veterinary Medicine
10	Dr. Srinivas Murthy, K. M.	Assistant Professor	Veterinary College, Bangalore	Veterinary Surgery

### (ii) Promotions made to Service Personals during the period

Sl No	Name	Present Post	Promoted as	Order No.
1.	Mr. Jadhav, U. S.	Library Assistant	Assistant Librarian	No. R/KVAFSU(B)/REctt/Sp.Prom/ 08-09/3010-B, dated: 16-02-2009
2.	Smt. Nalini Venkappa	Senior Assistant	Superintendent(G)	No. R/KVAFSU(B)Prom.NV/09-10/180-B, dated: 22-04-2009
3.	Smt. Sylvia Sheela	Attender	Laboratory Assistant	No. R/KVAFSU(B)Prom.SSV/ 2009-10/461-A, dated: 23-05-2009
4.	Mr. M. Krishna	Attender	Laboratory Assistant	No. R/KVAFSU(B)Prom.MK/ 2009-10/460-A, dated: 23-05-2009
5.	Smt. Girijamma	Attender	Laboratory Assistant	No. R/KVAFSU(B)Prom.G/2009-10/463-A, dated: 23-05-2009
6.	Smt. K. Rukminyamma	Attender	Laboratory Assistant	No. R/KVAFSU(B)Prom.KR/2009-10/464-A, dated: 23-05-2009
7.	Smt. Naima Khanum	Attender	Laboratory Assistant	No. R/KVAFSU(B)Prom.NK/2009-10/462-A, dated: 23-05-2009
8.	Mr. Venkataramana Swamy	Attender	Laboratory Assistant	No. R/KVAFSU(B)Prom.VS/2009-10/685-A, dated: 15-06-2009

### (iii) List of Superannuated Officials during the period

Sl No	Name and Designation	Date of Supernuation
<b>A. Teachers</b>		
1	Dr. M. G. Govindaiah, Professor, Veterinary College, Hebbal, Bangalore	30-04-2008
2	Dr. B. S. Venkatarami Reddy, Professor, Veterinary College, Hebbal, Bangalore	30-04-2008
3	Dr. G. S. Bhat, Professor & Head, Dairy Science College, Hebbal, Bangalore	31-05-2008
4	Sri. R. J. Katti, Professor, College of Fisheries, Mangalore	30-06-2008
5	Dr. P. Keshavanath, Professor, College of Fisheries, Mangalore	31-08-2008
6	Dr. L. Siddarama Gowda, Professor, College of Fisheries, Mangalore	31-10-2008
7	Sri. M. Haridas Bhandari, Professor, College of Fisheries, Mangalore	31-10-2008
<b>B. Service Personnel</b>		
8	Smt. Kamala, Senior Bus Helper, College of Fisheries, Mangalore	30-04-2008
9	Sri. K. N. Narayana, Attender, Veterinary College, Yalahanka, Bangalore	30-04-2008
10	Sri. Ramappa Police Patil, Senior Field Assistant, LRIC (Deoni), Karanja, Bidar	30-04-2008
11	Sri. M. Shreenivasa, Senior Driver (LV), Veterinary College, Hebbal, Bangalore	31-05-2008
12	Sri. Eshwarappa, Senior Bus Helper, College of Fisheries, Mangalore	31-07-2008
13	Smt. Gangamma, Senior Janitor, Veterinary College, Bangalore	28-02-2009
14	Sri. Ajad Ahmad, Lab Assistant, Dairy Science College, Bangalore	28-02-2009
15	Sri. T. M. Jayaraj, Attender, Dairy Science College, Bangalore	30-04-2009

## VII. INFRASTRUCTURE / DEVELOPMENT ACTIVITIES

### Veterinary College, Bidar

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Library building are pending	160.00	First floor roof work is completed. Finishing works
2	Farmers Trainees Centre are pending	95.00	First floor roof work is completed. Finishing works
3	Sports pavilion building	111.00	Work is Completed
	<b>Total</b>	<b>366.00</b>	

#### Proposed works

Sl. No.	Name of Work	Progress Details
1	Construction of First Floor over existing Girls hostel	95.61
2	Educational Museum building	95.97
3	Development of Sports facilities	42.10
4	Construction of LPM Building	22.00
	<b>Total</b>	<b>255.68</b>

### Veterinary College, Hebbal, Bangalore

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Library building	160.00	First floor roof work is completed. Finishing works are Pending.
2	Construction of main gate and approach road	42.00	Completing Stage
3	Construction of Piggery shed	20.00	Completing Stage
4	Water supply work	18.85	Work is Completed
5	Construction of Hatchery shed	33.00	Work is Completed
	<b>Total</b>	<b>273.85</b>	

#### Proposed works

Sl. No.	Name of Work	Progress Details
1	Construction of International Student hostel	120.00

### Fisheries Research & information Center, Hebbal, Bangalore

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of Hanging bridge and drainage	3.15	Work is Progress
2	Museum	5.00	Beginning stage
	<b>Total</b>	<b>8.15</b>	

### Fisheries College, Mangalore Campus

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Repair and Renovation of Swimming pool and water filtration plant	21.00	Work is Completed
2	Renovation of Indoor sports building	18.20	Completing stage
3	Electrification and Renovation to Extension Guest house.	32.00	Completing stage
4	Repair of FPT building, Dept. of Technology wing.	7.83	Work is Completed



5	Repair and renovation of roof of Aquaculture laboratory building	9.00	Completing stage
6	Construction of cemented earthen fish ponds	3.50	Work is Progress
7	Construction of spawning aquaria shed	2.93	Beginning stage
8	Repair and renovation of A,C, D & E type of cemented ponds, Dept. of Aquaculture	4.30	Work is Progress
	<b>Total</b>	<b>98.76</b>	

**Dist. Veterinary Wildlife Research Institute, Kudige, Kodagu**

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of Farmers Trainees hostel	100.00	Up to lintel level.
2	Extension of 11 KVA (3 Phase) Power HT Line	6.50	To be tendered

**Veterinary College, Shimoga Campus**

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Providing 11 KVA HT power line	11.00	Work is completed
2	Instructional Farms	80.70	Construction of Cow shed, Poultry shed, Calf shed and Helper shed is completed. Construction of veterinary hospital is completed.
3	Construction of compound wall	194.50	Campus of the North side up to 1200 Mtr and South side up to 550 mtr of compound wall is constructed. Work is under progress
4	Providing electrification to the Campus	109.70	HT line to entire campus has been provided, up to road UG cable and Street lights has been provided. Work is completed
5	Formation of road and drains	106.47	The work is completed
6	Construction of Staff quarters	215.00	Roof work for 'C' Type quarters of First floor building and 'D' Type quarters of Ground floor has been completed. Inside plastering and flooring work is under progress.
7	Construction of First Floor boys hostel	111.50	Roof of Entire building has been completed and plastering to the wall is completed. Flooring work is under progress.
	<b>Total</b>	<b>828.87</b>	

**Dairy Science College, Mahagaon Cross, Gulbarga**

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of Boys hostel	177.00	Beginning stage
2	Construction of Cattle shed	32.00	Beginning stage
3	Construction of "C" (4 Nos.) and "D" (4Nos.) type quarters.	110.00	Beginning stage
	<b>Total</b>	<b>319.00</b>	

5.24 Acres of Ganduri Nala Project Office Campus land is handed over to the University.

**Veterinary College, Hassan Campus**

72.00 Acres of land has been handed over to the University.

**Veterinary College, Gadag Campus**

82.00 Acres of land handed over to the University is in progress.

## VIII. INFORMATION FROM OTHER STATIONS

### A) Institute of Wildlife Veterinary Research, Kudige

Institute of Wildlife Veterinary Research (IWVR) was established during 2007-08 as per the direction of Government of Karnataka with initial allocation of Rs. 200 lakhs. During 2008-09, Rs. 60 lakhs and in 2009-10, Rs. 60 lakhs have been provided by the Government of Karnataka for this Institution.

The Institute of Wildlife Veterinary Research office is operating in the premises of Jersey Breeding Farm, Kudige on a temporary measure.

At present, the compound wall all along the boundary of IWVR site at Doddaluvar village is completing and the trainees hostel building will be constructed in this year (Tender procedure completed). It is planned to start M.V. Sc., in Wildlife during 2010-11 academic year. The University has created the posts of Director, teaching and non-teaching staff. Now, constitution of Advisory Board for IWVR and MDU with ZAK & Forest Department is under progress.





