



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

Nandinagar, P.B. No. 6, Bidar - 585 401, Karnataka , India

**5<sup>th</sup>**

*Annual Report*

**2009-10**

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## Preface

It gives me immense pleasure to place the fifth Annual Report of Karnataka Veterinary, Animal and Fisheries Sciences University, Nandinagar, Bidar. for the year 2009-10. The University with its basic mandate of being "Farmers Friendly & Rural Oriented" is striving hard to buildup the human resources, research and dissemination of knowledge developed through extension in the field of Veterinary, Dairy and Fishery Sciences across the state.

To impart education, the University has seven constituent colleges of which four are Veterinary Colleges located at Bangalore, Bidar, Shimoga and Hassan, two Dairy Science Colleges at Bangalore and Gulbarga and one College of Fisheries located at Mangalore. The University offers Undergraduate, Postgraduate and Doctoral degree programmes at these and capacity building. In addition to regular teaching programmes the University also conducts short term refresher training programmes in the form of continued education for the field professionals of the Line Departments like animal Husbandry and Veterinary Services, Fisheries and Karnataka Milk Federation. Many of the students have excelled in ICAR Junior Research Fellowship and Senior Research Fellowship at the National level during the year under report. A total of 59 students have completed their master's degree and 10 have completed their Doctoral degree in different disciplines. Apart from academics the students of the University have also excelled in the National level Sports, Youth Festival and NSS Activities.

There are several extramural funded research projects under operation in different disciplines, the findings of which were utilized for developing the technologies that can be transferred to the field for the benefit for farming community. Out of the research work carried more than 113 publications have been made by the faculty in journals of National and International repute and 138 papers have been presented at different National and Internationalsymposia. 10 technologies have been developed that included the novel technique of preserving the biological specimens by Plastination method is being developed utilizing Environmental Pollutants for the first time in the country, teaching E-module using animation and biofilm vaccine against Bovine Mastitis About 22 faculty members have received Regional and National level awards for their excellence during the period under report.

The faculty and the scientists working at Extension Education Wings, different constituent colleges and research and information centers are also engaged in extension programmes and have arranged several trainings, workshops, seminars, farmers-scientists interaction sessions, demonstrations, field visits across the University for the betterment of the farming community

I would like to thank the Govt. of India, Govt. of Karnataka Indian Council of Agricultural Research, New Delhi, DBT / DST, RKVY and other funding agencies for assisting in overall integrated development of the University and complement 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.

Place : Bidar

Sd/-  
Prof. Suresh, S. Honnappagol  
Vice- Chancellor



# Editorial

Karnataka Veterinary, Animal and Fisheries Science University (KVAFSU), Bidar Completed fifth year and it gives me immense pleasure to bring out the 5th Annual Report for the period 2009-10. At Present University having 7 constituent colleges out of which four veterinary colleges located at Bangalore, Bidar, Shimoga, and Hassan, two Dairy Science Colleges, one at Bangalore and the other at Mahagoan Gulbarga and one College of Fisheries, at Mangalore, imparting higher education in Veterinary and Animal Husbandry, Dairy and Fisheries sciences. Institute of Animal Health & Veterinary Biologicals (IAH&VB), located at Hebbal Bangalore is rendering its services in livestock disease diagnosis and production of vaccines for various livestock diseases. Livestock Research & Information Centers (LRICs,) Extension Education Wings (EEWs) located at different districts of the state have been carrying out research and extension education activities for the benefit of farming community in the state. One institute for Wild Life Veterinary Research & Extension at Kundige, coorge is functioning and has started the Post Graduate programmes in wild life during the year.

The Students of KVAFSU, have performed exceedingly well in their academic performance and have secured a good number of JFR & SRF fellowships of the ICAR at national level staff research is a major activity in the University. A good number of Research projects have been sanctioned to the University during the period and sufficient research work is being carried out in the new as well as on-going research projects. Research publications brought out by the faculty are included in the report

Extension Education is a back bone of the University, which cater to the needs of farming community in the State. The University has started five Extension Education Wings, one each at Bangalore, Mangalore, Bidar, Shimoga, and Hassan 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 has organised a Januvaru, Kukkata & Matsyamela at Headquarters. As mentioned in the University logo "Farmers Friendly Rural Oriented" good number of programmes have been carried out for farmers, farm women and entrepreneurs.

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.

Sd/-  
(S. Mallikarjunappa)  
Chief Editor &  
Director of Extension

Place : Bidar



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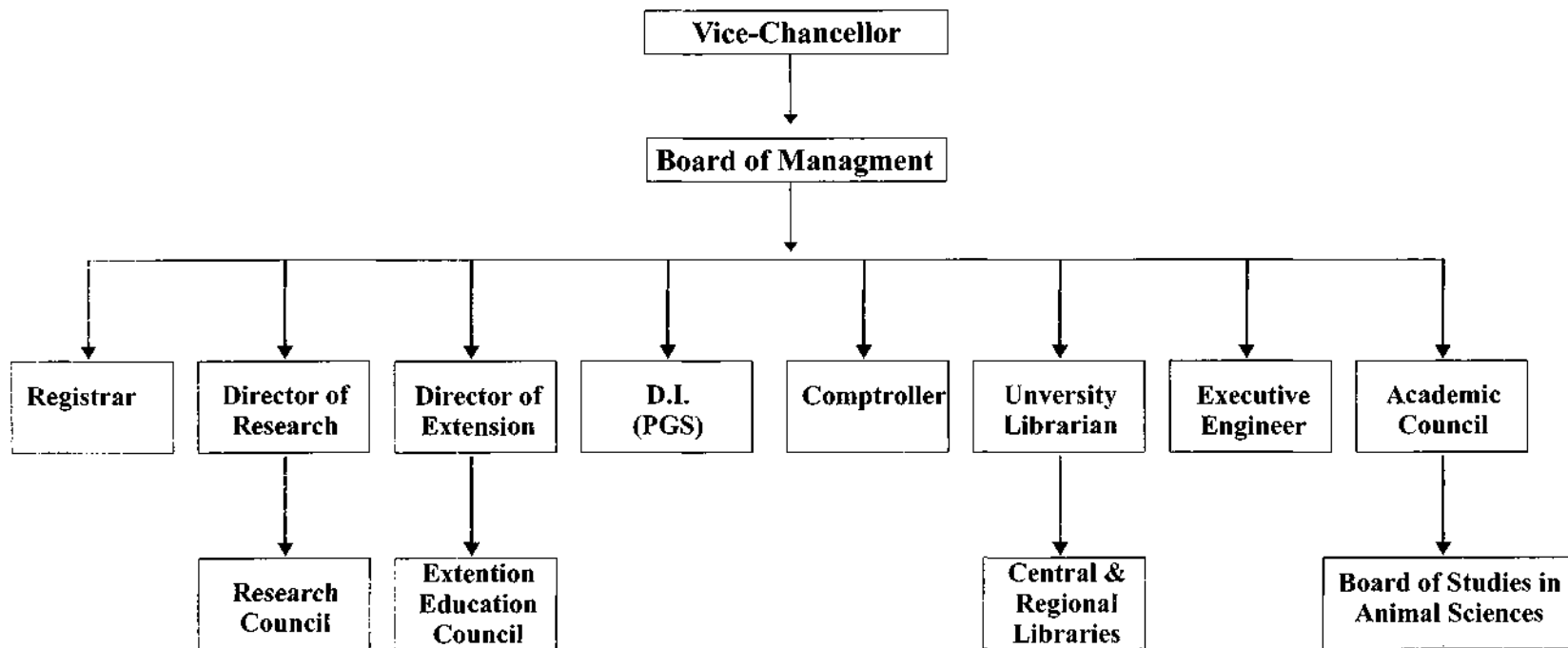
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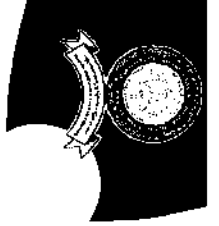
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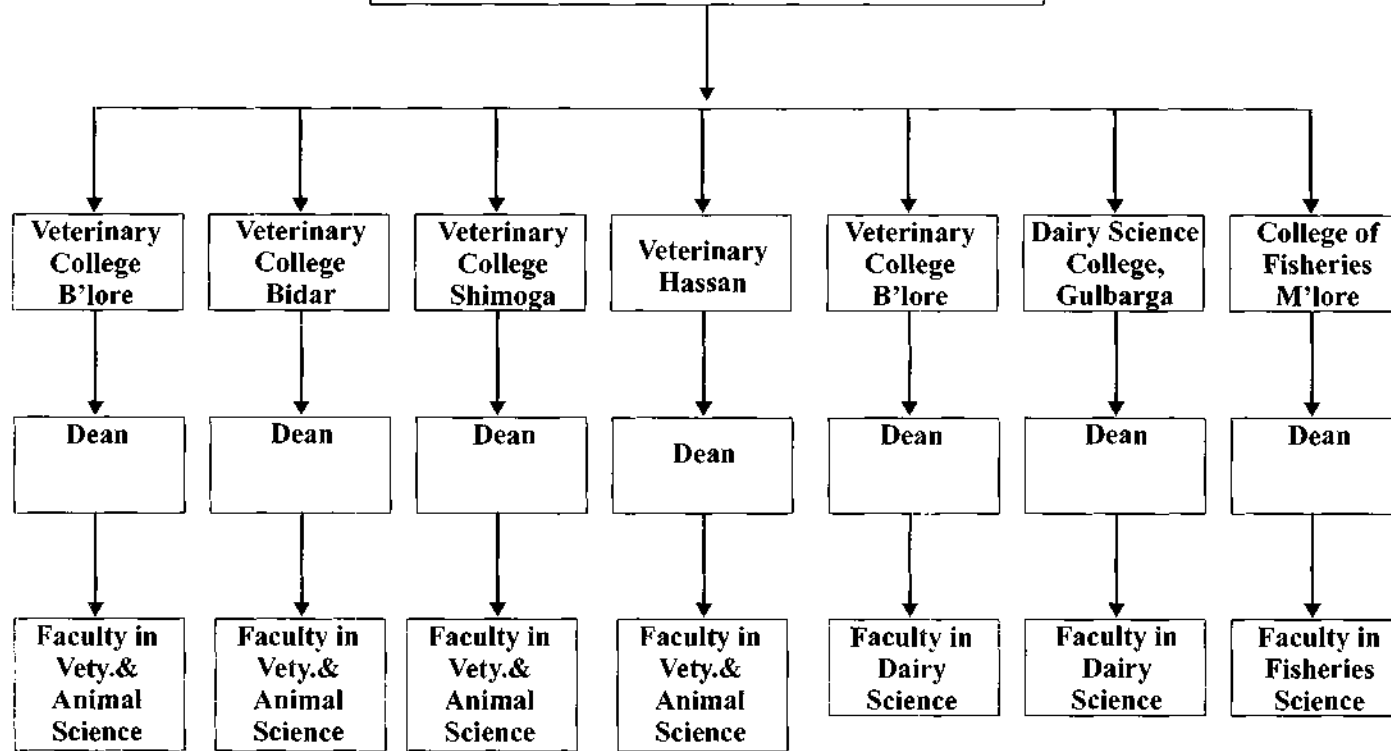
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## ORGANIZATIONAL SETUP





## CONSTITUENT COLLEGES





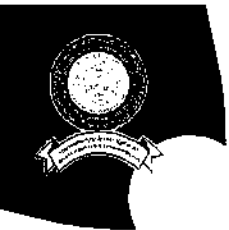
### **Mandate of the University:**

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

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

**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 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**

<i>Members of the 2<sup>nd</sup> Board of Management</i>	
<i>Sl. No.</i>	<i>Name of the Board Member</i>
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	President Karnataka Veterinary Council (VCI)

## **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.
- 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), Hessaraghatta.
- 6) Fisheries Research & Information Center, Hebbal, Bangalore.
- 7) Fisheries Research & Information Center (Marine), Ankola, Uttara Kannada.
- 8) Rural Veterinary Hospital, Yelahanka, Bangalore
- 9) Institute of Wildlife Veterinary Medicine, Kudige, Coorg District
- 10) Livestock Research & Information Center (Canine), Thimmapur, Bagalkot
- 11) Livestock Research & Information Center (Baffaloe), Dornally, Shahapur, Gulbarga
- 12) Fish Seed Production Farm, Shivapura, Koppal (To be taken over / established).
- 13) Livestock Farm, Hessarghatta (To be taken over / established).

### **3. Extension Education Institutes / units**

- 1) Extension Education Centre, Bangalore
- 2) Extension Education Centre, Mangalore
- 3) Extension Education Centre, Bidar
- 4) Extension Education Centre, Hassan
- 5) Extension Education Centre, Shimoga
- 6) Farmers Training Institute, Bidar



### **Officers of the University during the period (2009-10)**

- |   |                                       |
|---|---------------------------------------|
| 1. Vice –Chancellor, KVAFSU, Bidar              | <b>Prof. Suresh, S. Honnappagol</b>   |
| 2. Registrar, KVAFSU, Bidar                     | <b>Dr. M. Devaraj</b>                 |
| 3. Comptroller, KVAFSU, Bidar                   | <b>Sri. R. V. Garag</b>               |
| 4. Director of Extension, KVAFSU, Bidar         | <b>Dr. H. Shivananda Murthy</b>       |
| 5. Director of Research , KVAFSU, Bidar         | <b>Dr. S. M. Usturge (I/c)</b>        |
| 6. Director of Instruction (PGS), KVAFSU, Bidar | <b>Dr. S. M. Usturge</b>              |
| 7. University Librarian, KVAFSU, Bidar          | <b>Dr. H. Shivananda Murthy (I/c)</b> |
| 8. Dean, Veterinary College, Bidar              | <b>Dr. Y. Haribabu</b>                |
| 9. Dean, Veterinary College, Bangalore          | <b>Dr. S. Yathiraj</b>                |
| 10. Dean Veterinary College Shimog ga           | <b>Dr. S. Mallikarjunappa</b>         |
| 11. Dean Veterinary College Hassan              | <b>Dr. M.S. Vasant</b>                |
| 12. Dean, Dairy Science College, Bangalore      | <b>Dr. B. V. Venkateshaiah</b>        |
| 13. Dean, College of Fisheries, Mangalore       | <b>Dr. Y. Basavaraju</b>              |
| 14. Head of Veterinary Science Division         | <b>Dr. Krishna Swamy</b>              |
| 15. Head of Animal Science Division             | <b>Dr. U. Krishna Murthy</b>          |
| 16. Head of Poultry Science Division            | <b>Dr. H. N. Narasimha Murthy</b>     |
| 17. Head of Fisheries Science Division          | <b>Dr. Ramachandra Bhatta</b>         |
| 18. Head of Dairy Science Division              | <b>Dr. Ramachandra Rao</b>            |
| 19. Executive Engineer                          | <b>Sri. M. K. Satish</b>              |

## Executive Summary

The University has completed fifth years of existence and we have attained the status of a full fledged University. Career Advancement Scheme (CAS) of the UGC/ICAR was implemented and promoted teachers from Assistant Professor to Associate Professor and Associate Professor to Professor cadre and backlog notification were made for recruitment of Assistant Professor, Associate Professor and Professor. Further, in Veterinary and Animal Science 37 got Master's Degree and 8 got Doctoral Degree. In Dairy Science 15 obtained Master's Degree. In Fisheries Science 07 have taken their Master's Degree and 02 were with Doctoral Degree. Swine fever (attenuated) vaccine was released by the University.

### Education

Education is a prime concern of the University. The teaching activities were carried out in three major disciplines at five campuses through seven 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 2009-10 and the intake was 521 students, comprising 352 for graduate studies and 145 for postgraduate studies. Among 352 under graduate students, admitted to various degree programmes 254 were for BVSc & AH degree at Bangalore, Bidar, Shimoga and Hassan campuses and 53 for B.Tech (Dairy)

Degree and 45 for Bachelor in Fisheries Science Degree. Out of 146 post graduate students,

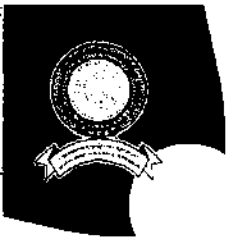
114 for Master's Degree in Veterinary & Animal Science and 10 for MSc. Degree in Dairy Technology and 45 for Master's Degree in Fisheries Science.

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.

### Research

KVAFSU has operated research projects with funding support to the tune of Rs. 1196.17 lakhs in various Colleges, Institutes and Farms. European Commission, Department of Biotechnology and ICAR are our major supporters. Technologies developed by KVAFSU are contributing to improvement of animal health and production of livestock, poultry and fish all over the country. 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 several technologies including 'Punyakoti' test for pregnancy diagnoses, 'Swarnadhara' a dual purpose poultry bird and introduced Russian variety of Common Carp (Amur).

After its establishment the new 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.



In Konehally, Tumkur District, a Livestock Research and Information Centre has been developed with emphasis on Amrithmahal and Hallikar breeds of cattle. The Inland Fisheries Research and Information Centre at Hessaraghatta 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 is being developed for demonstration of shrimp and brackish water aquaculture. At Nagamangala in Mandya district, the LRIC is working on genetic improvements of sheep breeds.

#### **Extension Activities**

The University has established Extension Education Wings (EEWs) at Bangalore, Mangalore, Bidar, Shimoga and Hassan Campuses for transfer of developed technologies to the un-reached farming community. 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 session, awareness programmes, treatment of medical, surgical and reproductive problems at Veterinary Colleges, 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 News Letters and Annual Reports of the University.

Livestock, Poultry & Fisheries Expo 2009 (Januvaru, Kukkata & Matsyamela) was organised at KVAFSU, Bidar Campus during December 18-21, 2009 in a befitting manner as a means of transfer of technology.

Institute of IAH & VB, Bangalore has produced 349.90 lakhs doses vaccines including both bacterial and viral vaccines. It has screened 82905 samples for analysis of various diseases.

The constituent college/ research station were provided diagnosis, treatment, post mortems of livestock and etc., for more than 1,30,500 cases were treated and advise to farmers. The University has organized 30 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.

The University has organized animal health camps / livestock shows and exhibitions, training programmes to farmers and officers of the Central and State Governments. The faculty members participated in training programmes organized by various agencies. The University officials acted as judges in various committees formed at All India Livestock shows. The faculty also delivered Radio talks / TV programmes for the benefit of the farmers. Several popular articles have been published in leading news papers and magazines by the teachers for the benefit of farmers. The farms of this University supplied 463 piglets, 23 sheeps, 125 rabbits, 13.73 lakhs fish fingerlings, 50872 ornamental fishes, 57143 table eggs, 21851 hatching eggs, 6.167 tons feed, 5.0 tons manore, 23 turky birds and 3,450 root slips to the farming community within the State.

**Meetings of Board of Management, academic council and planning  
& works committee held during  
01-04-2009 to 31-03-2010**

<i>Sl. No.</i>	<i>Board of Management Meeting</i>	<i>Date</i>	<i>Place</i>
<b>BOARD OF MANAGEMENT MEETINGS</b>			
1	29 <sup>th</sup> Board of Management Meeting	30 <sup>th</sup> May, 2009	College of Fisheries, Mangalore
2	30 <sup>th</sup> Board of Management Meeting	13 <sup>th</sup> July, 2009	Board Room, KVAFSU, Bidar
3	30 <sup>th</sup> Board of Management Meeting	16 <sup>th</sup> September, 2009	Board Room, KVAFSU, Bidar
4	31 <sup>st</sup> Board of Management Meeting	27 <sup>th</sup> October, 2009	Conference Hall, Veterinary College, Hebbal, Bangalore
5	32 <sup>nd</sup> Board of Management Meeting	4 <sup>th</sup> December, 2009	Board Room, KVAFSU, Bidar
6	33 <sup>rd</sup> Board of Management Meeting	16 <sup>th</sup> January, 2010	Board Room, KVAFSU, Bidar
7	34 <sup>th</sup> Board of Management Meeting	9 <sup>th</sup> February, 2010	Board Room, KVAFSU, Bidar
<b>ACADEMIC COUNCIL MEETINGS</b>			
1	8 <sup>th</sup> Academic Council Meeting	18 <sup>th</sup> April, 2009	Board Room, KVAFSU, Bidar
2	9 <sup>th</sup> Academic Council Meeting	13 <sup>th</sup> October, 2009	Board Room, KVAFSU, Bidar
3	10 <sup>th</sup> Academic Council Meeting	15 <sup>th</sup> January, 2010	Board Room, KVAFSU, Bidar
<b>PLANNING &amp; WORKS COMMITTEE MEETINGS</b>			
1	8 <sup>th</sup> Planning & Works Committee Meeting	12 <sup>th</sup> November, 2009	Board Room, KVAFSU, Bidar
2	9 <sup>th</sup> Planning & Works Committee Meeting	9 <sup>th</sup> February, 2010	Board Room, KVAFSU, Bidar

### 3<sup>rd</sup> Convocation of the KVAFSU

The 3<sup>rd</sup> Convocation of the University was held on January 17<sup>th</sup>, 2010 at KVAFSU Campus, Nandinagar, Bidar, which is the Foundation Day of the University. Dr. S. Ayyappan, Director General, ICAR & Secretary, Department of Agriculture Research & Education, GOI, New Delhi, was the Chief Guest. Dr. S. Ayyappan is an Alumnus of the College of Fisheries, Mangalore. In his Convocation address, he appreciated the efforts of KVAFSU in imparting quality education, carrying out research and extension activities for the benefit of farming community. Focusing towards graduating students, he said "you are graduating from one of the finest Universities and I am sure the education obtained in the precincts of this University will always stand you in good stead and encourage you to serve the humanity at large and the farming community in particular". Quoting the poems by our former President of India Dr. A.P.J. Abdul Kalam, he said "as a young citizen of India, armed with technology, knowledge and love for my nation, I realize, small aim is a crime", "so I have a dream, because dream transforms into thoughts, thoughts result into action and the action results into achieving the mission". He also reminisced his good old student days spent at College of Fisheries, Mangalore during 1970s.



Sri. Revu Naik Belamagi, Hon'ble Minister for Animal Husbandry, Government of Karnataka & Pro-Chancellor of the University presented the degrees, medals and awards on behalf of the Chancellor of the University & Governor of Karnataka. The Hon'ble Minister presented degrees to 188 Undergraduate students, 59 Master students and 14 Ph.D., scholars. Out of which, 7 Undergraduate students, 14 Master students and 4 Ph.D., scholars were awarded with Gold Medals instituted by the University / different organizations / individuals. Research Incentive Awards were also presented to 24 teachers / scientists / officers for procuring and operating extra mural major research projects as Principal Investigators.

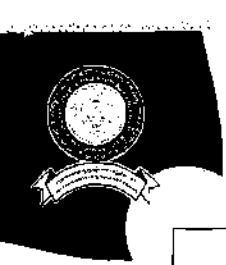
Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU welcoming the Chief Guest, Hon'ble Minister, dignitaries & the gathering, presented a brief report of activities carried out by the University in teaching, research and extension education during the past one year. Hon'ble Members of the Board of Management of the KVAFSU namely, Dr. H. Channegowda, Dr. H. T. Mohan Kumar, Sri. S. P. Putta Buddi, Dr. Gopala Gowda, Sri. Mohappa Karkera and Smt. Shobhavathi Phulare and Dr. M. Devaraj, Registrar; Officers and Deans of the University, faculty, students, senior citizens of Bidar, invitees and guests were present during the occasion.





**Important Meetings attended by the Vice-Chancellor during the period**

<b>Date</b>	<b>Particular</b>
16-04-2009	Chaired the 4 <sup>th</sup> Extension Education Council meeting of the University. Chaired the 10/22 Officers Meeting of the University.
17-04-2009	Chaired the NSS Advisory Committee Meeting of the University.
18-04-2009	Chaired the 8 <sup>th</sup> Meeting of the Academic Council of the University.
19-04-2009	Chaired the 11/23 <sup>rd</sup> Officers Meeting regarding budget utilization and civil works across the University.
05-05-2009	Meeting with Office Bearers SC/ST Association regarding Non -Teaching promotions.
07-05-2009	Meetings with the local officers regarding calendar of events for UG admissions, CAS-96, promotions of Associate Professors, selection committee meeting and service personnel promotions.
27-05-2009	Chaired the 29 <sup>th</sup> Board of Management meeting.
05-06-2009	Participated in the review meeting chaired by the Hon'ble Minister for Animal Husbandry.
09-06-2009	Meeting with OSD -Kudige and Dean Bidar regarding experience sharing one day workshop on "Wildlife Diseases and Management" to be organized on 13-06-2009 at Bidar.
10-06-2009	Attended office and Chaired the 13/25 <sup>th</sup> Officer meeting through video conferencing.
24-06-2009	Participated in the meeting chaired by Hon'ble Minister of Animal Husbandry regarding Amruthmahal Kaval along with district officers and Departments of AH&VS officers.
26-06-2009	Chaired the Tender negotiation meeting attended by Registrar, Comptroller, Executive Engineer and Assistant Engineer.
27-06-2009	Chaired 3 <sup>rd</sup> Sports and Cultural Council Meeting. Interactive meeting on MBA programme along with Registrar, Comptroller, Director of Instruction (PGS) and All Deans.
30-06-2009	Participated in the 50 <sup>th</sup> Inter University Board meeting under the Chairmanship of Hon'ble Minister for Higher Education at Visvesvaraya Technological University, Belgaum.
11-07-2009	Participate in All India Fisheries Mela organized by NFDB.
13-07-2009	Chaired 30 <sup>th</sup> meeting of Board of Management.
24-07-2009	Participated as Chief Guest to inaugurate Bidar District Sports and Cultural Meet for State Government Employees at Nehru Stadium, Bidar.
27-07-2009	Attended office and supervised 2009 -10 UG admission general round counseling through video conference at Bidar and Bangalore.
28-07-2009	Supervised 2009-10 UG admission general round counseling through video conference at Bidar and Bangalore.
30-07-2009	Review meeting of RKVY projects with Dean Veterinary, Director, Head -FRIC and Nodal Officer. Meeting regarding allocation of ICAR development grants to different constituent colleges and farms along with the Deans.



	Attended State Level Sanction Committee meeting of RKVY chaired by Chief Secretary, Government of Karnataka.
03-08-2009	Chaired the meeting with Registrar, Comptroller, Dean and Executive Engineer regarding land issue of Veterinary College Bidar.
04-08-2009	Meeting with Coordinator and Assistant Engineer regarding CRIC-Mudhol.
10-08-2009	Participated at the District level meeting under the chairmanship of Honorable Animal Husbandry Minister at Deputy Commissioner Office, Bidar.
14-08-2009	Chaired the Board of Management meeting, held discussions with Secretary to the Chief Minister regarding developmental works at Veterinary College, Shimoga.
18-08-2009	Chaired the H1N1 influenza awareness programme for the benefit of students and staff of Regional campus.
27-08-2009	Participated in the VI <sup>th</sup> IAUA National Symposium on "Transforming Indian Villages into Knowledge Hub" at University of Agriculture Sciences, Bangalore.
28-08-2009	
04-09-2009	Participated in the National workshop and Extension Education on "Strategies for Veterinary Animal and Fisheries Extension Education for next Decade" alloy with NDRI, Karnal, Director CIFE, Mumbai and other dignitaries at Veterinary College, Bidar.
16-09-2009	Chaired the 30 <sup>th</sup> Continue Meeting of Board of Management.
19-09-2009	Participated in the 22 <sup>nd</sup> Krishi Mela of UAS, Dharwad.
23-09-2009	Participating in the Karnataka Science and Technology Academy Conference at Gulbarga University.
24-09-2009	Participating in the foundation laying function of Canine Research & Information Centre Mudhol by Honorable Chief Minister and other dignitaries.
03-11-2009	Attended office and chaired the meeting of the University officers and discussed regarding the statement made by Board Member Smt. Shobhavati S. Phulare.
12-11-2009	Chaired the 8 <sup>th</sup> meeting of Planning and works Sub Committee.
13-11-2009	Chaired Finance and Extension-Publicity Sub Committee meetings.
14-11-2009	Participated in the Technical meet on "Role of Veterinarian in Rural Economy".
17-11-2009	Chaired the review meeting of RKVY Budget of the University along with local officers.
	Participated in the RKVY Review meeting at Animal Husbandry Secretariat.
23-11-2009	Participated in the meeting of OIE/FAO Global Networks of FMD Reference Laboratories at ICAR.
25-11-2009	Chaired the meeting of office bearers of DRE Employees Association.
01-12-2009	Participated in Karnataka Krishi Mission meeting and held discussions with Dean Veterinary regarding forthcoming International Seminar on "Global Challenges in Veterinary Profession".
04-12-2009	Chaired the 32 <sup>nd</sup> meeting of Board of Management
07-12-2009	Participated in 34 <sup>th</sup> IAUA Vice Chancellors convention and National Seminar on application of Bio-Nano Technology in Agricultural and Animal Sciences at NDRI - Karnal.
	Participated and presented views as a panelist about Bio-Nano Technology applications in Animal Sciences.
	Attended the General Body meeting of IAUA.
08-12-2009	Meeting with the Commonwealth Veterinary Association members.
09-12-2009	Participated in the release programme of the New Biotechnology Policy organized by GOK.

15-12-2009	Chaired the review meeting of different sub committees regarding Expo arrangements.
17-12-2009	Chaired the gold medal awards committee meeting and held discussions with out station Deans regarding various developmental activities.
18-12-2009	Participated in the inaugural function of Agri, Livestock, Poultry and Fisheries Expo-2009 in the presence of Hon'ble Animal Husbandry Minister and other dignitaries.
21-12-2009	Participated in the enquiry proceedings by Regional Commissioner Gulbarga.
23-12-2009	Participated in the inauguration of Global Alumni Meet on "Role of Alumini in Institutional Building".
24-12-2009	Participated in the NAIP Central Advisory Committee meeting at College of Fisheries Mangalore
26-12-2009	Chaired the meeting of all the Search Committee members regarding arrangements for the 3 <sup>rd</sup> Convocation.
04-01-2010	Participated in ASRB Selection Board of ICAR-New Delhi as an Advisor.
09-02-2010	Chaired the 34 <sup>th</sup> meeting of Board of Management.
17-02-2010	Participated in the Vice Chancellor's Conference and interface with ICAR director.
18-02-2010	Participated in Vice Chancellor Committee.
28-02-2010	Chaired the meeting of civil works proposals and progress along with Comptroller, Executive Engineer, Deputy Comptroller and Assistant Engineer.
04-01-2010	Participated in the Savyuva Krishi Mission Meeting and interaction with Srilankan farmer's team.
05-01-2010	Chaired the review meeting of 7 <sup>th</sup> National Congress of ISACP and a seminar on "Novel Approaches in Companion Animal Practice".
12-01-2010	Chaired the review meeting of various sub -committees regarding the arrangements for the 3 <sup>rd</sup> convocation.
15-01-2010	Chaired the 10 <sup>th</sup> meeting of Academic Council of the University.
16-01-2010	Chaired the 33 <sup>rd</sup> meeting of the Board of Management at Board Room, KVAFSU - Bidar.
17-01-2010	Participated in the 3 <sup>rd</sup> Convocation of the University presided by the Honorable Minister for Animal Husbandry and Pro-Chancellor, Dr. S. Ayappan DG -(ICAR) and Secretary (DARE) delivered the Convocation address.
18-01-2010	Chaired the budget meeting involving all the out station officers and farm heads.
19-01-2010	Chaired the budget meeting of involving the local officers.
21-01-2010	Presided over the 7 <sup>th</sup> National Congress of ISACP and National Seminar.
22-01-2010	Participated in the 24 <sup>th</sup> Fishco Festival at College of Fisheries-Mangalore
23-01-2010	Interactive meeting with Dr. Huge White, Director, Centre of Veterinary Education, University of Sydney-Australia and the Secretary Commonwealth Veterinary Association regarding Continued Veterinary Education Programme.
	Chaired the plenary session and valedictory function of National Seminar at Veterinary College, Bangalore.
25-01-2010	Participated in the 10 <sup>th</sup> Annual day celebration of the Millennium Public School & PU College-Bidar.



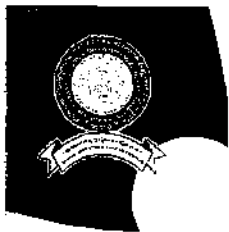
28-01-2010	Chaired the meeting of civil works proposals and progress along with Comptroller, Executive Engineer, Deputy Comptroller and Assistant Engineer.
06-03-2010	Participated in the Karnataka Krishi Mission meeting and presented the RKVY concept notes.
14-03-2010	Participated in the 11 <sup>th</sup> Annual day function of Basavakalyan Engineering College, Basavakalyan.
19-03-2010	Chaired the Annual Technical review meeting of Veterinary Science Research and Extension activities of Veterinary College and IAH&VB -Bangalore
20-03-2010	Chaired the Annual Technical Research and Extension review of Animal Science, Poultry Science and Dairy Science faculty.
	Participated in the valedictory function of "SAMETI" training on Ornamental Fish Production to the officers of Fisheries Department.
24-03-2010	Chaired the Annual Technical review of Research Extension activities of Fisheries faculty.

## II) EDUCATION (Teaching)

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar offers both undergraduate, postgraduate and PhD., degree programme in Veterinary, Dairy and Fisheries Science. The University presently has four Veterinary each one at Bidar, Bangalore, Shimoga and Hassan and two dairy science college at Bidar and Gulbarga and only one fisheries science college located at Mangalore.

### 1. Teaching Institutions

Sl. No.	Teaching Institute with location	Year of Establishment	Name of the Dean	Degree Programmes offered
1	Veterinary College, Hebbal, Bangalore.	1958	Dr.S.Yathiraj	1. B.V.Sc.& A.H 2. M.V.Sc. 3. Ph.D
2	Veterinary College,Bidar	1984	Dr.Y.Haribabu	B.V.Sc. & A.H., M.V.Sc., Ph.D.
3	Veterinary College, Shimoga	2006-07	Dr. S. Mallikarjunappa	B.V.Sc & AH
4	Hassan	2007	Prof. M.S.Vasanth	B.V.SC & A.H.
5	Dairy Science College, KVAFSU, Hebbal, Bangalore	1980	Dr. B.V. Venka teshaiiah	1. B. Tech.(D.Tech.) 2. M.Tech. (Dairy Science) 3. PG Diploma Programme- MBA in Food & Dairy Business
6	Dairy Science College,Gulbarga, camp at KVAFSU, Bidar	2007	Dr. U.S.Biradar	B. Tech (D. Tech)
7	College of Fisheries, Mangalore	1969	Dr. Y. Basavaraj u	B.F.Sc, M.F.Sc & PhD



## 2.No. Of Students Admitted to Ungraduate Programme

Sl. No.	Degree Programme	Year					No. Passed out	College / Institute
		I	II	III	IV	V		
1	B.V.Sc. & A.H.	100	65	54	79	56	66	Veterinary College, Bangalore
2	B.V.Sc. & A.H.	70	46	60	53	46	62	Veterinary College, Bidar
3	B.V.Sc. & A.H.	44	9	30	19	-	-	Veterinary College, Shimoga
4	B.V.Sc. & A.H.	40	4	23	-	-	-	Veterinary College, Hassan
5	B.Tech (D.Tech)	37	26	20	23	-	22	Dairy Science College, Bangalore
6	B.Tech (D.Tech)	16	09	--	--	--	-	Dairy Science College, Gulbarga
7	B.F.Sc.	45	19	17	14	-	28	College of Fisheries, Mangalore

## 3.No. Of students admitted to Postgraduate Programme

Sl. No.	Department	Masters Degree		Ph.D.	
		On roll	Completed	On roll	Completed
<b>A</b>	<b>VETERINARY COLLEGE, HEBBAL, BANGALORE</b>				
1	Vety. Anatomy & Histology	3	3	1	-
2	Vety. Physiology	3	2	-	-
3	Vety. Pharmacology & Toxicology	10	6	3	1
4	Vety. Pathology	14	5	8	1
5	Vety. Parasitology	4	2	2	-
6	Vety. Microbiology	9	5	4	3
7	Vety. Medicine	10	4	1	-
8	Vety. Surgery & Radiology	11	3	-	1
9	Vety. Gynaecology & Obstetrics	10	2	3	-
10	Animal Nutrition	7	1	3	1
11	Animal Genetics and Breeding	3	2	3	-
12	Livestock Production and Management	7	1	2	-
13	Livestock Production and Technology	5	2	-	-
14	Poultry Science	10	2	3	2

<b>B</b>	<b>VETERINARY COLLEGE, BIDAR</b>				
1	Vety.Surgery	2	1	-	-
2	Animal Reproduction ,Gynaecology & Obstetrics	1	-	1	-
3	Animal Genetics & Breeding	1	-	-	-
4	Animal Husbandry & Extension	4	1	-	-
5	Vety.Microbiology	-	1	1	-

<b>C</b>	<b>DAIRY SCIENCE COLLEGE, HEBBAL, BANGALORE</b>				
1	Dairy Chemistry	01	06	01	-
2	Dairy Microbiology	02	01	-	-
3	Dairy Technology	07	08	02	-
<b>D</b>	<b>COLLEGE OF FISHERIES, MANGALORE</b>				
<b>I</b>	<b>Master Degree</b>				
1	Aquaculture	10	1	4	
2	Fishery Microbiology	7	1	3	-
3	Industrial Fishery Technology	11	3	7	1
4	Fish Processing Technology	7	1	4	3
5	Fisheries Environment & Ecology	9	-	2	-
6	Resheries Resources & Management	1	-	-	-

#### 4. Academic Excellence

##### (i) UG Gold Medals Awarded Veterinary College, Hebbal, Bangalore

- Dr. Chetan, A.B., ID.No. VK418, B.V.Sc. & A.H. student was awarded University Gold Medal, Dr. D.N. Vasudeva Mudaliar, Dr. R.F. Patil Memorial, Dr. R.D. Nanjiah Memorial (MSJ), Dr. R.D. Nanjiah Memorial (BSK), Smt. & Sri.M.M. Wadayar, Dr.B.L.Pradeep Memorial, Dr. B.L. Pradeep Memorial, Prof. S.M. Jayadevappa, Dr. Syed Mohiyuddeen Memorial, The Lion's International District 304-S, Sri. R. Gundu Rao F.M. Khan Gold Medal, Karnataka Veterinary Association Gold Medal, Smt. B. Hosahalli Gullamma Gold Medal for his merit in B.V.Sc. & A.H. degree programme in the third Convation of KVAFSU on 17<sup>th</sup> January, 2010.

##### Veterinary College, Bidar

- Dr. R V Patil Gold Medal, Dr. K Y Jaganatha Gold Medal, Dr. K M Karegowda Gold Medal, Smt. B.Hosahalli Gullamma Gold Medal, Karnataka Veterinary Association Gold Medals were awarded to Dr. Divya Gowda M for successful completing her B.V.Sc Y& A.H degree programme with securing Highest OGPA in different subject, the medals were awarded in eve of third Convation of KVAFSU on 17<sup>th</sup> January, 2010.

- Dr. K R Alur Gold Medal Instituted at Vety College Bidar was awarded to Dr Manjunatha Basaraddi for securing Highest OGPA in Anatomy subject of B.V. Sc & A.H. Degree

##### Dairy Science College, Hebbal, Bangalore

- The University Gold Medal, Impressions Dairico Batch of 1993-97 Gold Medal and Silver Jubilee Gold Medal were awarded to Ms. Archana M., for having completed B. Tech. (D.Tech.) undergraduate degree programme with the highest OGPA.
- Dr. (Mrs.) Krishnavenamma & Smt. Kaveramma Gold Medal was awarded to Ms. Archana M., for securing the highest CGPA in Dairy Microbiology.
- Smt. Kanthamma W/o Sri Putta Murthy Gold Medal was awarded to Ms. Thanuja, D., for securing the highest CGPA in Dairy Technology



## (ii) PG Gold Medals Awarded

### **Veterinary College, Hebbal, Bangalore**

- Dr. Dilip, S.M., M.V.Sc. student of Department of Veterinary Pharmacology & Toxicology was awarded University Gold Medal.
- Dr. Usharani, J., M.V.Sc. student of Department of Veterinary Microbiology was awarded University Gold Medal and Dr. R.Eswaran Memorial Gold Medal.
- Dr. Pradeep, B. S., M.V.Sc. student of Department of Veterinary Parasitology was awarded University Gold Medal
- Dr. Roopa Devi, Y.S., M.V.Sc. student of Department of Veterinary Pathology was awarded University Gold Medal
- Dr. Joseph Cyrus, M.V.Sc. student of Department of Veterinary Medicine was awarded University Gold Medal and Smt. S.K. Sowmyanayakamma Gold Medal.
- Dr. Sudarshan, S., M.V.Sc. student of Department of Livestock Products Technology was awarded University Gold Medal.
- Dr. Vinay Kumar, S., M.V.Sc. student of Department of Poultry Science was awarded University Gold Medal and Dr. B.V. Rao, Venkateshwara Hatcheries Ltd., Gold Medal

### **Veterinary College, Bidar**

- Dr. Vinay S M.V.Sc Department of Vety. Microbiology was awarded PG University Gold Medal.

- Dr.Gopala G T M.V.Sc Department of Animal Husbandry & Extension was awarded P G Gold Medal was awarded PG University Gold Medal
- Dr.Asif M Asharaf M.V.Sc Department of Vety. Surgery and Radiology was awarded PG University Gold Medal.

### **Dairy College Science, Hebbal, Bangalore**

- Gold Medal was awarded to Mr. Ponugoti Madhusudhana Rao for securing the highest OGPA in M. Tech. (Dairy Technology).

## (iii) Ph.D. Gold Medals Awarded

### **Veterinary College, Hebbal, Bangalore**

- a. Dr. RAMACHANDRA, Ph.D. student of Department of Animal Nutrition was awarded University Gold Medal.
- b. Dr. SHIVAKUMAR, M.C., Ph.D. student of Department of Poultry Science was awarded University Gold Medal, Sri. H.Sanjeevappa Memorial Gold Medal and John.L.Sebastian Gold Medal.



**5. Academic Research (Postgraduate Research)**  
**Theses Accepted during 2009-10**

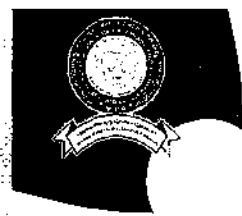
**Veterinary College, Hebbal, Bangalore**

Sl. No.	Thesis Title	Name of the student	Degree	Major Advisor and Dept.
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Hypolipidemic and Antioxidant effects of fenugreek ( <i>Trigonella foenum graecum</i> ) seed and Turmeric ( <i>Curcuma longa</i> ) Rhizome in Diet Induced Hyperlipidemic Rats.	Hemanna Gowda, K.	M. V. Sc	Dr. M. Narayana Swamy, Department of Physiology & Biochemistry
2	Effects of Extracts of <i>Murraya koenigii</i> Spreng. (Curry Leaf) and <i>Morus alba</i> Linn. (Mulberry leaf) on Follicular Development and steroidogenic activity in Rats.	Nandini, M. S.	M. V. Sc	Dr. T. Veena Department of Physiology & Biochemistry
3	Toxicity studies of <i>annona squamosa</i> in rats	Dilip S M	M.V.Sc.,	Dr.N.B.Shridhar Department of Pharmacology & Toxicology
4	Toxicity study of Areca nut extract in rats	Lohith T.S	M.V.Sc	Dr.N.B.Shridhar Department of Pharmacology & Toxicology
5	Pharmacological and subchronic toxicological study of <i>Asteracantha longifolia</i> in rats	Shenbagam	M.V.Sc	Dr.N.B.Shridhar Department of Pharmacology & Toxicology
6	Experimental studies on silk protein material for its effect on wound healing and safety in laboratory animals	Sevrina Rachana D'souza	M.V.Sc	Dr.K.Jayakumar Department of Pharmacology & Toxicology
7	Toxicity studies of norfloxacin, a fluoroquinolone in rats	Rashmi, R	M.V.Sc	Dr.K.Jayakumar Department of Pharmacology & Toxicology
8	Toxicity studies of norfloxacin in broiler chickens	Mohammad Bayer Darmel	M.V.Sc	Dr.K.Jayakumar Department of Pharmacology & Toxicology
9	Studies on pharmacological activities and safety evaluation of deoni cows' urine in laboratory animals	Nirmala G C	Ph.D	Dr.K.Jayakumar Department of Pharmacology & Toxicology
10	Studies on the efficacy of some commonly used acaricides against a common cattle and dog tick species	B.S. Pradeep	M.V.Sc.	Dr.C.Renukprasad Department of Parasitology



11	Studies on the efficacy of some anticoccidial drugs in induced coccidial infections of broiler chickens	Raju Metri	M.V.Sc	Dr.Placid E.D'Souza Department of Parasitology
12	Molecular detection of Brucella infection in livestock and risk groups.	Vivekananda	Ph.D	Dr. Shrikrishna Isloor Department of Parasitology
13	Evaluation of immune response to recombinant DNA vaccine against bovine tuberculosis in calves.	Phaniraja, K.L.	Ph.D	Dr.S.M.Byregowda (IAH & VB) Department of Microbiology
14	Evaluation of bovine mastitis causing <i>S.aureus</i> biofilm based vaccine in rabbits.	Rathnamma, D.	Ph.D	Dr.G.V.Krishnamurthy Department of Microbiology
15	Standardization of milk based ELISA in rabbits immunized with bovine mastitis causing <i>E.coli</i> and <i>S.aureus</i> biofilm vaccines.	Jyothi, H.L.	M.V.Sc	Dr.RathnammaD Department of Microbiology
16	Evaluation of adjuvant activity of heat shock protein fused to FMD virus polyprotein in development of mucosal vaccine.	Usharani, J.	M.V.Sc	Dr. Shrikrishna Isloor Department of Microbiology
17	Immunological evaluation of <i>E.coli</i> biofilm vaccine in cattle.	Chandrashekara, N.	M.V.Sc	Dr. Shrikrishna Isloor Department of Microbiology
18	Standardization of indirect ELISA for seroprevalence of leptospirosis in bovines.	Senthilnathan, G.	M.V.Sc	Dr.RathnammaD Department of Microbiology
19	Amplification and cloning of p <sup>29</sup> gene of <i>Mycoplasma gallisepticum</i> .	Vinay Kumar, Y.L.	M.V.Sc	Dr.B.M.Veeregowda Department of Microbiology
20	Toxicopathology of Chlorpyrifos in chick embryos and its carry over effect in chicks	Roopadevi .Y.S	M.V.Sc.,	Dr.H.D.N.Swamy Department of Pathology
21	Pathomorphological and biochemical evaluation of hypoglycemic effects of <i>Momordia charantia</i> , <i>Gymanema sylvestre</i> in experimentally induced diabetes in rats	Mallikarjuna	M.V.Sc	Dr.Suguna Rao Department of Pathology
22	Pathomorphological and biochemical evaluation of hypoglycemic effects of <i>Eugenea jambolana</i> , <i>Tinospora cordifolia</i> in experimentally induced diabetes in rats	Dhanush Krishna	M.V.Sc	Dr.Suguna Rao Department of Pathology
23	Sequential pathology of bluetongue infection in chick embryos and suckling mice	Manjunath K.P	M.V.Sc	Dr.Suguna Rao Department of Pathology
24	Pathomorphological and biochemical studies on the effect of aged garlic extract in drug induced liver damage in rats	Srikanth	M.V.Sc	Dr.M.L.Satyanarayana Department of Pathology
25	Comparative pathology of ochratoxin and citrinin toxin in broiler chicken	Jayaram	Ph.D	Dr.M.L.Satyanarayana Department of Pathology

26	Impact of infectious bovine rhinotracheitis (BHV-1) and Brucellosis on reproductive performance of dairy cows	Dr.Ravi.K.B	MVSc	Dr.T.G.Honnappa Dept of VOG
27	Effect of oil adjuvant foot and mouth disease vaccination on pre and post freezing semen parameters of HF bulls	Dr.Krishnappa a. B	MVSc	Dr.Chandrashekara murthy Dept of VOG
28	Endoscopic evaluation of gastro-esophageal disorders in dogs	Joseph Cyrus	M.V.Sc.	Dr.S.Yathiraj Dept. of Medicine
29	Clinical and microbiological studies on bovine mastitis	Chethan Kumar G.K.	M.V.Sc	Dr.M.Narayana Bhat Dept. of Medicine
30	Study on hypothyroidism in dogs with dermatological disorders	Sunil Kumar K.M	M.V.Sc	Dr.P.T.Ramesh Dept. of Medicine
31	Studies on erlichiosis in dogs	Sunitha Choudhary	M.V.Sc	Dr.A.Muralidhar TVCSC
32	Comparison of type Ia single and double connecting bar external skeletal fixation for femoral fracture repair in dogs	Dayamon D. Mathew	M.V.Sc.	Dr. L. Ranganath Department of Surgery and Radiology
33	Comparison of stainless steel versus acrylic connecting bar for type Ib external skeletal fixation for tibial fracture repair in dogs.	Nagraju, N.	M.V.Sc.	Dr. B. N. Nagaraja Department of Surgery and Radiology
34	A comparative evaluation of Halothane and isoflurane anesthesia for ovariohysterectomy in bitches.	Nagaraj, M.	M.V.Sc.	Dr. R. Nagaraja Veterinary Clinical Service Complex, Yelahanka
35	Studies on external skeletal fixation for radius fracture treatment in dogs.	V. Mahesh	Ph.D.	Dr. L. Ranganath Department of Surgery and Radiology
36	Effect of feeding frequency and protein, energy or Urea supplementation to sorghum ( <i>Sorghum bicolor</i> ) Stover on the performance of growing Deoni cattle.	Ramachandra	Ph.D.	Dr. K. Chandrapal Singh Animal Nutrition
37	Influence of feeding varying levels of energy on the milk yield and solids-not-fat constituents of milk in lactating cows.	M.Nagesh	M.V.Sc.	Dr. K. Chandrapal Singh Animal Nutrition
38	Comparative study of Growth Hormone gene polymorphism between Malnad Gidda and Ongole Cattle.	S. Vinoth Kumar	M.V.Sc	Dr. M.R.Jayashankar Professor and Head, Dept. of Animal Genetics and Breeding
37	Comparative Efficacy of Bentonite, Spirulina Platensis and Glucomannan Mycotoxin Binders on Aflatoxicosis in Boiler Breeders and Carry over Effects on Progeny Performance	Milad Manafi	Ph.D	Dr. H.N. Narasimha Murthy, Dept. of Poultry Science.
40	Role of Yeast Extracted Nucleotides in Improving the Performance of Broiler Chickens.	Shivakumar M.C.	Ph.D	Dr. H.N. Narasimha Murthy, Dept. of Poultry Science.

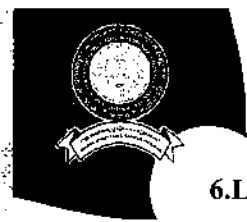


41	Application of PCR in sexing of chicken	Nagmote Swapnil Gunwant	M.V.Sc.	Dr. H.N. Narasimha Murthy, Dept. of Poultry Science.
42	Effect of Replacing Inorganic Source of Zinc and Manganese with Organic Source on Reproductive Performance and Immune Status of Female line of Swarnadhara.	Vinay Kumar. S.	M.V.Sc.	Dr. Jayanaik, Dept. of Poultry Science.
43	Antibacterial efficacy of clove and cinnamon on some food pathogens and acceptability of chicken meat	Shekar Ramesh Rao Badhe	M.V.Sc.,	Dr. Md. Nadeem Fairoze Dept. of LPT
<b>Veterinary College, Bidar</b>				
44	Evaluation of Heat Shock Protein Adjuvanted Vaccine Against the Isolates of Mycoplasma From Respiratory Tract of Poultry.	Santosh Kumar	M.V. Sc	Dr.Y.Haribabu Vety. Microbiology
45	Evaluation of Midazolapam and Diazepam as premedicants for Induction of propofol Anaesthesia in Buffalo Calves.	Mahadevappa Koujalagi	M.V. Sc	Dr. S M Usturge
<b>Dairy College Science, Hebbal, Bangalore</b>				
46	Physico-Chemical and Rheological Characteristics of Yoghurt Enriched with Soy Flour	Prathima. B. K MDK 701	M.Tech.	C.Kempanna. Asso.Prof. Dairy Chemistry
47	Influence of Casein Fractions, their Peptides on Quality of Ice-Cream	Shilpa. V. MDK 702	M.Tech.	Narasimha Murthy Prof.& Head Dairy Chemistry
48	Effect Of Hydrocolloids on the Quality Characteristics of Set Yoghurt Incorporated with Tender Coconut Water – Milk Blends	Swarnalatha. G. MDK 703	M.Tech.	Jayashri.P.Hiremath Asso.Prof. Dairy Chemistry
49	Effect of Chicory Powder and Wheat Bran as Natural Probiotics on the Implantation of Wild Strains of Probiotic Cultures	Vanapartha. Rajesh MDK 705	M.Tech.	R.Prabha, Asst. Prof., Dairy Microbiology
50	Effect of Incorporation of Aloe Vera, Mint And Clove on Physico-Chemical and Sensory Characteristics of Paneer	Chitra. M. K. MDK 706	M.Tech.	H.G.Ramachandra Rao, Prof.& Head, Dairy Technology
51	Studies on the Development of Low-Calorie Probiotic Misti Dahi	Ponugoti Madhusudhana Rao, MDK 707	M.Tech.	B.V.Venkateshaiah, Dean, Dairy Technology
52	Studies on Manufacturing Technique and Marketing of Khoa and Chhana in Unorganized Sector in Bangalore City	Praveen. A. R. MDK 708	M.Tech.	H.G.Ramachandra Rao, Prof.& Head. Dairy Technology
53	Studies On Biopreservation Of Khoa And Paneer Using Lactoferrin	Shashi Kumar. C. S. MDK 709	M.Tech.	D.B.Puranik, Professor, Dairy Technology
54	Development Of Enriched Fruit Yoghurt From Protein Modified Buffalo Milk	Deepthi.T MDK 601	M.Tech.	Venkatesh.M Dairy Technology
55	Development Of Long Shelf Life Enriched Probiotic Lassi	Krishna.M MDK 602	M.Tech.	B.V.Venkateshaiah, Dean, Dairy Technology
56	In-Vitro Studies On The Remineralization Efficacy Of Caseinophosphopeptides (Ccps) On Demineralized Tooth	Nagamani. A. MDK 604	M.Tech.	Jayashri.P.Hiremath Asso.Prof. Dairy Chemistry

57	Development Of Enriched Probiotic Yoghurt	Nagesh Kumar.B.A. MDK 606	M.Tech.	B.V.Venkateshaiah, Dean, Dairy Technology
58	Biochemical Evaluation Of Peroxyacid On Physico-Chemical Characteristics And Shelf Life Of Milk	Shilpa.K. MDK 608	M.Tech.	C.Kempanna. Asso.Prof. Dairy Chemistry
59	Development Of Enriched Yoghurt	Sridhara.T.D. MDK 610	M.Tech.	H.G.Ramachandra Rao, Prof.& Head, Dairy Technology
60	Studies On Evaluation Of Peda And Sandesh For Glycemic Index Values	Shobhamani. B.J. MDK 511	M.Tech.	Narasimha Murthy Prof.& Head Dairy Chemistry
<b>College of Fisheries, Mangalore</b>				
61	"Relationship of faecal contamination with prevalence of <i>Salmonella</i> in seafood"	Deekshit	M.F.Sc.	Dr.M.N.Venugopal Fishery Microbiology
62	"Evaluation of monoclonal antibody based test for the detection of pathogenic <i>Vibrio parahaemolyticus</i> "	Krishna Kumar, B.	M.F.Sc.	Dr.M.N. Venugopal Fishery Microbiology
63	"Meiofauna in relation to sediment characteristics in Mulky estuary, Dakshina Kannada"	Swetha, K.B.	M.F.Sc.	Dr.Gangadhar Gowda Fisheries Environment and Ecology
64	"Occurrence of pathotypes of E.coli in aquatic environment"	Koteswar, B.	M.F.Sc.	Dr.Indrani Karunasagar Fishery Microbiology
65	Studies on Captive Breeding of Olive barb, <i>Puntius sarana</i> (Hamilton)"	Nityanaibedy a Biswal	M.F.Sc.	Dr.N.Basavaraja Aquaculture
66	Studies on Thermal Processing of Tuna-a Comparative study in Conventional Tin can and Tin-Free Steel Cans"	Maheswara, K.J.	M.F.Sc.	Dr.C.V.Raju Industrial Fishery Technology
67	"Studies on virus prevalence and health status of wild and cultured shrimps"	Manjanaik,B.	Ph.D.	Dr.Indrani Karunasagar Fishery Microbiology
67	"Isolation and characterization of bioactive compounds from marine bacteria"	Suresh, T.	Ph.D.	Dr,M.N.Venugopal Fishery Microbiology

<b>Abstract:</b>	I. Faculty of Veterinary & Animal Science	Master	: 37
		Doctoral	: 08
	II. Faculty of Dairy Science	Master	: 15
		Doctoral	: --
	III. Faculty of Fisheries	Master	: 07
		Doctoral	: 02

**Total No. of Master 59 & Doctoral - 10**



## 6. Library Information

### A) Veterinary College and Dairy Science College, Hebbal, Bangalore

The University regional Campus library is located at Hebbal, Bangalore library is having good number of periodicals (Foreign and Indian). The Xerox Service is being provided in the library through private agency for the benefit of students as well as staff. Total of 268 under graduated students are utilizing the library services out which 176 are from B.V.Sc & AH and 92 students belongs to B. Tech (Dairy Technology). 84 number of PG and PhD scholars are getting benefits regional library.

### B) Veterinary College, Bidar

The University library is located at Veterinary College, Bidar Campus. The library has a collection of over 6123 books. Of these, more than 450 books are kept as reference books. Around 400 to 500 basic to advanced books are added every year for the users of the library. Journals are the medium of scientific communication because of its up-to-datedness. The library subscribes around 08 foreign journals and 38 Indian journals and the old journals are hardbound and kept as Back Volumes.

**E-Journals:** In the electronic age, information-seeking process has become so much easier and quicker by e-journals and digital library. Falling in line the western libraries, the Library also has activated on-line access to 350 foreign journals in full text under CeRA Consortium, ICAR). Many more journals will be brought under on-line access in the near future.

### C) Veterinary College, Shimoga and Hassan

The Veterinary College Shimoga and Hassan are newly established colleges both the Campus are having library with good number of collection of book, journal and periodicals.

### D) Dairy Science College, Gulbarga

The Dairy Science College, Gulbarga is also new established college located at northern

part of Karnataka and the library is having more than 2000 books along with periodicals and journal.

### E) College of Fisheries, Mangalore

The only one College throughout the state, library is well established with good number of books, journal and periodicals. Now recently University is planned to create CeRA Consortium facility which helpful for the PG and PhD scholar for the research. Total of 228 students are using the existing facilities. College of Fisheries, Mangalore has organizing book exhibition within Campus.

## 7. Student Welfare Activities

### i. Sports activities

Karnataka Veterinary, Animal and Fisheries Science University, Bidar has organized 5<sup>th</sup> Intercollegiate Athletic Meet 2009-10 on 8<sup>th</sup> October 2009 at Veterinary College, Hebbal, Bangalore, Inter collegiate Table Tennis and Chess competitions were organized at Hassan Veterinary College campus on 7<sup>th</sup> and 8<sup>th</sup> September 2009, the Inter-collegiate Kho-Kho, Kabbadi & Shuttle Badminton Tournament held at Fisheries College, Mangalore during 29<sup>th</sup> to 31<sup>st</sup> October, 2009 and Inter-collegiate Cricket & Volley ball tournament held at Dairy Science College, Bangalore during 1<sup>st</sup> to 5<sup>th</sup> December, 2009. The students of all the constituent colleges were actively participated in the Inter Collegiate Sports meet 2009-10 and Overall Championship was bagged by Veterinary College, Bangalore.

### ii. Youth Festivals / Cultural Activities

5<sup>th</sup> Intercollegiate Youth Festival of KVAFSU organized at Veterinary College, Bidar during 5<sup>th</sup> to 7<sup>th</sup> November, 2009. All the constituent College were enthusiastically participated in different event and the Veterinary College, Hebbal, Bangalore Students won the Overall Championship.

## 8. National Service Scheme (NSS)

### Veterinary College, Hebbal, Bangalore

NSS special camp was organized at Surya Foundation, Dodaballapura During 24th to 30th March 2010. The camp was inaugurated by Prof. S. Yathiraj, Dean, Veterinary College, Bangalore and Dr. Gopala Gowda, Member Board of Management, KVAFSU and Dr. K.C. Veeranna, NSS Co-ordinator, KVAFSU were the chief guests. During the camp the students were trained on various aspects of leadership qualities and personality development. The students were also exposed to various lectures delivered by eminent personalities from different fields.

A special Animal Health Camp was organized on 29.03.2010 at Chellahalli for the benefit of the farmers of the village and the surrounding villages. A total of 540 animals were treated in the camp for various ailments. Dr. V. Chandrashekaramurthy and Dr. S. Wilfred Ruban were the NSS program officers. Ms. T.K. Rashmi was the camp officer.



Students at shramdhana during NSS camp



Guest lecture during NSS camp



Animal Health Camp at Chellahalli during NSS camp



### **Veterinary College, Bidar**

A seven days special NSS special camp was organized at Mutangi village of Humnabad Taluka by the Veterinary College, Bidar. The Chief Guest Dr Suresh S Honnappagol, Hon'ble Vice Chancellor, KVAFSU, Bidar inaugurated the camp by lightening the lamp. Dr Shivanand Murthy, Director of Extension, Dr y Hari Babu, Dean (Vety), Dr U S Biradar, OSD (Dairy), Dr K C Veeranna, NSS Programme Coordinator, Mr. Dharmu Banasi, President and Mr. Narayanarao Bakappa, Gram Panchayat, Mutangi were also present for the programme. In the camp 139 students of BVSc & AH and B Tech students of Veterinary College, Bidar were participated. During the 7 day camp different activities like, animal health camp, plantation, human health check up camp, blood donation, cleaning were carried. In the evening hour screening of movie related to animal husbandry and fisheries activities and addressing village farmer by differ chief guest followed by the culture activities.

The camp was successfully completed at Mutangi village of Humnabad Taluka on 14 March. Dr. M Devaraj, Registrar, Dr K C Veeranna, NSS Programme Coordinator, KVAFS University, Bidar and Dr Govind, Assistant Director (AH & VS), Humnabad were the Chief guests and Dr M K Tandle, Dr Sandip Halmandge, NSS Officers, Veterinary College, Bidar, Mr. Mainuddin, President, SDMC (Urdu), Mr Manik Reddy, President, Youth club, Mr Narayanrao Bakkapp, Vice President, Gram panchayat and Mr Mallikarjun Patil from Mutangi were also present on the occasion. Best NSS volunteer awards were given to the 10 students in recognition for their active and efficient participation in the NSS special camp.

### **Veterinary College, Shimoga**

NSS Annual Special camp was organized at Hosakoppa-Thattekere Village of Shimoga Taluk between 18<sup>th</sup> and 24<sup>th</sup> March, 2010. The camp was organized in a village falling under Malnad Region surrounded by areca plantations and Tunga Channel passing close to it.

Various activities were carried out during the camp keeping in mind the overall development of the NSS volunteers and as well as the farmers. Cleaning of Temple premises, Animal vaccination, camp, Plantation in the school premises, Animal Health camp, Training to women on 'Preparation of milk products', Role of animals in sustainable livelihoods, Sustainable farming, Rangoli and clay modeling training, Training to women on 'Preparation of homemade products', Ghamaka programme were carried out in village during the 7 days period.

### **Veterinary, College, Hassan**

Students actively involved in Campus cleaning, watering to the plants, growing vegetables in the hostel surrounding, plastic picking around the campus and nearby Government Primary Health Centre.

One week NSS camp was held at Mylanahalli village from 2<sup>nd</sup> to 8<sup>th</sup>, May, 2009. Free animal health camp and guest lectures on various topics were covered for the benefit of farmers.



### III) RESEARCH

The University had made substantial progress in Research work keeping in view of the University mandate. At present the University is operating 96 research projects (year 2009-10) with funding support to the tune of Rs. 1196.17 lakhs from the various sponsoring agencies viz. KVAFSU, ICAR, NAIP, MSSP, DBT, GOK, FIST and private companies in various faculties as detailed below.

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.

<i>Sl. No.</i>	<i>Name of discipline</i>	<i>No. of projects</i>	<i>Proposed budget In lakhs</i>
1.	Animal Science	10	29.49
2.	Veterinary Science	35	196.99
3.	Poultry Science	04	105.13
4.	Dairy Science	13	5.58
5.	Fisheries Science	34	858.98
	<b>Total</b>	<b>96</b>	<b>1196.17</b>

Further, the faculties of the University have submitted the new research project proposals to sponsoring agencies for financial support during the financial year 2009-10 as detailed below.

<i>Sl. No.</i>	<i>Name of discipline</i>	<i>Funding Agency</i>	<i>No. of Projects</i>	<i>Proposed budget (Rs. in lakh)</i>
1.	Veterinary Science	DBT, RKVY, UGC, KSWDC, Private companies	18	999.96
2.	Animal Science	NABARD, DBT, CAPART, Private company	04	69.30
3.	Poultry Science	Private company	01	4.60
4.	Dairy Science	DST	02	19.31
5.	Fisheries Science	JSYS, NFDB, DBT, ICAR, NABARD	07	420.55
6.	Integrated farming	DBT	01	39.42
		<b>Total</b>	<b>33</b>	<b>1553.14</b>

- Hon'ble Vice-Chancellor in His address of Research Council meeting suggested to send a proposal for Centre of Advance Studies in Orthopaedics at Department of Surgery and Radiology, Veterinary College, Hebbal, Bangalore based on voluminous research under taken at the Department on Orthopaedics
- It was decided to make more effort to fabricate and popularize low cost milking machines with input from engineering department of Dairy Science College, Bangalore.
- Staffing pattern for Buffalo Breeding Research & Information Center, Dornalli, Shahapur, Dist. Gulbarga and Canine Research & Information Center, Thimmapur, Mudhol, Dist. Bijapur have been created.



- It was resolved to propose one research project for University funding by each faculty. Preference for allocation of University grants will be given to junior faculties based on the proposals from Heads of the Division to the Directorate of Research.
- It was resolved to explore the possibility of developing a Video CDs in Animal Husbandry, Dairy and Fisheries Sciences for the benefit of farmers.
- It was resolved to develop University branded milk and milk products and also

start milk parlour to sell the milk and milk products at Sanjay Nagar and Dairy Science College, Hebbal, Bangalore.

- It was resolved to re-name Fish Seed Rearing Farm, Bhuthnal as Fisheries Research and Information Center (Inland), Bhuthnal, Bijapura. The Research Council approved the proposal of the various technical and non-technical staff position required for the center as mentioned below and was recommended for approval of Academic Council.

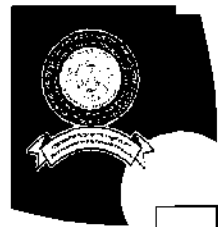
<i>Sl. No.</i>	<i>Name of the Post</i>	<i>Specialization</i>	<i>No. of Posts</i>
1.	Associate Professor & Head	Fisheries Science	01
2.	Assistant Professor (Farm)	Fisheries Science	01
3.	Assistant	As per approved C&R of the University	01
4.	Lab Assistant	-do-	01
5.	Field Assistant	-do-	01
6.	Attender / Messenger	-do-	01
7.	Fishermen	-do-	04
		<b>Total</b>	<b>10</b>

- It was resolved to allocate one time PG research contingency grant @ **Rs.5000/-** and **Rs.10000/-** to senior Master's / Doctoral students respectively. The concerned Dean has to work out and recommend a consolidated list of the students for release of PG research contingency grants as one time assistance duly exempting the PG student from departments having research projects worth Rs.5.00 lakhs and above / ICAR fellowship holders / Graduate Assistantship holders, In-service candidate etc.
- Vision document of KVAFU 2025 has been prepared and the same has been approved by Research council

## 1. Completed Projects

### a. Project details

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	Evaluation of antidiabetic activity of <i>Costus igneus</i> in rats	KVAFSU	10,000-00	2009	2009	Dr.N.B.Shridhar Dr.K.Jayakumar
2	"In-vitro efficacy of Indispron – D110 against ticks, bugs and fleas of domestic animals"	PNP & Associates Pvt. Ltd., Faridabad	Rs.75,000 + Rs,10,000	2009	2010	Dr.Placid E.D'Souza & Dr.C.Renukprasad
3	Seroprevalence of IBR and Brucellosis and its impact on reproductive performance of dairy cows	KVAFSU	Rs.25000	2008	2009	Dr.T.G.Honnappa, Dr.Prabhudas & Dr.M.R.Gajendragad
4	Study on the efficacy of adjunct therapy in conjunction with antibiotic in the treatment of bovine mastitis.	UAS	20.000	2009	2010	M.Narayana Bhat S.Yathiraj H.A.upendra M.C.Anil Kumar
5	Epidemiological studies on parasitic skin infections in canines in and around Bangalore	UAS	25,000	2008	2009	M.C.Anil Kumar M.Narayana Bhat Placid D'Souza H.A.upendra P.T.Ramesh
6	External Skeletal Fixation for femoral Fracture Repair in Dogs DR/SRP/VSc-24/VSR-H08-09	KVAFSU	Rs 40,000	2008	2009	Dr. L. Ranganath Dr. B. N. Nagaraja
7	Clinical Evaluation of Dental Acrylic and Epoxy Putty External Skeletal Fixator for Tibial Fracture in Dogs DR/SRP/VSc-25/VSR-H08-09	KVAFSU	Rs 40,000	2008	2009	Dr. B. N. Nagaraja Dr. L. Ranganath
8	Detection of bacteria of public health significance from milk and milk products	KVAFSU	25.000	2008-09	2008-09	Dr. Leena, G Sharanagouda, B Dr. B. M. Veeregowda
9	Nutritional studies in Lambs fed detoxified castor( <i>Ricinus communis</i> ) bean meal as protein supplement	KVAFSU	15,000	April2009	March, 2010	Dr. T.M. Prabhu Dr. K. Chandrapal Singh Dr. R.G. Gloridoss



10	Evaluation of Morphometric & reproductive traits of Indigenous Goats in Selected villages of Bangalore Rural District	KVAFSU	25,000/-	2008	2009	P.I Dr.R.Jayashree, Dr.M.R.Jayashankar Dr.C.S.Nagaraja Dr.K.Satyanarayana Dr.Y.B.Rajeshwari
11	Effect of two energy levels and two protein sources differing in solubility on milk yield and milk composition in lactating cows	Soybean Association	Rs. 36,000/-	1.10.2008		Dr.U.Krishnamoorthy Dr. R. Bhaskaran Dr.K. Chandrapal Singh
12	Effect of Fibrafid-Ab-Tox and Fibrafid-M on individual and combined toxicities of Aflatoxin, Ochratoxin and T-2 toxin in broilers	Expert Bio products Pvt., Ltd.,	1,20,900	2008		Dr.B. Umakantha Dr.H.N.N.Murthy Dr.K.Venkata Reddy Dr.T.Munegowda Dr. Jayanaik
13	“Effect of type of Silkworm pupae meal and enzyme fortification on performance, lipid profile and immunological status in broilers”	Crescent Traders, Kolar.	25,000	2007	2009	Dr. T. Munegowda Dr. H. N. N. Murthy Dr. B. Umakantha Dr. K. Chandrapal singh Dr. Jayanaik
14	Microbial Evaluation of Market samples of Poultry Meat	KVAFSU	25,000	July 2008	July 2009	Dr. S. Wilfred Ruban Dr. Nadeem Fairoze
15	A Study on Knowledge and Adoption behavior of Livestock farmers of Haniyuru village	KVAFSU, Bidar	Rs. 5000/-	2008	2009	Dr.K.Satyanarayan & Dr. V.Jagadeeswary
<b>Veterinary College, Bidar</b>						
16	Application of interlocking nailing technique for Fracture treatment in calves and goats.	KVAFSU	25000.	2009	2010	DR.B.V.Shivaprakash Dr.D.Dilipkumar Dr.S.M.Usturge
17	Evaluation of effect of <i>Gymnema sylvestre</i> on body weights of broilers	KVAFSU	Rs10000=00	2009	2010	Dr. VijayKumar.M, Dr.Sunilchandra.U & Dr.Vivek.M.Patil,
18	Comparative efficacy of Levofloxacin iand Azithromycin n skin infections of dogs	KVAFSU	Rs 10000=00	2009	2010	Dr.Sunilchandra.U, Dr. VijayKumar.M, Dr.Santhosh.P.S & Dr.Ravindra.B.G

19	Comparative study to ascertain draftability of Deoni and Deoni X HF crossbred cattle.	ICAR, New delhi	24.884 lakhs	2006	2010	Dr. Ashok Pawar Dr. M.M. Appannavar Dr. B. ramchandra Dr. Srikanth kulkarni Dr. Budeppa
20	Mortality pattern of broiler birds in & around Bidar District	KVAFSU Bidar	Rs.15000	2008-09	2009	Dr. D.T.Naik
21	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	16 lakhs	2007	2009	Dr. K.C. Veeranna
22	Sero-prevalence of brucellosis in sheep and goat in & around Bidar	KVAFSU ,Bidar	Rs. 10,000	2009	2009	Dr. Basavaraj Awati, Dr. R. G. Bijurkar & Dr. Mahesh Dodamani
<b>Veterinary College, Shimoga</b>						
23	Evaluation of bioenhancer properties of <i>curcumin</i> on bioavailability of selected therapeutic agents and its ameliorating effects on aflatoxicosis	KVAFSU	Rs. 35000/-	2008-09	2009-10	N. Prakash U. Sunilchandra M. Vijayakumar
<b>Veterinary College, Hassan</b>						
24	Effect of supplementary feeding of multinutrient feed blocks to lactating ewes on body weight dynamics of ewes and nursing lambs	KVAFSU	Rs. 15000/-	10/2008	1/2009	Dr.S.B.Prasanna Dr.U.KrishnaMoorthy & Dr.R.Bhaskaran
<b>Dairy Science College, Hebbal, Bangalore</b>						
25	Economical Method of Preservation of Lactic Acid Bacteria	KVAFSU, Bidar	19,000	July 2008	2009	Dr.R. Prabha & Dr.H.Manjunatha.
26	A study on mechanization of kunda manufacture	KVAFSU	Rs. 40,000	2008	2010	Dr. L.Mahalingaiah Mr.Venkatesh.M



27	Development of Technology for the production of enriched Thermized paneer spread	KVAFSU	Rs. 35,000	2008	2010	Dr. H. Arun Kumar Dr. B. V. Venkateshaiah Dr.H. G. Ramachandra Rao
28	Development of enriched fruit yoghurt from buffalo milk	KVAFSU	Rs. 35,000	2008	2010	Mr. M. Venkatesh. Dr. B. V. Venkateshaiah Dr. H.G. Ramachandra Rao
<b>College of Fisheries, Mangalore</b>						
29	Monoclonal antibodies to Igm of Indian major carp	DBT, New Delhi	16.00 Lakhs	2008	2010	Dr. K. M. Sankar
30	Programme Support on Fisheries Biotechnology	DBT	159,40,906	13-01-05	13-01-09	Dr. Indrani Karunasagar Dr. M.N.Venugopal
31	Development of transgene constructs with antimicrobias peptides genes-and evaluation of their suitability for production of transgenic	ICAR	14,25,040	01.12.05	30-11-08	Dr. Indrani Karunasagar
32	Application of microbial transglutaminase and neutral salts on the gel forming ability of a few selected fish species	DBT New Delhi	21.90 lakh	April 2006	April 2009	B.A. Shamsundar P. Ramesh Kumar
33	Studies on the quality improvement of salted and dried anchovies ( <i>Anchoviella spp</i> ) and Soles ( <i>Cynoglossus spp</i> )	KVAFSU, Bidar	13,000/-	Oct,2008	August 2009	M.H. Bhandary , Prof. (Retd)- co-PI
34	Control of Insect Infestation in Salted and dried fish by use of herbal extract	KVAFSU, Bidar	10,000/-	07-07-08	July 2009	Dr. C.V. Raju Sri. R.M. Prabhu
35	Reproductive biology of Pearlsport from Mulky estuary and estimation of chemical composition of muscle during different maturity stages	KVAFSU, Bidar	13,000/-	01.09.08	31-08-09	Sri.S.R.Somashekar Dr. S.M. Shivaprakash Dr.A.T.Ramachandra Naik Sri.H.N.Anjanayappa

36	Fishery and biology of the Mullet, <i>Liza tade</i> (Forsk.) from Mulki estuary	KVAFSU, Bidar	10000/-	01.11.2008	31-10-09	Shri H.N. Anjanayappa Shri. S.R. Somashekar Dr. Mridula RMendon
37	Exploring Market Opportunities for Fisheries Sector in India : Karnataka	NCAP	2.53 Lakhs	April 2008	June 2009	Dr. Ramachandra Bhatta
38	Study of Fuel Catalyst on Board Fishing Vessel	KVAFSU, Bidar	30,000/-	Oct. 2008	December 2009	Shashidhar H Badami Dr.B.Hanumanthappa Dr. S. Varadaraju

**b. Research Highlights:**

**“Evaluation of antidiabetic activity of *Costus igneus* in rats”**

Salient features of research Findings:

1. Rats weighing 200 g were administered with streptozotocin at the dose of 50 mg/kg ip as a single dose.
2. The diabetes was confirmed with blood glucose estimation with ready to use kits with help of automatic analyzer.
3. The rats with blood glucose >200 mg/dl were grouped into various groups.
4. Group I served as control
5. Group II was given gibenclamide orally (600 g/kg)
6. Group III, IV, V was administered with raw plant leaf 300 mg/kg, 600 and 1000 mg/kg orally for 30 days.

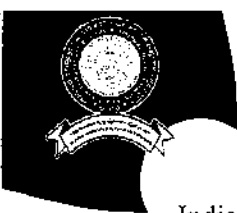
Conclusion: The plant leaf significantly lowered the blood glucose level ( $P < 0.05$ ) compared control group (Group I) at the dose of 600 mg/kg. But when compared to gibenclamide treated it was not significant indicating that the leaf of *Ignus costus* has got antidiabetic activity, but it was not superior to gibenclamide for the dose and duration tested i.e. 45 days.

**“In-vitro efficacy of Indispron D110 against ticks, bugs and fleas of domestic animals”**

The in vitro efficacy of a new compound hexamethyldisilazane a reaction product with silica as 3% aqueous dispersion with the product name Indispron D-110 was evaluated. The action of this product is said to be purely physical and it is classified as a biocide.

Three common tick species viz. *Boophilus microplus*, *Rhipicephalus sanguineus* and *Haemaphysalis intermedia* were collected from cattle, dogs and sheep respectively and reared in the laboratory by using ear bags on rabbits to obtain the different developmental stages. The bed bugs *Cimex hemipterus* were collected from cracks and crevices of buildings, poultry farms and animal shelters and maintained in the laboratory. The fleas, *Ctenocephalides felis* were collected from dogs and cats presented to Veterinary hospitals and were maintained in the laboratory. The test was carried out on round Whatman number 1 (Diameter 11 cm) filter papers placed in petridishes, coated with aqueous dispersion of the Indispron-D110 at three different concentrations viz. 0.5 ml, 1 ml and 2 ml and examined in many replications.

Indispron D-110 showed ovicidal efficacy of 80, 88 and 95% at the concentrations of 0.5 ml, 1 ml and 2 ml respectively against *R. sanguineus* ticks. In case of the cattle tick *B. microplus* 87, 93 and 100% ovicidal efficacy was observed respectively. There was a delayed hatching of eggs in the treated group with the hatching period ranging from 20-28 days compared to untreated controls where the hatching period was 14-18 days in case of *R. sanguineus*. In case of *B. microplus* hatching period in the treatment group was 25-27 days and in the control groups it was 20-22 days. The ovicidal effect of 76, 85 and 91% was observed in the eggs of *Haemaphysalis intermedia* at 0.5 ml, 1 ml and 2 ml of Indispron D-110 with a delayed hatchability period of 18-22 days compared to untreated controls where it was 12-15 days.



All the concentrations (0.5, 1 and 2 ml) of Indispron D-110 revealed 100% efficacy against larvae of *R. sanguineus*, *B. microplus* and *H. intermedia* after 24 hrs of treatment and caused 100% mortality in nymphs of *R. sanguineus* and *B. microplus* ticks, 24 hrs after treatment.

At the concentrations of 1 and 2 ml 100% mortality was observed whereas 90% mortality was found at the concentration of 0.5 ml in adult males of *R. sanguineus* and *B. microplus* ticks.

In the case of adult males of *H. intermedia*, 100% mortality was observed at 2 ml whereas 90% mortality was observed at 0.5 ml and 1 ml of Indispron D-110.

A few ticks of all species under study in the treatment group laid eggs and delayed hatching was also observed but the hatched larvae did not survive for more than 24 hours. In the untreated control group, the ticks laid eggs and hatching of eggs into larvae was also observed which were alive for more than 4 weeks. Indispron D-110 was cent per cent effective against adult engorged females of *B. microplus*, *R. sanguineus* and *H. intermedia*. The acaricidal efficacy of Indispron D-110 on eggs and adult male ticks of the *R. sanguineus*, *B. microplus* and *H. intermedia* ticks was analysed statistically. In eggs of all three tick species there was a significant difference between the concentrations whereas there was no significant difference between concentrations against adult male ticks.

In this study all the concentrations (0.5, 1 and 2 ml) of Indispron D-110 resulted in 100% mortality of *Cimex hemipterus* bed bugs 48 hrs after treatment.

The evaluation against *Ctenocephalides felis* fleas of dogs indicated 100 percent efficacy within 4 hrs of treatment with all the three concentrations of Indispron-110.

#### **“Seroprevalence of IBR and Brucellosis and its impact on reproductive performance of dairy cows”**

23.34% and 6.2% of the crossbred population in a survey of cattle population at Mandya district were found to be seropositive for brucellosis and leptospirosis. These two diseases also accounted for reduced reproductive performance. It was suggested to initiate stringent control measures to control these two diseases in dairy cattle.

#### **“Study on the efficacy of adjunct therapy in conjunction with antibiotic in the treatment of bovine mastitis”.**

A total of 24 Holstein Friesian crossbred dairy cows with clinical signs of mastitis were used for therapeutic trials. Twenty four clinical cases of mastitis cows were randomly assigned to 4 treatment groups as follows Group I Ceftriaxone and tazobactam combination, Group II Ceftriaxone and tazobactam combination with meloxicam, Group III Ceftriaxone and tazobactam combination with vitamin E and selenium combination and Group IV Ceftriaxone and tazobactam combination with tri-sodium citrate. Treatment was followed till the recovery from clinical signs and returning of EC to 6.5 mS/cm after initiation of treatment.

Clinical cases of mastitis treated with ceftriaxone and tazobactam with vitamin E and selenium was found to be superior and recovered in 4 + 0.25 days with reduction in mean EC between 0 and 5<sup>th</sup> day was found to be 45.26 % and reduction in mean SCC was found to be 74.57 %. Mastitis cases treated with ceftriaxone and tazobactam combination with meloxicam recovered in 4.33 days, reduction in EC after 5 days was 43.37% and reduction in SCC after 5 days was found to be 72.4%. Cases treated with ceftriaxone and tazobactam combination with tri-sodium citrate recovered in 6.34 ± 0.42 days of treatment, the reduction in mean EC between 0 to 5<sup>th</sup> days was found to be 34.04 per cent and reduction in mean SCC between 0 to 5<sup>th</sup> day of treatment was found to be 58.23 per cent.

Clinical case of mastitis treated with ceftriaxone and tazobactam combination recovered in 7±0.258 days of treatment, the reduction in mean EC between 0 to 5<sup>th</sup> day of treatment was found to be 33.11 per cent and reduction in mean SCC between 0 to 5<sup>th</sup> day of treatment was found to be 55.51 per cent.

#### **“Epidemiological studies on parasitic skin infections in canines in and around Bangalore”**

Epidemiological pattern of ectoparasitic infections in dogs was understood. Comparative efficacy of various drugs against ticks and fleas were done and most suitable drug amongst them was detected for regular use.



### **“External Skeletal Fixation for femoral Fracture Repair in Dogs”**

External skeletal fixation method of femoral fracture repair is successful and it is a now method of treatment where the affected dogs can walk on the fractured limb within 48 hours after surgery and this method is free from usual complication of fracture disease where the affected limb may become stiff and sometimes short compared to the normal limb.

### **“Clinical Evaluation of Dental Acrylic and Epoxy Putty External Skeletal Fixator for Tibial Fracture in Dogs DR/SRP/VSc-25/VSR-H08-09”**

Type Ib Stainless steel connecting bar external skeletal fixation used in Group I and Epoxy putty external skeletal fixation in used in Group III, had provided better stability, relatively less pain compared type Ib acrylic external skeletal fixation. However, in acrylic type Ib ESF acrylic frames were more prone for auto mutilation in dogs. Epoxy putty external skeletal fixators are economically cheaper than acrylic and stainless steel connecting bars.

### **“Detection of bacteria of public health significance from milk and milk products”**

Collection of Literature, Standardization of methodology, trial work carried out to standardize the methods, 10 Pasteurized milk samples, 10 raw milk samples, 10 flavored milk samples, 10 Curd samples were collected and examined in duplicate for presence of pathogenic bacteria like Total Viable Count, Coliforms, E.coli sp, Faecal Streptocococ, Staphylocococcus sp. Confirmed by cultural characteristics & biochemical tests. Results showed that there was presence of pathogenic bacteria in significant number which can pose threat to health of the consumers, hence the quality of the milk & milk products have to be taken care in all steps starting from point of collection of milk to until milk or milk product reaches consumer.


### **“Nutritional studies in Lambs fed detoxified castor (*Ricinus communis*) bean meal as protein supplement”**

In order to find out the feasibility of feeding the common salt ( 2%, NaCl ) treated Castor (*Ricinus communis*) bean meal (SCBM), ten male non-

descript lambs (3-4 months old;  $11.2 \pm 1.04$  to  $11.4 \pm 0.70$  kg b.wt.) were assigned equally to two dietary treatments in a completely randomized design and respectively fed isonitrogenous and isocaloric concentrate mixtures containing 18 % Groundnut cake (GNC) ( control diet ) and 25 % SCBM ( replacing 100 % GNC-N; test diet ) to meet 80 % of CP requirement along with ad libitum Rhodes (*Chloris gayana*) hay for 90 days. The DM intake (g/d) was 494 & 509 for control and experimental group, respectively. The digestibility of nutrients (except for hemicellulose) and nutritive value in terms of DCP were comparable between two groups. However, the TDN content of two diets was significantly ( $P \leq 0.05$ ) different. (64.13 VS 57.19 % ). The lambs on test diets grew (g/d) at par with those on control diet (68.0 vs 70.2). The efficiency of utilization of DM for live weight gain was also comparable (7.28 vs 7.79) between two groups. Thus, the castor bean meal, after processing with common salt, was found to be satisfactory protein substitute to spare costly groundnut cake protein supplement for economical production.

### **“Evaluation of Morphometric & reproductive traits of Indigenous Goats in Selected villages of Bangalore Rural District”**

The project was under taken in the selected villages of Bangalore Rural District. The villages that were taken for the study were Chellahalli (Bangalore North), Athibele (Anekal Tk), Hanabe (Doddaballapur Tk), Kolleganahalli (Bidadi, Ramnagar Dt), Shivanapura (Hoskote Tk), Kodihalli (Kanakpura Tk), Maadbaal (Magadi Tk, Ramnagar Dt). Totally 31 goat rearers were contacted and the details regarding their goat units was collected. Out of the total 503 goats, morphometric measurements was recorded in 126 goats (61 Females and 65 Males) in less than six months age group, 171 goats (78 Females and 93 Males) in the age group of 6 to 12 months and 206 goats (124 Females and 82 Males) above 1 year of age. The averages of Body weight, Height, Chest girth, Paunch girth, Body length, Ear length and Tail length of the less than 6 months age group was  $7.09 \pm 3.88$ ,  $39.72 \pm 6.37$ ,  $42.73 \pm 8.39$ ,  $43.19 \pm 8.58$ ,  $38.46 \pm 8.43$ ,  $12.28 \pm 1.20$ ,  $12.17 \pm 1.21$  respectively. The same measurements in the age group of 6 -12 months was  $15.08 \pm 5.66$ ,  $49.47 \pm 9.17$ ,  $53.16 \pm 10.27$ ,  $53.65 \pm 11.04$ ,  $47.54 \pm 10.61$ ,  $12.98 \pm 1.04$  and  $12.94 \pm 1.19$  respectively and in the category of more than one year of age the respective measurements were  $29.44 \pm 8.92$ ,  $68.02 \pm 8.43$ ,  $71.00 \pm 8.53$ ,  $71.26 \pm 9.77$ ,  $63.53 \pm 8.26$ ,  $13.91 \pm 1.53$  and  $13.58 \pm 1.45$ . It was found that



42.15% (212) were black in colour, 16.90% (85) was found to be admixture of Black, brown and white colour, 12.72% (64) were Black and Brown in colour and the remaining colours were found to few in numbers.

**“Effect of two energy levels and two protein sources differing in solubility on milk yield and milk composition in lactating cows”**

Feeding low solubility protein (soybean meal) resulted in increase in SNF content and protein content of milk when cows were fed with energy deficient diet. However, when energy intake is adequate, feeding low solubility protein had no effect on protein and SNF content of milk.

**“Effect of Fibravid-Ab-Tox and Fibravid-M on individual and combined toxicities of Aflatoxin, Ochratoxin and T-2 toxin in broilers”**

Salient features of Res. findings: Inclusion of mycotoxin binders Fibravid-Ab-Tox and Fibravid-M, at 0.1% and 0.25% levels was beneficial in preventing individual toxicity of aflatoxin in commercial broilers and has a marginal beneficiary effects on some of the parameters studied in aflatoxin, Ochratoxin and T-2 combined toxicities.

**“Effect of type of Silkworm pupae meal and enzyme fortification on performance, lipid profile and immunological status in broilers”**

The significant difference was observed among the following parameters when compared to control group.

**FCR:** The mean feed conversion ratio (FCR) ranged from 1.80 in diet with 25 per cent replacement of deoiled silkworm pupae meal with enzyme to 2.15 with 25 per cent replacement of full fat silkworm pupae meal with enzyme. However, statistically significant ( $P \leq 0.05$ ) difference was observed between all the treatment groups supplemented with silkworm or deoiled silkworm pupae meal when compared to the control group.

**Meat cholesterol:** There was a significant reduction ( $P < 0.05$ ) in meat cholesterol values in all the treatment groups supplemented with silkworm pupae meal either full fat or deoiled when compared with that of the control. There was numerical reduction in serum LDL concentration in all treatment groups when compared to that of control groups. There was significant ( $P \leq 0.05$ ) increase in serum HDL values in all the deoiled silkworm pupae meal with enzyme when compared to that of control groups.

**Nitrogen digestibility:** There was a statistical ( $P \leq 0.05$ ) reduction in nitrogen digestibility values in all the silkworm substituted groups when compared to that of control groups

**“Microbial Evaluation of Market samples of Poultry Meat”**

Results of the study revealed a highly significant difference ( $P < 0.01$ ) for Total Viable Count, Streptococcus, Staphylococcus, coliform and Salmonella count of chicken meat obtained from different processing conditions, whereas no significant difference ( $P > 0.05$ ) existed between breast and thigh regions except for Staphylococcal count where a significant difference was observed between the thigh and breast muscles. Higher counts were observed in meat obtained from Non Sophisticated outlets irrespective of the sample collection site and chicken meat obtained from poultry processing unit recorded the lowest value. Higher counts were recorded for meat obtained from thigh region compared to breast region, which might be due close proximity of thigh to the point of evisceration and that Salmonella gains entry to the meat due to rupture of intestine and contamination of meat with intestinal contents or due to faulty evisceration.

The percent prevalence of Salmonella spp. in chicken breast muscle from Non-Sophisticated, Moderate Facility, Sophisticated and Processing Plants were 65.71, 48.57, 48.57 and 22.86, respectively and that of thigh muscle were 71.43,

51.43, 48.57 and 25.71, respectively. The results of the study revealed that contamination of meat with *Salmonella* decreased with increase in sophistication of slaughter facility and that thigh muscle were highly prone for contamination compared to the breast muscle irrespective of the processing condition. The higher rate of incidence of *Salmonella* could be attributed to lack of proper cold chains, inadequate power supply, and low levels of hygiene in retail outlets.

#### **“A Study on Knowledge and Adoption behavior of Livestock farmers of Haniyuru village”**

Majority of the livestock farmers had medium to low profile. Majority of the respondents had medium knowledge and medium extent of adoption in dairy management practices, where as low knowledge level and low extent of adoption in sheep, goat and poultry management practices. The characteristics like land holding and milk production were found to be highly significant with the knowledge of livestock farmers on dairy management practices. Possessing sheep and goat was found to be highly with the extent of adoption of improved sheep and goat management practices. Characteristics like family type and family size were highly significant to both knowledge and extent of adoption of poultry management practices.

#### **“Application of interlocking nailing technique for Fracture treatment in calves and goats”**

A new interlocking nailing technique was standardized for tibial fracture repair in clinically affected smaller sized farm animals such as calves and goats. First of all human model of interlocking nails were fabricated by giving measurements of small ruminants to a commercial company and their suitability was tested. Results showed that the sizes of the interlocking nails required in calves ranged from 18 to 22 mm (length) and 9 to 11 mm diameter for tibial bone.

Results also showed that the calves and goats treated with interlocking nailing technique for tibial fractures showed early weight bearing which was as early as 15 days. Lameness was undetectable within two months after fracture repair.

Interlocking device was found to be rigid fixation method of fracture repair and can be adopted for ruminants of body weight upto 80 kg for early weight bearing of fractured legs. The method is cost effective in calves but not in goats.

#### **“Evaluation of effect of *Gymnema sylvestre* on body weights of broilers”**

The result showed that the bodyweights of the control group were higher than treatment group. However the duration taken for achieving Broiler standard Body weight of 2.2 to 2.4kg was On Day 31 In treatment Group and Day 35 in Control Group, indicating that the feed conversion efficiency was significantly higher in treatment group compared to control group. However, the adverse effects of hepatic and renal impairments were more in treatment group. It was concluded that large scale studies were need to be done : to evaluate the effect of drug on improving efficiency and to study the adverse effects.

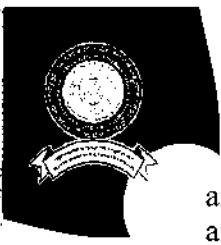
#### **“Comparative efficacy of Levofloxacin and Azithromycin n skin infections of dogs”**

There were no major Hematological changes in either Levofloxacin treated and Azithromycin treated dogs. Minor Elevation of ALT value in Levofloxacin treated dogs indicated the hepatotoxic potentiality of Levofloxacin. Though there no major alterations in Creatinine values of treated dogs with both drug treated groups, it was inconclusive to derive at the conclusion that the drugs were least nephrotoxic. The external adverse effects: GIT disturbances seen were major with azithromycin treated dogs.

Though the data and the number of clinical cases were insufficient to come at a final conclusion with regard to these two drugs; Overall, the findings indicated that Levofloxacin may be a better option and more efficacious in treating bacterial skin infections of dogs.

#### **“Comparative study to ascertain draftability of Deoni and Deoni X HF crossbred cattle”**

- Feeding of Biotin as feed supplementation improves the hoof structure and influence the formation of new epidermis and help in healing of hoof.
- Histological study reveals that corium showed rich in capillaries network and tubular horns and



and inter tubular horn were well organized and showed no or less disintegration of cells organized in the epidermis.

- Higher body animals has significant less fatigue score and lower speed but had significantly higher power out put
- There was significantly lower blood glucose level and significantly increase in lactic acid level in blood after work. However there was no significant change in biotin level.
- Deoni bullocks work for 6 hours with intermittent rest in a day without fatigue and cover 1.05 acre for ploughing, 2.55 acre for sowing and 4.5 acre for harrowing.
- DeoniX HF works for 4 hours with intermittent rest in a day out fatigue and perform 0.72 acre for ploughing, 2.22 acre for sowing and 4.80 acre for harrowing.

**“Mortality pattern of broiler birds in & around Bidar District”**

Post mortem examinations of broiler birds in the department of pathology were systematically conducted. Various organs / tissues revealing characteristic gross lesion were recorded and samples were preserved in 10% formal saline. Tissue samples were processed for routine histopathological studies and descriptions were recorded. During the project period 32 dead broiler birds were examined for diseases / pathological conditions.

The various diseases encountered during the period of project are given in the following table.

Sl.No.	Name of Diseases / Pathological Conditions	Percentage
1	Colisalmonecolosis	18.75%
2	Colibacillosis	18.75%
3	Yolk Sac Infection	3.13%
4	Pneumonia	46.87%
5	Pnuemoenteritis	6.25%
6	Gout	6.25%

**“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”**

- Rs.1.26 lakhs saving
- Income of Rs.11800/- & Rs.3800/-
- 270 man days of employment
- Improvement in socio-economic & Nutritional status
- Means of livelihood for rural poor were created

**“Sero-prevalence of brucellosis in sheep and goat in & around Bidar”**

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

**“Evaluation of bioenhancer properties of curcumin on bioavailability of selected therapeutic agents and its ameliorating effects on aflatoxicosis”**

Curcumin, an active principle of Curcuma longa significantly increase the per-oral bioavailability and plasma elimination half-lives of norfloxacin and atarvastatin in rabbits. Further co-administration of Pulvis Curcuma longa was found to reduce the toxicopathological effects of aflatoxicosis as evidenced by reduced lipid peroxidation, increase in hepatic glutathione levels marked reduction in toxicopathologic changes in liver. Hence curcumin can be exploited as a bio-enhancer to improve the per-oral bioavailability, thus reducing the dose and/or frequency of administration after appropriate dose titration studies. Further, inclusion of turmeric powder is of practical utility in reducing the severity of aflatoxicosis.

### **“Economical Method of Preservation of Lactic Acid Bacteria”**

Enumerated the lactic cultures from locally available fermented milk products such as dahi, yogurt, lassi that showed lactococcal count of 5.00 - 8.25 log<sub>10</sub> cfu/ml; *S.thermophilus* of 0 to 5.45 log<sub>10</sub> cfu/ml and lactobacilli of 5.80 to 8.10 log<sub>10</sub> cfu/ml. The isolates (30) were picked and characterized as *Lactococcus lactis* ssp. diacetylactis (4 nos.); *Lactococcus lactis* ssp. lactis (4 nos.); *Streptococcus thermophilus* (2 nos.); *Lactobacillus delbrueckii* ssp. bulgaricus (4 nos.) and *Lactobacillus acidophilus* (2 nos.) while remaining were slow growers. Among the above cultures, *Lactococcus lactis* ssp. diacetylactis CLC1; *Lactococcus lactis* ssp. lactis NLC1; *Streptococcus thermophilus* YST1; *Lactobacillus delbrueckii* ssp. bulgaricus YLB1 & *Lactobacillus acidophilus* CLB1 were selected based on the direct microscopic count and were preserved by freeze drying and frozen methods. Among these two preservation methods, freeze dried cultures showed less than one log reduction compared to frozen cultures that showed more than one log reduction. The shelf life study will be carried over for another 2 months.

### **“Development of Technology for the production of enriched thermized paneer spread**

Tri sodium citrate (stabilizer) was standardized to 0.5% level to get desired quality. However, added emulsifier does not impart any significant improvement in the product, added ingredients such as WPC & soy solids may have the emulsifying capacity in addition to added nutrients.

### **“Development of enriched fruit yoghurt from buffalo milk**

Among various levels of fat (3, 4 and 5%) used for yoghurt preparation, 5.0 per cent yielded better product. Addition of 0.5 % WPC (0.5, 1.0 and 1.5%) and 10 % mango pulp (5, 10 and 15) to resulted desirable yoghurt with respect to all the sensory characteristics. Yoghurt treated with microwave processing enhanced the shelf life up to 40 days at refrigeration temperature.

### **“Monoclonal antibodies to Igm of Indian major carp”**

A panel of 4 monoclonal antibodies (MAbs) each produced against Igm of Catla and Rohu. These MAbs are used for characterization, detection and

differential of Igm of IMC. ELISA/ Western blot developed using MAbs are being used for evaluation of Vaccine in epidemiology of IMC

### **“Programme Support on Fisheries Biotechnology”**

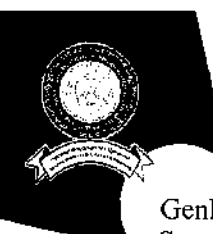
To combat the problem of shrimp larval mortalities due to luminous bacterial disease, bacteriophage therapy was attempted. Eight lytic bacteriophages against *Vibrio harveyi* were isolated and characterized. Over 7000 marine bacteria were screened for their ability to produce antibacterial compounds and a few bacteria with potential were selected for further use as probiotics in aquaculture. Several microsatellites were developed from *Macrobrachium* and submitted to GenBank. They will have potential role in genetic breeding of fresh water prawns

### **“Development of transgene constructs with antimicrobial peptides genes and evaluation of their suitability for production of transgenic fish”**

Cecropin B, antimicrobial peptide gene was isolated from *Bombyx mori*, cloned and expressed in prokaryotic expression vector. The gene sequence has been assigned GenBank accession number EU047749. Purified peptide possessed antibacterial activity against many Gram-positive and Gram-negative bacteria tested. In order to process the peptide by different organelles, to secrete the peptides extracellularly and to prevent the degradation by host peptidases, fusion peptide genes containing the immunoglobulin leader sequence of rohu was developed. A total of 7 transgene constructs were developed with cecropin B gene and in combination with another antimicrobial peptide hepcidin.

### **“Gene Expression in *Penaeus monodon* and *Penaeus indicus* consortium project in relation to microbial infection and environmental stress”**

Antimicrobial molecules from shrimp viz lysozyme, ferritin, glutathione peroxidase, histone subunit, intracellular fatty acid binding protein, crustin-like antimicrobial peptide, anti lipopolysaccharide factor, cathepsin and fortilin were cloned. All sequence generated were submitted to GenBank and accession numbers assigned. The antimicrobial activity of the expressed recombinant molecules was studied. 6000 EST cDNA clones sequenced and deposited in the



GenBank have been assigned accession numbers. Some sequences are observed to have significant function such as antimicrobial activity and gene regulatory action of metabolic pathway. They are available in the genbank for making microarrays by companies.

**“Fishery and biology of the Mullet, *Liza tade* (Forsk.) from Mulki estuary”**

- a. The length weight relationship of *L. tade* did not show significant difference between sexes.
- b. Quantitative and qualitative analyses of the gut contents of *L. tade* revealed that this species mainly fed on decayed organic mater, diatoms and algae indicating a bottom feeding habit.
- c. Study on spawning periodicity of *L. tade* indicated that this species spawned only once in a year over a prolonged period extending from February to july with peak during June. Data on the size at first maturity of *L. tade* using cumulative frequency method showed that male attained first maturity at 210 mm T.L., while for female, the size at first maturity was 220 mm T.L.
- d. The fecundity of fish ranged from 85,962 to 3, 87,294 eggs. The sex ratio of male: female was 1:1.18. There was an overall predominance of female in the population.

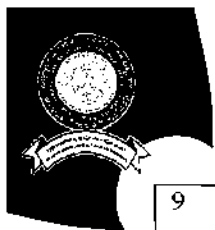
**“Exploring Market Opportunities for Fisheries Sector in India: Karnataka”**

- The share of landings harvested during the monsoon period (peak breeding period) has increased by three times between late 60s and 2007 indicating the destructive fishing practices followed by even traditional fishing units with outboard engines and also mechanized units.
- In the case of bulk sale through auction 10 % of the auction value is deducted towards negotiations and bargaining process. This 10% deduction from the auction value was introduced to recently. The fishers pay 6 % as commission charges to cover the cost of services provided by the commission agent. Hence there is a need to consider notification of fish as a notified commodity under the Market regulation Act

- In the Mangalore fishing harbour around 150-160 tons of fish is sold every day (business) 60 % goes to wholesale (including exporters) and around 40 % is sold to retailers.
- High sales margin of the super stores (30-35%) is eroding the profitability of some of the product ranges and is prohibiting small entrepreneurs to enter and compete with big sellers
- The bar coding, labelling, vendor registration with the super market, positioning of the product and space allocation in the shops, consumer feedback system etc needs expert consultations and small entrepreneurs should be assisted in these areas.
- The packaged dry fish has attracted the attention of sales tax and VAT. Some relaxations for the products produced by the small scale producers/SHGs should be given
- It is important to ensure that a minimum of 10,000 packets are sold every month for the dealer to breakeven.
- Another major hurdle is that the recently Government of India has amended the Prevention of Food (Adulteration) Act which comes into effect from 2009. This requires the change in labelling information, format and other information such as feedback addresses etc. That means we need to invest in additional cylinders to print the packets.
- It is estimated that the unit should have a minimum of Rs. 15,000 turnover for breakeven
  1. After continuous usage on an average, there was 10 ml/hr saving with Fuel catalyst On board fishing vessel.
  2. In the beginning there was 70-80 ml/hr and 60-70 ml/hr saving with Fuel catalyst at laboratory level and On board fishing vessel respectively.
  3. The engine temperature and exhaust temperature were 0.5 to 1.0°C temperature which is was more with the use of fuel catalyst.
  4. Statistical test showed that it is statistically insignificant.

**2. Ongoing Projects**  
**a. Project Details**

<i>Sl. No.</i>	<i>Title</i>	<i>Sponsoring Agency</i>	<i>Budget outlay</i>	<i>Year of Commencement</i>	<i>Principal Investigator and Co- Investigators</i>
<b>VETERINARY COLLEGE, HEBBAL, BANGALORE</b>					
1	RKVY Project on "Modernization of Regional Referral Veterinary Hospital of Veterinary Colleges and Establishment of Technology Transfer Centres" in different Veterinary College of KVAFSU	GOK		2009-10	Dr.S.Yathiraj, Dr.Y.Haribabu& Dr.S.Mallikarjunappa
2	"Eradication of pollution by recycling plastic tea cups and thermocol in the preservation of biological specimens used for teaching and museum purpose"	No:KSPCB/A W/Cell/2008-09/786 Dated 24.03.2009	Rs.3,00,000	24/03/2009	Dr. R.V.Prasad K.V. Jamuna and Ramkrishna V.
3	Evaluation of <i>Mimosa pudica</i> and <i>Tridax procumens</i> leaves for hemostatic properties	KVAFSU	10,000/-	2008	Dr. M. Narayana Swamy
4	Rumination Pattern in different Breeds of Cattle	KVAFSU	5000/-	2008	Dr. T. Veena
5	Effect of Chilly Extract on Membrane Stability of Mammalian and Chicken Erythrocytes <i>in vitro</i>	KVAFSU	2000/-	2008	Dr. G. P. Kalmath
6	Sonographic Evaluation of Fetal Development in Bannur Ewes	KVAFSU	10,000/-	2009	Dr. M. Narayana Swamy
7	Evaluation of assay property of diagnostic kits in dog and cattle	Span Ddiagnostic Ltd, Udhna, Surat, India	Rs.1,08,450	April, 2010	Dr. V. Girish Kumar Dr. V.C. Murthy Dr. NB Shridhar & Dr Kshma
8	Pharmacological and therapeutic evaluation of cattle urine	Government of Karnataka	349.50 Lakhs	February 2007	Dr.K.Jayakumar, Dr.N.B.Shridhar & Dr. A.H.Shuaib



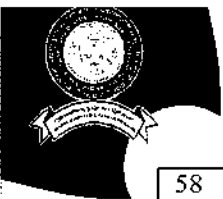
9	Obscure Diseases of Cattle and Buffaloes of Karnataka: Studies on Cause and Cure	Govt. of Karnataka for under Western Ghat Development Programme.	80 Lakhs	April 2007	Dr.N.B.Shridhar, Dr.K.Jayakumar & Dr.A.H.Shuaib
10	Pharmacological and toxicological evaluation of few herbal preparations with a special reference to Astracantha Longifolia and its preparations	Herbal Science Trust, Bangalore	2.40 Lakhs	2009	Dr.N.B.Shridhar Dr. A.H.Shuaib  Dr.K.Jayakumar Dr.A.H
11	Efficacy And Safety Study Of A Herbal Nutraceutical With Special Reference To <i>Pterocarpous Marsupium</i> , Caralluma And Coffee Extract In Rats	BAL Pharmaceuticals, Bangalore	2,53,946-00	2009	Dr.N.B.Shridhar Dr.K.Jayakumar Dr.A.H.Shuaib
12	"Immuno diagnosis of bovine Schistosomosis"	ICAR, CAFT	With the recurring contingency amount of the project.	2010	Dr.Placid E.D'Souza
13	Development of recombinant antigen based diagnostic tools for the detection of avian Mycoplasma infections	DBT	Rs. 38.90/- lakhs	2007-08	Dr. B. M. Veeregowda & Dr. Shrikrishna Isloor
14	Funds for Improvement of Science and Technology (FIST) infrastructure in universities and higher educational institutions"	DST	Rs.33 lakhs	2007-08	Dr.D.Rathnamma & Dr.S.Isloor
15	Bovine Mastitis: Unravelling Molecular details of Host Microbe Interaction & Development of Molecular Diagnostic Methods in collaboration with PD ADMAS, JNCASR & IVRL.	ICAR NAIP,	Rs.40 lakhs	2008-09	Dr. Shrikrishna Isloor
16	Studies on Bact -erial pathogens associated with Piglet Mortality	KVAFSU	Rs. 25,000/-	2008-09	Dr. Sharada. R, Dr. KavithaRani, Dr. S. B. Prasanna
17	Evaluation of safety, potency and virus titres of Marek's disease live bivalent vaccine HVT+SB-1	M/s Indovax private Ltd. GURGAON	Rs. 3,86,342/-	2009-10	Dr. B.M. Ve eregowda Dr. Rathnamma D Dr. M.L.Sathyararayana Dr. Suguna Rao
18	Studies on Immunotoxicity of T-2 toxin in chick embryos	KVAFSU	Rs 35000/=	2008	Dr.H.D.N Swamy, Dr.ML Satyanarayana & Dr. Suguna Rao



19	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
20	Pathology of bluetongue virus infection in chick embryos	KVAFSU	Rs.20,000	2008	Dr. Suguna Rao Dr.ML Satyanarayana Dr.H.D.N Swamy, Dr.Kavitha Rani
21	Funds for Improvement of infrastructure in Para-clinical Division	Dept of Science & Technology, Govt of India	Rs.3300000 /=	2008	Dr.M.L Satyanarayana
22	Outreach programme on Zoonotic diseases	ICAR, India	Rs.75 lakhs	2009	Dr.M.L.Satyanarayana Dr.Leena Dr.Suguan Rao, Dr.Srikrishna Isloor
23	Screening of breeding bulls semen for venereally transmitted mycoplasma and ureaplasma	KVAFSU	Rs. 40,0000	2008-09	Dr.Chandrshekara Murthy
24	Effect of Assisted parturition on Hematological and serum biochemical parameters in cattle	KVAFSU	Rs.20000	2008-09	Dr.G.Sudha Dr.A.Krishnaswamy Dr.V.C.Murthy
25	Characterization of bacteria associated with pyoderma in dogs with emphasis on treatment	Gangagen Biotechnologies Pvt.Ltd,	1,26,500	2010	S.Yathiraj M.Narayana Bhat C.Ansar Kamran Deepti.B.R
26	Study on mycoplasmosis in sheep in and around Bangalore	KVAFSU	15.000	2009	M.Narayana Bhat M.C.Anil Kumar D.Rathnamma
27	Epidemiological and therapeutic aspects of <i>Ancylostoma caninum</i> in dogs.	KVAFSU	5,000	2010	H.A.Upendra A.Muralidhar Placid D'Souza C.Ansar Kamran
28	Prevalence of Cryptosporidiosis in pups	KVAFSU	5,000	2009	H.A.Upendra A.Muralidhar Placid D'Souza S.Yathiraj
29	Assessment of immunity in new born calves	KVAFSU	10000	2010	P.T.Ramesh C.Ansar Kamran M A Kshma
30	Early diagnosis of renal failure in dogs	KVAFSU	10000	2009	C.Ansar Kamran S.Yathiraj H.A.upendra B.R.Deepti M A Kshma
31	Studies on total protein and fibrinogen as indicators of inflammation in cattle	KVAFSU	20,000	2009	B.R.Deepti S.Yathiraj H.A.upendra M.L.Sathyanarayana
32	Studies on epidemiological aspects and antibiotic sensitivity pattern of joint ill infection in calves	KVAFSU	15000	2010	M.C.Anil Kumar R.Rathnamma P.T.Ramesh H.A.upendra

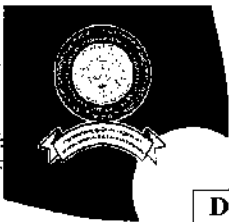
35	Comparison of laparoscopic endo-loop suture and laparoscopic endostapling method of ovariohysterectomy under sevoflurane anesthesia in female dogs	KVAFSU	50,000	Proposed in the Research council meeting 2010 approval letter not yet received	Dr. L. Ranganath Dr. B. N. Nagaraja Dr. C. Vijaya Raghavan
36	Modified segmental spinal fixation for vertebral body fractures in dogs	KVAFSU	20,000	-do-	Dr. B. N. Nagaraja Dr. M. S. Vasanth Dr. L. Ranganath
37	Locking plate system for tibial fractures management in dogs	KVAFSU	30,000	-do-	Dr. B. N. Nagaraja Dr. M. S. Vasanth Dr. L. Ranganath
38	C arm assisted modified spinal arch external skeletal fixation for the stabilization of spinal vertebral body fractures in dogs	KVAFSU	50,000	-do-	Dr. B. N. Nagaraja Dr. M. S. Vasanth Dr. L. Ranganath
39	Clinical evaluation of spinal stapling technique for spinal fractures in dogs	KVAFSU	20,000	-do-	Dr. B. N. Nagaraja Dr. M. S. Vasanth Dr. L. Ranganath
40	Influence of dietary zinc supplementation on the yield and composition of milk in lactating dairy cows	KVAFSU, Bidar	25,000/-	April, 2009	Dr. K. Chandrapal Singh Dr. U. Krishnamoorthy
41	Effect of supplementation of surfactant and cellulolytic enzymes on the performance of growing small ruminants fed with urea treated roughage	KVAFSU, Bidar	25,000/-	April, 2009	Dr. R.G. Gloridoss Dr. K. Chandrapal Singh Dr. T.M. Prabhu
42	Development of low-cost supplementary feeding for grazing sheep and its effect on growth performance and nutrient excretion	KVAFSU	Rs. 10,000/-	November 2009	Dr. U. Krishnamoorthy
43	Effect of supplementation of cellulolytic enzymes and probiotics in growth performance and immune response in broiler rabbits.	KVAFSU	Rs. 30,000/-	Oct 2009	Dr. Y.B. Rajeshwari
44	AICRP on Poultry Breeding for Meat	ICAR	60.72	1971	Dr. H. N. N. Murthy Dr. B. Umakantha Dr. Jayanaik
45	Effect of Prebiotic supplementation in commercial broilers	KVAFSU	Rs. 20,000=00	2009	Dr. Malathi. V Dr. H. N. N. Murthy Dr. B. Umakantha Dr. H.A. Upendra Dr. K. Venkata Reddy Dr. Leena. G

46	Stabilization of Poultry slaughter byproducts using acid and their effectiveness	KVAFSU	20,000	July 2009	PI- Dr. Nadeem Fairoze Co-PI- Dr. S. Wilfred Ruban
47	Training needs of Haniyuru and Soluru livestock farmers	KVAFSU, Bidar	Rs. 15,000/-	2009	Dr. V.Jagadeeswary & Dr.K.Satyanarayan
<b>Veterinary College, Bidar</b>					
48	Livelihood Security through Resource & Entrepreneurship Management in Bidar Dist	ICAR New Delhi	194.43 Lakhs	2008	Dr. K.C.Veeranna
49	Detection of pathogenic micro organisms in the foods of animal origin in Hyderabad_ Karnataka region.	KVAFSU	25,000/	2008	Dr. Pradeep Kumar, Dr. B. Jagannatha Rao Dr. Y. Haribabu
50	Pathological studies on female reproductive track of sheep in & around Bidar	KVAFSU Bidar	Rs.10000	2009	Dr. D.T.Naik
51	"Studies on prevalence of Gastro-intestinal parasites of Dogs in Bidar"	KVAFSU, Bidar	Rs. 8000/-	2009-10	Dr. P.M. Thimmareddy Dr. N.A. Patil & Dr. Mahesh Doddamani
52	Livelihood Security through Resources and Entrepreneurship Management in Bidar District	NAIP, ICAR	2.01 Crores	2008	Dr. K.C. Veeranna
53	Identification and documentation of Ethno-Veterinary Practices in Bidar district	KVAFSU, Bidar	30,000	2008	Dr. Shivakumar K. Radder, Dr. K.C. Ve eranna
54	In vitro efficacy of Charmil plus gel and Charmil plus spray against some pyogenic bacteria and fungi	M/S Ayurved Ltd.	44000	2010-11	Dr. R. D. Padalkar Dr. B. Awati Dr. M.D. Surangi & Dr. N.V. Jadhav
55	Studies on physiological responses of Kenguri sheep during different seasons under two managerial practices.	KVAFSU, Bidar	5000.00	2009	Dr. M.G.Manjunath Dr. Shrikant Kulkarni Dr. Vivek M Patil & Dr. Prashant Waghmare
56	Studies on normal hematological and biochemical profile of Deoni cattle	KVAFSU, Bidar	20000.00	2009	Dr. Shrikant Kulkarni Dr. Santosh Sarangamath Dr. Kotresh A M Dr. Ravindra Bhoyar & Dr. M.G.Manjunath
57	"Haemato-biochemical and therapeutic studies in hemoglobin urea in cattle and buffaloes"	KVAFSU, Bidar	30,000=00	2009	Dr.N.A.Patil & Dr. Vivek R Kasaraliker.



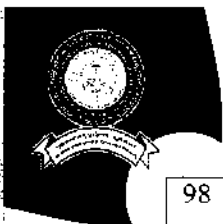
58	“Metabolic profile test as indicators of susceptibility to production disease in medium and high yielding buffaloes in and around bidar”	KVAFSU, Bidar	30,000=00	2009	Dr. Vivek R Kasaralika. & Dr.N.A.Patil
59	Monitoring helminth infestations in goats	KVAFSU, Bidar	13000=00	2009	Dr. Sandeep Halmadage & Dr. Santosh PS Dr. PMT Reddy
60	Monensin as antibloat therapeutic agent in ruminants	KVAFSU, Bidar	15000=00	2009	Dr. Ravindra Bhojar & Dr. Vivek R. Kasaralika Dr. Shrikant Kulkarni
61	Efficacy of prophylactic feeding of ‘Cow magnet’ for prevention of TRP	<b>Extra-mural funding</b> by Sneha Industries, Hubli	11000=00	2009	Dr. Vivek R. Kasaralika & Dr. NA Patil, Dr. BV Shivaprakash, Dr. Dilipkumar, Dr. Bhojar, Dr. Santosh PS Dr. Sandeep H
62	Efficacy of herbal teat dip in subclinical mastitis	<b>Extra-mural funding</b> by Ayurved limited, Himachal Pradesh	35000=00	2009	Dr. NA Patil & Dr. Bhojar, Dr. Santosh PS and Dr. Sandeep H
63	Clinico-therapeutic evaluation of AV/SDS/16 and AV/DAC/16 in various digestive disorders and restoration of normal function	<b>Extra-mural funding</b> by Ayurved limited, Himachal Pradesh	35000=00	2009	Dr. Vivek Kasaralika & NA Patil Dr. Bhojar, Dr. Santosh PS and Dr. Sandeep H
64	“Comparative efficacy of intrauterine herbal and other antimicrobial agents in buffaloes with RFM”	Ayurved Ltd, New Delhi	Rs.57,200/-	2007-08	Dr S S Honnappagol Dr. M.K. Tandle, Dr Y Hari Babu, Dr. S.D.Sonwane, Dr. Bijurkar and Dr. Prashant Waghmare.
65	Efficacy of zanocin in to two different dose rate for treating repeat breeding bovines	KVAFSU	Rs. 15000/-	2008-09	Dr. R. B. Dhabale, Dr.Basavarai Awati, Dr.M.K.Tandle Dr.S.D.Sonawane, Dr.R.G.Bijurkar and Dr.Mahesh.S.Dodamani
66	3.“Comparative study on Ovsynch and Cosynch estrus synchronization protocol in Deoni cows.”	KVAFSU	Rs. 15000/-	2009-10	Dr. M.K. Tandle, Dr S S Honnappagol, Dr M S Dodamani, Dr. Satish Biradar, Dr. S.D. Sonwane and Dr. R.G. Bijurkar

67	4. "Efficacy of Ciprofloxacin and Tinidazole combination in treating repeat breeder buffaloes."	KVAFSU	Rs. 10000/-	2008-09	Dr. M.K. Tandle, Dr. R. B. Dhabale, Dr. S.D. Sonwane and Dr. R.G. Bijurkar, Dr M S Dodamani, Dr Y Hari Babu, Dr. Basavarai Awati.
68	5. "Studies on Pregnancy diagnosis using ultra sound in caprine"	KVAFSU	Rs. 5000/-	2009-10	Dr. S.D. Sonwane Dr. R.B. Dhabale, Dr. M.K. Tandle, Dr. R. G. Bijurkar & Dr. M.S. Dodamani
69	5. "Studies on reproductive traits in Kenguri sheep"	KVAFSU	Rs. 5000/-	2008-09	Dr. R. G. Bijurkar, Dr. R.B. Dhabale, Dr. M.K. Tandle, Dr. S.D. Sonwane, Dr. M.S. Dodamani and Dr. Prashant Waghmare
70	Effect of Janova and Minitrus and Exapar on the post partum anoestrus	KVAFSU	12000	2008-09	Dr. M.S. Dodamani, Dr. M.K. Tandle & Dr. S.D. Sonwane
71	Preparation of Pickled Hen Product & its Quality Assessment	Univ funded	25,000	July 2009	Dr. B. Jagannath Rao. Dr. Pradeep Kumar. Dr. V.M. Patil
<b>Veterinary College, Shimoga</b>					
72	Piggery Development in Karnataka	RKVY	Rs. 54.85 lakhs for 2009-10	January 2009	Dean, Vety. College, Shimoga and Dr. V. B. Shettar, Asst. Prof. (S.G.)
73	"Studies on the effect of curing and combinations of flour on quality of enrobed chicken"	KVAFSU	10,000/-	July 2008	Dr. Chidanandaiah
<b>Veterinary College, Hassan</b>					
74	Effect of milk quality at the different levels of milk handling of villages of Hassan Milk Union	K.V.A.F.S.U	Rs. 25,000/-	2009	Devarajanaika.H
75	Characterization of PrP gene in Kenguri sheep	K.V.A.F.S.U	Rs. 30,000/-	2009	Dr. G.S. Naveen kumar
76	To study the morphological changes of prenatal follicles of buffalo preserved in coconut water solution (CWS) at different temperature and time	K.V.A.F.S.U	Rs. 40,000/-	2009	Dr. Lakshmeshree



Dairy Science College, Hebbal, Bangalore					
77	Use of Bacteriocins from Lactic Acid Bacteria for Biopreservation of Traditional Dairy Products	KVAFSU	8.56 Lakhs	2006	Dr. D. B.Puranik, Dr. G. S.Bhat & Dr. B A. Shamasunder
78	Formulation of spray dried Fruit juice-milk blends and utilization in preparation of some dairy products	KVAFSU	Rs. 20,000	2009	PI: Dr. H. G. Ramachandra Rao Dr. B. V. Venkateshaiah & Dr. D. B. Puranik
79	Development of Technology for the production of Rassogolla utilizing modified soymilk	KVAFSU	Rs.40,000	2008	Mr. B. Shranagouda Patil Dr. B. V. Venkateshaiah Dr. H. G. Ramachandra Rao Dr. H. M. Jayaprakasha
80	Process optimization for production of pro-biotic Aamarkhand- A traditional Fermented milk product	KVAFSU	Rs.20,000	2009	Dr. D. B. Puranik & Dr. H. G. Ramachandra Rao
81	NRC on equine including Veterinary type culture (Dairy Microorganisms)	NDRI, Karnal	Rs. 2.2 lakhs	30.1.201 0	Dr. R. Krishna Dr. H. Manjunatha Dr. R. Prabha & Mr. B.Ramachandra
82	Enhancement of fermentation of batter by using Solid State fermentation cultures	KVAFSU	Rs. 30,000	July 2008	Dr.H.Manjunatha Dr. R. Prabha
83	Development of Need Based Biological Filter for dairies	KVAFSU	Rs. 30,000	July 2009	Dr.R.Prabha Dr.R. Krishna Dr.H.Manjunatha Mr.B.Ramachandra
84	Screening of milk samples available in the University Dairy Farm for the presences of antibacterial substances, their identification & effect on the growth of Lactic Acid Bacteria.	KVAFSU	Rs. 50,000	July 2008	Mr.B.Ramachandra Dr.R.Prabha
85	Survey of cattle market in kolar District in Karnataka	No.:DR/SRP /DSC-5/09- 10	Rs 30,000	2008	Dr. Sachindra Babu. A
86	Computerization of Academic unit of Dairy Science College	KVAFSU.	Rs 10,000	2009	Mr. Krishnappa Mr. Sudheendra Deshpande
87	Evolving a Training Module for Sustainable Livestock production and Management practices by Women Self Help Groups in Devanahally	2-6630/DAC 300 -	Rs 15,000		Dr.E. Narayanappa

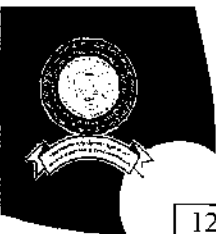
<b>College of Fisheries, Mangalore</b>					
88	A Value chain in production and utilization of Indian major carps and prawn from aquaculture system	ICAR-NAIP New Delhi	4.07	22-09-2008	Dr. K.M. Shankar Dr. B.A. Shamsundar & Dr. Ramachandra Bhatta
89	Enhancing production through management of the traditional Paddy Cum Shrimp culture systems for improved Income and Livelihood of the Farmers in Uttara Kannada District, Karnataka	RKVY	25.00	Feb. 2009	Dr. KM Shankar Dr. Iqbal Ahmed DR. Ramachandra Bhatta
90	Production and marketing of "farmer level RapiDot for detection of white spot virus	KVAFSU	10.00	2006	Dr. K.M. Shankar
91	Biofilm of bacterial pathogen as a novel oral vaccine for aquaculture - further evaluation and standard - Platform on fish and shellfish vaccine development	DBT - New Delhi	26.35 Lakhs	October 2009	Dr. K.M. Shankar Dr. K.S.Ramesh
92	Improvement and propagation of indigenous fish for economic improvement of farmers	RKVY	2.84 (31.02)	January 2009	Dr. N Basavaraja Dr. Y. Basavaraja, Dr. Keshavappa Dr. K.S.Ramesh
93	Production of all-male population of ornamental fishes through application of aromatase inhibitor	DBT (Govt. of India)	21.91	Oct. 2009	Dr. N Basavaraja Dr. Y. Basavaraja Dr. K.M.Shankar
94	Ornamental fish culture for rural livelihood, self employment and poverty alleviation	RKVY	10.85	Feb.2009	Dr. EG Jayaraj Dr. KS Ramesh
95	DBT - Gene Expression - "Gene expression in <i>Penaeus monodon</i> and <i>Penaeus indicus</i> in relation to microbial infection and environmental stress"	DBT	76.05	2005	Dr. Indrani Karunasagar Dr. R.B Narayanan
96	DBT - Indo -Australian - "RNA interference (RNAI) as an antiviral mechanism against hepatopancreatic parvovirus (HPV)"	DBT - Indo -Australian	38.75	2007	Dr. Indrani Karunasagar
97	Molecular genetic characterization of Salmonella strains associated with sea foods with particular emphasis on virulence associated and environmental fitness genes	DBT (GOI)	39.50	2007	Dr. Indrani Karunasagar



98	DBT Programme Support for Research in aquaculture and marine biotechnology	DBT	15.92	29-08-07	Dr. Indrani Karunasagar Dr. M.N. Venugopal
99	DBT – Bioinformatics – “Distributed Information Sub Centre (DISC)”	DBT	90.00	2002-2008 (Ext. till 2012)	Dr. Indrani Karunasagar Dr. M.N. Venugopal Mlathi Sheker
100	“Use of Molecular Techniques to study the relation between Dinoflagellate blooms, cysts and vibrios and toxic phytoplankton and mitigating the effects of harmful algal blooms in the Arabian sea	SIDA	3.00	01.12.2005	Dr. Indrani arunasagar Dr. M.N. Venugopal
101	Indo Norwegian platform for fish and shellfish vaccine development - Development and evaluation of bacterial vaccines for finfish	DBT (GOI)	27.21	24 <sup>th</sup> August, 2009	Dr. Indrani arunasagar Dr. M.N. Venugopal Mlathi Sheker
102	Ecological monitoring in the Arabian sea off Thannirbhavi receiving effluents from MCF. Ltd. (2002- onwards)	MCF Ltd., Mangalore	4.15	April 2009	Dr. H.R.V Reddy Dr. Gangadhara Gowda
103	Monitoring of pollution impact due to discharge of treated effluent from BASF India Pvt. Ltd., in the coastal waters off Chitrapur	BASF, Mangalore	5.57	April 2009	Dr. H.R.V. Reddy DR. A.T. Ramachandra Naik
104	Coastal water Quality Monitoring off Padubidri near the proposed UPCL Ltd. Effluent discharge point	UPCL	7.5	April 2009	Dr. H.R.V. Reddy Dr. Ganapathi Naik M
105	“Assessment of riverine fisheries and linking with water quality restoration	KSPCB	10.00	26.08.2009	Dr. Gangadhara Gowda Dr. Ganapathi Naik M
106	To study the Efficiency of Traditional and Mechanical Aerators in Shrimp /Fish Ponds	KVAFSU	20,000	14-12-2009	S.Varadaraju B.Hanumanthappa Shashidhar.H.Badami Iqlas Ahmad
107	A value chain in production and utilization of Indian major carps and prawn from aquaculture system	NAIP, ICAR New Delhi	37.61	October 2008	Dr. K.M. Shankar Dr. B.A. Shamsundar
108	Utilization of marine and fresh water fish for e added products	RKVY	41.80	DEC. 2008	Dr. B.A. Shamsundar Dr. R.M. Prabhu
109	Development of e-Courses BfSc Degree Programme	NAIP, ICAR New Delhi	26.25	October 2008	Dr. B A Sh amasundar Dr. R Suresh



110	“Community Based Enterprise Development for the women groups in Coastal Karnataka	RKVY	8.80	December- 2008	Dr. C.V. Raju Shri.R.M. Prabhu
112	Mandate crop/ commodity: Marine and Fresh water Fish for west coast of India”	: ICAR, AICRP ON PHT, Ludhiana	19.07	Nov. 2009	Dr. C.V.Raju Scientist at Agri. Stru. And Process Engg.Scientist Food Microbiology Prof. N.S. Sudhakara Dr. B.A. Shamasundar Sri. R.M. Prabhu
113	Creation of Awareness and Mass Training Programme for Coastal and Marine Fisherfolk of Coastal Karnataka	RKVY	1.80	April 2009	Dr. S.M. Shivaprakash Dr. S. Benakappa Mr. Shri V.K. Shetty Prof. B. Hanumanthappa
114	Economics of Myctophid Harvesting in India	CMLRE, Ministry of Earth Sciences, Kochi, India	5.00		Dr. R. Muni Reddy
115	Strengthening of water and soil testing and fish health diagnostic laboratory and training to farmers in inland aquaculture	RKVY,DOF GOK	68.00 lakhs	31.12.2008	Dr. K.N. Prabhudeva G.Y. Keshavappa Dr. Y. Basavaraju
116	Establishment of Inland Fisheries Research and Information Centre at Buthnal	RKVY,DOF GOK	148.10	31.12.2008	Dr. K.N. Prabhudeva Dr. Y. Basavaraju
<b>Institute of Animal Health and Veterinary Biologicals, Hebbal, Bangalore</b>					
117	All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance	ICAR	2 2.35	1998	Dr. C.Renukprasad Dr. P. Giridhar
118	All India Co-ordinated Research Project for Epidemiological Studies on Foot and Mouth disease.	75% ICAR; State-25%.	25.32	1997	Dr. C.Renukprasad Dr. P. Giridhar
119	Southern Regional Disease Diagnostic Laboratory	Government of India	434.95	1999	Dr. C.Renukprasad Dr. M.D.Venkatesha and other Scientists of SRDDL.
120	All India Network Project on Blue Tongue Disease	ICAR	5.20	2001-02	Dr. C.Renukprasad Dr. S.M.Byregowda
121	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 (Rashtriya Krishi Vigyan Yojana)	19.47	2009-10	Director, Scientist-4 & Scientists in Biological production wing.



122	Up gradation of vaccine production laboratories as per GMP for consistent supply of vaccines to livestock and poultry of farming community.	Govt. of India, RKVY	2250.00	2010	Director, Scientist-4 & Scientists in Biological production wing.
123	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	1100	2010	Director, Scientist-4 & Scientists in Biological production wing.
<b>Livestock Research &amp; Information Center (Sheep), Nagamangala.</b>					
124	Mega Sheep Seed Project (Mandya Sheep)	ICAR	108.05 Lacs	April - 2009	Dr.R.Nagaraja, Dr. Naveen Kumar, S. Dr. Mohan Perumal.
<b>Livestock Research &amp; Information Center (Deoni), Hallikhed</b>					
125	Studies on Parameters of Bidar. District milk production and milk procurement	KVAFSU	15,000.00	2010	Dr. Satish Biradar Prof K.M Gadre Dr.Mallikarjun Bukka
<b>Fisheries Research and Information Centre, Bela, Ankola</b>					
126	“ Effect of Immunostimulants in shrimp farming”	KVAFSU	4.0 Laksh	2008	Dr. Lakshmipathi M.T. and Mr. Manjappa N.

### 3. Technologies developed

#### Veterinary College, Hebbal, Bangalore

1. The novel technique of preserving the biological specimens by Plastination method is being developed utilizing Environmental Pollutants for the first time in the country.
2. Developing a teaching E-module using animation and a project costing Rs. 10 lakhs has been submitted to UGC for funding.
3. Biofilm vaccine against Bovine Mastitis due to Staphylococcus aureus and E.coli, Indirect ELISA for diagnosis of Bovine Leptospirosis.
4. Dr. R.Jayashree, Asst. Professor has designed a special bag for weighing of small ruminants and calves.
5. In the Department, a technology for marination of chicken meat with Ginger, Garlic, Clove and Cinnamon at Room temperature and Refrigerated temperature in reducing the food borne pathogens was developed. Marination of chicken meat had a significant effect in

reduction of common food born pathogens like E. coli and Salmonella (2 log reduction in terms of E.Coli and 1 log reduction in Salmonella counts) in the marinated samples compared to that of control.

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

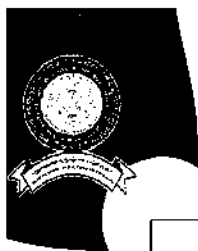
6. Reference Values of Biochemical parameters for Khillar breed of Cattle.
7. Blood biochemical profile for Malnad Gidda Breed of Cattle.

#### Fisheries Research & Information Center (I), Hebbal

8. Culture of Amur carp
9. Culture of fresh water prawn
10. Fish seed rearing and production of advanced fingerlings

#### 4.Awards/Recognitions

Sl. No.	Name of the Scientist	Award	Year	Agency
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Dr. V. Girish Kumar	Best Paper award	2005 and 2006 awarded on 18 <sup>th</sup> Nov, 2009	Alumni Association, NDRI, Southern Campus, Bangalore
2.	Dr.Placid E.D'Souza	Sri S.M. Ismail Oration Award for distinguished contributions in the field of Helminthic diseases of animals	2009	Indian Association for the Advancement of Veterinary Parasitology
3.	Dr. G.S. Mamatha, Dr.Placid E.D'Souza & Dr. V.V.S. Suryanarayana	V.S. Alwar Memorial Award for Best Research Article in Parasitic Immunology published during 2008 in the Journal of Veterinary Parasitology	2008	Indian Association for the Advancement of Veterinary Parasitology
4	Dr. Shrikrishna Isloor	Awarded Gold medal for bringing Extra mural project to the University,	17 <sup>th</sup> Jan 2010	KVAFSU
5	Dr.Rathnamma,D	Awarded Certificate of Merit for bringing Extra mural project as Co-Investigator to the University,	17 <sup>th</sup> Jan 2010	KVAFSU
6	Dr. B. M. Veeregowda	Awarded Certificate of Merit for bringing Extra mural project as Co-Investigator to the University,	17 <sup>th</sup> Jan 2010	KVAFSU
7	Dr.A.Krishnaswamy	Minnessota University award for Best Clinical Case presentation	2009	ISSAR
8	Dr. M.C. Anil Kumar	Second Best oral presentation award for wild life medicine	2010	Indian society for Veterinary Medicine
9	Dr L. Ranganath	PACE award	2009	Petcare India Limited
10	Dr L. Ranganath	FISVS	2009	Indian Society for Veterinary Surgery
11	Dr.S.Yathiraj	Robano Vocational Excellence Award" in recognition of the contribution in the field of Veterinary Education, Animal Health Care and Animal Welfare	2009	Rotary Bangalore North, R.I.Dist 3190.



12	Dr.C.S Nagaraja, Professor, Dept. of AGB	Certificate of merit for the research grant mobilization as Co-PI for the project titled "Standardization of Molecular methods for Identification of Animal species with special reference to wild life".	2009-10	KVAFSU, Bidar
13	U. Krishnamoorthy	Dr. S.P. Arora Award for the ANSI Outstanding Paper for 2007-2008 best paper	2009-10	
14	Y.B. Rajeshwari	certificate of merit in recognition of Research grant mobilization worth of Rs. 16.07 lakhs from DBT, Ministry of Science & Technology, Govt. of India, New Delhi for operating the research project on "Improving the economic & health status of rural people through backyard rabbit rearing" as Principal Investigator	2009-10	3 <sup>rd</sup> Convocation, KVAFSU, Bidar on 17 <sup>th</sup> January 2010
15	AICRP on Poultry Breeding for Meat Department of Poultry Science	First Rank among Broiler centers of the country.	2009-10	Annual workshop AICRP on poultry breeding for meat
16	Dr.S.Yathiraj	Fellow of Indian Society for Advancement of Canine Practice – 2010" in recognition of services and significant contribution for the advancement in canine practice	2010	Indian Society for advancement of canine practice
17	Dr.S.Yathiraj	Fellow of Indian Society for Veterinary Medicine – 2009" in recognition of services and devotion for the cause of Veterinary Medicine	2010	Indian Society for Veterinary Medicine.
<b>Veterinary College, Bidar</b>				
18	Dr.B.V.Shivaprakash	Fellow of Indian Society for Veterinary Surgery, 2009	2009	Indian Society for Veterinary Surgery
19	Dr.Ashok pawar Dr. Ramchandra Dr. Appannavar Dr. Srikanth kulkarni	Best paper award	2009	International congress on veterinary anatomy organized by IAVA at Lucknow
20	Dr. Ravindra Bhoyar	Best Paper Award	2010	Indian Society for Veterinary Medicine
21	Dr.M.M.Appannavar	Best paper presentation award	2008	Indian Association of Veterinary Anatomist
<b>Veterinary College, Hassan</b>				
22	Dr. M.S.Vasanth	Fellow	2010	Indian Society for

## IV. EXTENSION

The University has carried out extension education activities for transfer of developed technologies to the farming community through conducting training programmes, demonstrations, farmers scientists interaction sessions, field visit, organizing awareness programmes, health camps, organizing melas. The constituent College and research station spread throughout state and working hard for the betterment of socio-economic condition of the farming community.

### 1. Transfer of Technologies

#### Veterinary College, Hebbal, Bangalore

1. The Department of Veterinary & A.H Extension Education has extended the technical knowhow in preparation of 14 posters on different Livestock management practices to the Department of Animal Husbandry and Veterinary Services, GOK, which are now displayed in different Veterinary Hospitals in the state.

#### Dairy Science College, Hebbal, Bangalore

##### a) Technologies released / commercialized

2. Scientific/ modern methods of production of milk products
3. Development of kits for demonstration on detection of adulterants and preservatives Preparation of leaflets/handouts on clean milk production, adulterants in milk and milk products, value addition to milk products etc.
4. Popularization of some value added products developed by DT dept. such as pro-biotic yoghurt and kulfí, fruit-whey beverages, weaning foods (Dairy based), diabetic and dietetic dairy foods, and paneer spreads

##### b) Institute industry collaboration

1. Collaboration with FTI, UAS, Bangalore and KMF Ltd., & other line departments in organizing training programs

### 2. Trainings/Workshops/Seminars Organised

#### Veterinary College, Hebbal, Bangalore

1. Veterinary College, Bangalore organized Workshop on "Grazing problems of pastoralists / livestock keepers" a joint programme of "Sahaja Samrudha", an Organic farmers association of Karnataka and KVAFSU, Bidar on 26.04.2010.

2. Veterinary College, Bangalore organized One day "Waltham Workshop in Clinical Neurology" was jointly organized by MARS India, Hyderabad and Veterinary College, Hebbal, Bangalore on 13<sup>th</sup> May 2009.

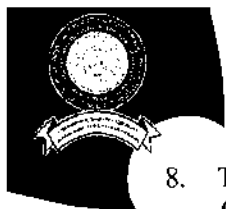
3. Veterinary College, Bangalore organized Round Discussion in Clinical Neurology - Waltham Workshop at Veterinary College and Veterinary College Clinics jointly organized by MARS, India and Veterinary College, KVAFSU, Hebbal, Bangalore from 15<sup>th</sup> to 17<sup>th</sup> June 2009.

4. Veterinary College, KVAFSU, Hebbal, Bangalore in association with "Rabies in Asia Foundation" organized "Rabies Quiz" (written) on the occasion of World Rabies Day 2009 on 11<sup>th</sup> September 2009

5. Veterinary College, Bangalore, Commonwealth Veterinary Association and Alliance for Rabies Control jointly observed "World Rabies Day-2009" to create awareness about Rabies on 17<sup>th</sup> September 2009.

6. Department of Pharmacology and Toxicology in collaboration with Society of Toxicology, India organized a training programme on "Advance training programme in toxicology" during 31-07-2009 to 02-08-2009 at Veterinary College, Bangalore. Dr K.Jayakumar, Dr.N.B.Shridhar Dr.Jagadeesh Sanaganal were the coordinator and convenors of the programme. Total number of trainees participated were 30.

7. The Department of Veterinary Parasitology organized the XIII National Training programme on "Trends and Perspectives in the Biology, Ecology and Control of Parasitic diseases" during 11.03.2010 to 31.03.2010 for teachers and scientists. The total no. of participants were 14. It was sponsored by the ICAR under the aegis of the Centre of Advanced Faculty Training. Dr.Placid E.D'Souza, Professor cum Director of the centre conducted the training programme.



8. The Department of Pathology was involved in Organizing a Training Programme for Veterinary Officers of AH & VS on Veterolegal procedures, practices and forensic aspects in collaboration with Dept. of VEPM and Clinical Medicine, Pharmacology, Veterinary College, Bangalore and KVC at Veterinary College, Bangalore during 5<sup>th</sup> to 10<sup>th</sup> October 2009. A total number of 21 trainees participated. Dr. Suguna rao served as Coordinator.
9. The Department of Pathology was involved in a Training Programme for Veterinary Officers of AH & VS on Emergency and critical care medicine in organized by the Dept. of VEPM and Clinical Medicine, Pharmacology, Veterinary College, Bangalore and KVC at Veterinary College, Bangalore during 9<sup>th</sup> to 14<sup>th</sup> Nov. 2009. A total number of 21 trainees participated. The Staff of Dept. of pathology participated as Resource scientists.
10. The Department of Pathology was involved in a Training Programme for Veterinary Officers of AH & VS on Biomedical and waste management organized by the Dept. of VEPM and Clinical Medicine, Pharmacology, Veterinary College, Bangalore and KVC at Veterinary College, Bangalore during 7 to 12<sup>th</sup> Dec. 2009. A total number of 20 trainees participated. The Staff of Dept. of pathology participated as Resource scientists.
11. The Department of Pathology was involved in Organizing a Training Programme for Veterinary Officers, Teachers and staff from Veterinary college and Medical colleges on diagnosis of rabies in along with NIMHANS, KIMS in collaboration with GARC, RIA and CVA at Veterinary College, Bangalore on 24<sup>th</sup> Feb 2010. A total number of 30 trainees participated.
12. Department of Veterinary Gynaecology and Obstetrics organized state level seminar on Update on Infertility in Male and Female Animals on 20.02.2010 at Hessarghatta, Bangalore. The number of participants were 75 and was sponsored by ISSAR Karnataka Chapter, Bidar.
13. Department of Clinical Medicine organized training programme on "Ruminant Medicine" at Veterinary College, Bangalore during 13<sup>th</sup> to 18<sup>th</sup> July 2009. 31 veterinarians participated. Sponsored by KVC. Course Director and Co-Course Director : Dr. S.Yathiraj and Dr. H.A.Upendra.
14. Department of Clinical Medicine organized training programme on "Veterolegal procedures, practices and forensic aspects" at Veterinary College, Bangalore during 5<sup>th</sup> to 10<sup>th</sup> October 2009. 31 veterinarians participated. Sponsored by KVC. Course Director and Co-Course Director: Dr. Dr. H.A.Upendra and M.A.Kshama.
15. Department of Clinical Medicine organized training programme on "Emergency and critical care medicine" at Veterinary College, Bangalore during 9<sup>th</sup> to 14<sup>th</sup> Nov 2009. 28 veterinarians participated. Sponsored by KVC. Course Director and Co-Course Director Dr. Dr. H.A.Upendra and Dr. C.Ansar Kamran
16. Department of Surgery and Radiology organized a training programme on Small Animal Surgery for Veterinary Officer of Department of Animal Husbandry and Veterinary Services at Veterinary College Bangalore, during 03.08.09 to 08.08.09 and 17.08.09 to 22.08.09. 26 Veterinary officers participated. KVC sponsored the training programme and Dr. L. Ranganath Professor and Head was the course director.
17. Department of Animal Nutrition organized a Training programme on "Unconventional feeds and feeding resources" at Veterinary College, Bangalore from 6<sup>th</sup> to 11<sup>th</sup> July, 2009 for the officers of Department of Animal Husbandry and Veterinary Services. The Karnataka Veterinary Council sponsored the programme. Dr. K. Chandrapal Singh, Professor and Head and Dr. R.G. Gloridoss, Professor co-ordinated the Training programme.
19. Indian society for advancement of canine practice organized "Novel approach in companion animal practice" at Hotel Atria during 21-01-2010 to 23-01-2010 sponsored by Indian society for advancement of canine practice. Dr. Yathiraj, Dean, Veterinary College, Bangalore Co-ordinated the workshop.
20. Department of Veterinary & A.H Extension Education, Veterinary College, Bangalore organized a training on "Sustainable Livestock

Farming” at Veterinary College, Bangalore for Veterinary Officers from 26-31 October, 2009. 19 doctors participated and this training was sponsored by Continuing education under VCI. Dr.K.Satyanarayan was the course director and Dr.V.Jagadeeswary was the co-course director.

### **Veterinary College, Bidar**

21. Department of VPH along with dept. of LPT Organised “One day workshop on Adulterants and preservatives in milk and its products” at Veterinary College, Bidar on 21<sup>st</sup> august, 2009. About 50 participants from the department of animal husbandry and veterinary services and staff of KMF participated in this workshop. KMF gulbarga dairy unit sponsored the workshop. Dr. Y. Hari Babu was the chairman of the coordinating committee and Dr. Pradeep Kumar, Dr. Veeranna and Dr. Jagannatha Rao were the coordinators of the workshop.



Practical demonstration at the training programme on Trends and Perspectives in the Biology, Ecology and Control of Parasitic diseases.

22. Dept. of Surgery & Radiology, under Continued Veterinary Education programme, sponsored by KVC, organized training programme on Techniques in Large Animal Surgery from 5.10.2009 to 10.10.2009. 15 veterinary officers participated in the training programme. Dr.B.V.Shivaprakash was the Course Director.
23. Dept. of Surgery & Radiology, under Continued Veterinary Education programme, sponsored by KVC, organized training programme on Diagnostic Radiology & fracture repair from 12-10-2009 to 17.10.2009. 12 veterinary officers participated in the training programme. Dr.B.V.Shivaprakash was the Course Director.
23. Dept. of Surgery & Radiology, under Co Veterinary Education programme, sponsored by KVC, organized training programme on Anaesthesia & common Surgeries from 26.10.2009 to 31.10.2009. 15 veterinary Officers participated in the training programme. Dr.Dilipkumar was the Course Director.
24. Dept. of Vety & A.H. Extension, under Continued Veterinary Education programme, sponsored by KVC, organized training programme on Human Resource Development from 14<sup>th</sup> to 19<sup>th</sup> Sept., 2009. 15 veterinary officers participated in the training programme. Dr. K.C. Veeranna was the Course Director and Dr. Shivakumar K.Radder Course Coordinator.
25. Dept. of Vety & A.H. Extension, under Continued Veterinary Education programme, sponsored by KVC, organized training programme on Extension Tools and Techniques in Veterinary Practice and Livestock Production from 01-02-2010 to 06-02-2010. 24 veterinary officers participated in the training programme. Dr. K.C. Veeranna was the Course Director and Dr. Shivakumar K.Radder Course Coordinator.
26. Dept. of Vety & A.H. Extension, under ICAR sponsored training programme, organized training programme on Livestock based livelihood security from 29-12-2009 to 02-01-2010. 12 Subject Matter Specialists of KVKs participated in the training programme. Dr. K.C. Veeranna was the Course Director and Dr. Shivakumar K.Radder Course Coordinator.
27. Dept. of Vety & A.H. Extension, in collaboration with UAS, Dharwad, SAMETI, North, organized training programme on Role of livestock in Integrated farming system from 11-01-2010 to 13-01-2010. 15 veterinary officers and agriculture officers participated in the training programme. Dr. K.C. Veeranna was the Course Director
28. Department of Pharmacology and Toxicology, organized ; “Clinical Pharmacology and Forensic Toxicology” at Veterinary College, Bidar during 24<sup>th</sup> August to 29<sup>th</sup> August 2009. 17 Officers of Dept. of Animal Husbandry



And Veterinary Services, Govt. Of Karnataka participated. Karnataka Veterinary Council (KVC) sponsored the training . Dr. VijayKumar.M , Asst Professor,Dept. of VPT coordinated the training.

29. Department of Pharmacology and Toxicology, organized ; “Chemotherapy and Diagnostic Toxicology” at Veterinary College, Bidar during 23<sup>rd</sup> November to 28<sup>th</sup> November 2009. 11 Officers of Dept. of Animal Husbandry and Veterinary Services, Govt. Of Karnataka participated. Karnataka Veterinary Council (KVC) sponsored the training . Dr. Sunilchandra.U , Asst Professor ,Dept. of VPT coordinated the training.
30. Department of Pharmacology and Toxicology, organized ; Skill development Training programme On: High Performance Liquid Chromatography “ at Veterinary College, Bidar during 14<sup>th</sup> December to 16<sup>th</sup> December 2009. 17 13 B.Pharm, M.Pharm, students of SVET college of pharmacy, Humnabad; and 2 students of Veterinary College, Bidar participated. . It was a training programme with self financing by the participants. Dr. VijayKumar.M , Asst Professor,Dept. of VPT coordinated the training
31. Dept. of Medicine organized three training programme on Fluid and electrolyte therapy in veterinary practice from 7<sup>th</sup> to 12<sup>th</sup> September 2009 and 17 Veterinary officers participated in the training under Continued Veterinary Education sponsored by Karnataka Veterinary Council. Course Director: Dr. NA Patil
32. Dept. of Medicine organized three training programme on Advances in diagnosis and treatment of diseases of sheep and goats from 15<sup>th</sup> to 20<sup>th</sup> February 2010. Nineteen veterinary officers participated under Continued Veterinary Education sponsored by Karnataka Veterinary Council. Course Director: Dr. Vivek R. Kasaralikal
33. Dept of LPM organized CVE Training Programme on “Information Technology in Veterinary Practice” at Vety College, Bidar

During 8-13 Feb 2010. 19 Officers of Dept. of Animal Husbandry and Veterinary Services, Govt. of Karnataka participated. Karnataka Veterinary Council (KVC) sponsored the training. Dr. Vivek M. Patil, Asst Professor, Dept. of LPM was the Course Director.

34. Under grants received from ICAR, New Delhi, towards support to guest faculty, 21 guest lectures from distinguished persons from various spheres were organized during March, 2010, for the benefit of students and faculty of Veterinary College.

#### **Veterinary College, Shimoga**

35. World Veterinary Day 2009 was celebrated on April 25<sup>th</sup> 2009 at the college premises. The programme was presided over by Dr. S. Mallikarjunappa, Dean, Veterinary College, Shimoga. The function was conducted by the students on the theme 'Veterinarian and livestock farmers a winning partnership'. Dr. Kavitharani, B. co-ordinated the programme.

#### **Veterinary College, Hassan**

36. Veterinary College, Hassan, organized one week farmers training at Mylanahalli, Dudda Hobli, Hassan Dist, from 2-5-2009 to 8-5-2009 where in 250 farmers participated and topics as Commercial Dairying, Zoonotic Diseases & Control, Clean Milk Production, Empowerment of women in development of rural economy, Rearing of sheep, poultry & pigs and Composite Manuring were covered by the faculty of the college.
37. Veterinary College, Hassan, in collaboration with Karnataka Veterinary Association(Hassan chapter) organized one day technical seminar to field Veterinarians Veterinary college, campus on 15-09-2009. 90 field veterinarians from KMF and Animal Husbandry department from Hassan District participated and topics as Advances in surgical techniques, Management factors affecting Low SNF Content in milk, Nutritional factors affecting low SNF content in milk, Clean Milk Production An imperative to Indian Dairying, Nanobacteria and its importance and Mastitis Present Knowledge and future perspective were covered by the faculty of the college.



**Institute of Animal Health and Veterinary  
Biological, Hebbal, Bangalore**

38. Under the sponsorship of Govt. of India IAH&VB has organized 8 training programme in different topics.

**Livestock Research And Information Center  
(Deoni)**

39. LRIC (Deoni) has organized 5 training programme on dairy farming to farmwomen under the sponsorship of KMF.

**Fisheries Research & Information Center  
(I), Hesaraghatta, Bangalore**

40. 10-07-2009 : Fish Farmer Day was celebrated at FRIC (I) Hebbal jointly in co-operation with Dept. of Fisheries, Govt. of Karnataka about 250 fish farmers both men & women from Bangalore Urban and Rural participated in the programme.

41. Assisted in organizing training programme on "Brood Stock Management & Hatchery Practices" from 22-10-2009 to 24-10-2009 Sponsored by NFDB. Trainees visited FRIC (I), Hesaraghatta and were trained on fish tagging, Amur seed production and ornamental fish production.

42. Organized 6 ATMA Training programs on fish farming in lakes, tanks and ponds in co-operation with Dept. of Fisheries, Govt. of Karnataka for the benefit of Bangalore urban and rural fish farmers at FRIC (I), Hebbal.



### 3. Trainings/Workshops/Seminars participated as Resource Persons

#### Veterinary College, Hebbal, Bangalore

1. Dr. R.V. Prasad, participated in the International Congress on Veterinary Anatomy and Symposium on “ New Concept and Innovative Technologies in Veterinary Anatomy for the Sustainable Livestock Production in the New Millenium” & 24<sup>th</sup> Convention of Indian Association of Veterinary Anatomists November 4-6, 2009 and presented the Lead Paper on foetal development and the foetus as patient
2. Dr.K.Jayakumar &Dr N.B.Shridhar participated in the seminar on Current Trends in Toxicology and Pre-Clinical Toxicology held at Hyderabad from 04-11-2009 to 07-11-2009, organized by Society of Toxicology India (STOX).
3. Dr.N.B.Shridhar participated in the seminar on International Conference on Ethnoveterinary Practices: Use of medicinal plants in veterinary practice held at Thanjavur from 04-01-2010 to 06-01-2010.
4. Dr.N.B.Shridhar participated in the Refresher Course in advances in veterinary science Konehally, Tipatur 24.07.09, and discussed on Common plant toxicities in livestock and the therapy.
5. Dr.N.B.Shridhar participated in a meeting of Progressive Farmers and Veterinarians and discussed on Januvaarugalalli Saamaanya visha baadhe mattu parihaaropaaya at Bhairumbe 29.01.2010
6. Dr.Placid E.D'Souza, participated in the seminar entitled Immunocon 2009(Indian Immunology Society ,36<sup>th</sup>.Annual meeting)at NIMHANS, Bangalore from 16.12.2009 to 19.12.2009 and delivered invited lectures on Taeniid cysticercosis an emerging and re-emerging cyclozoonoses and An Update On Echinococcosis. A Re-Emerging Zoonotic Disease
7. Dr.Placid E.D'Souza, participated in the seminar entitled XX National Congress of Veterinary Parasitology with the theme on Parasitology Today- Ecology to Molecular Biology at the College of Veterinary Science, CCSHAU, Hisar from 18.2.2010 to 20.2.2010 and presented two lead papers on Cophylogeny in Parasitism and A decade of research on Taenia solium Cysticercosis.
8. Dr. S. Isloor participated in an International Symposium entitled “Innovative Agricultural Biotechnology” at National Pingtung University of Science & Technology, Pingtung, Taiwan during 5<sup>th</sup> to 9<sup>th</sup> October, 2009 and discussed on Brucellosis Control Programme a new approach.
9. Dr. M. L. Satyanarayana, participated and presented research papers in the Annual conference of Indian Association of veterinary pathologists (IAVP) on Advanced descriptive techniques ultrastructure, cytology and immunohistochemistry and Philosophy of disease diagnosis through morphological to biomolecular approaches at GADVAS, Ludhiana during 28<sup>th</sup> 30<sup>th</sup> Oct. 2009. A total of 150 pathologists participated.
10. Dr.V.Chandrashekera Murthy participated in seminar as resource person and delivered talk on “Importance of estrus detection in management of infertility at Surya foundation, Haniyur on 8-5-2009
11. Dr.V.Chandrashekera Murthy participated in technical seminar as resource person and delivered talk on Modern Approach to infertility in Dairy Cattle at KVK,Konenahalli on 22-07-2009.
12. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Management of Dystocia in bovine organized by Department of Animal Husbandry and Veterinary Services, on 07.07.2009 at Hassan.
13. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Repeat breeding syndrome in cattle and its

- treatment organized by Department of Animal Husbandry and Veterinary Services, on 07.07.2009 at KVA, Mandya.
14. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Synchronization of estrous and ovulation in dairy cows organized by Department of Animal Husbandry and Veterinary Services, on 17.07.2009 at KVA, Davanagere.
  15. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on An approach to infertility in dairy cows with hormones organized by Department of Animal Husbandry and Veterinary Services, on 17.09.2009 at KVA, Chikkaballapur.
  16. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on An Recent Approach for treatment of Infertility in cows organized by Department of Animal Husbandry and Veterinary Services, on 06.01.2010 at KVA, KVK, Adonahalli, Doddaballpur, B,lore Rural District
  17. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Management of infertility in dairy cows organized by Department of Animal Husbandry and Veterinary Services, on 02.01.2010 at KVA, Kolar.
  18. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Handling of frozen semen in field conditions for optimum fertility organized by MYMUL, Mysore-Chamarajanagar, Dist .Co-operative Milk producers Union, on 25.11.2009 at KVA, Kolar
  19. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Management of Cry cans and Frozen semen as means to overcome infertility organized by MYMUL, Mysore-Chamarajanagar, Dist .Co-operative Milk producers Union, on 02.12.2009 at KVA, Kolar.
  20. Dr.Chandrashekara Murthy participated in technical seminar as resource person and delivered talk on Canine infertility and Management of Uterine infections in bovines organized by Department of Animal Husbandry and Veterinary Services, Goa on 13.01.2010
  21. Dr.A.Krishnaswamy participated in National Symposium as resource person and delivered talk on An update on Neonatal Care and Management organized by Indian Society for Advanced Canine practice and KVAFSU from 21 to 23<sup>rd</sup> Jan, 2010 at Hotel Atria, Bangalore.
  22. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Management of Reproductive Disorders in Cattle organized by Department of Animal Husbandry and Veterinary Services on 26.01.2010 at Shimoga.
  23. Dr.A.Krishnaswamy participated in technical seminar as resource person and delivered talk on Reproductive Disorders in Large Animals organized by Department of Animal Husbandry and Veterinary Services on 01.03.2010 at Chamrajnagar.
  24. Dr.Chandrashekara Murthy participated in Extension training programme as resource person and delivered talk on Sheep farming for Livelihood security and Reproductive Disorders in Sheep & Goat on 9.02.2010 at EEU, Regional campus, Bangalore.
  25. Dr.Chandrashekara Murthy participated in Extension training programme as resource person and delivered talk on Dairy farming for Economic stability Reproductive disorders in cows and Buffaloes on 18.02.2010 at EEU, Regional campus, Bangalore.
  26. Dr.Chandrashekara Murthy participated in Extension training programme as resource person and delivered talk on Dairy farming for Economic stability Reproductive disorders in cows and Buffaloes on 18.02.2010 at EEU, Regional campus, Bangalore.
  27. Dr.Chandrashekara Murthy participated in Extension training programme as resource person and delivered talk on pig farming for Livelihood security and Reproductive Disorders in pigs on 10.03.2010 at EEU, Regional campus, Bangalore.
  28. Dr. Nadeem Fairoze participated in one day training program organized by Association of Food Scientists & Technologist entitled "Traditional Foods: its role and Nutrition" at Brindavan College, Bangalore on 18.10.2009 and discussed on "Traditional Indian Meat Products"



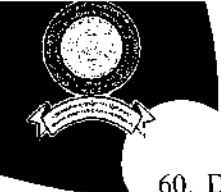
29. Dr. Nadeem Fairoze participated in one day training program organized by Zilla Panchayat, Dharwad on 20.11.2009 and discussed on "Karnataka Cow Slaughter Ban Act, 1964".
30. Dr.S.Yathiraj participated in the National Symposium on Companion Animal Practice 2009 and World Small Animal Veterinary Association (CE) Program at Chandigarh on 28<sup>th</sup> November 2009.
31. Dr. Nadeem Fairoze participated in XX Indian Convention of Food Scientists and Technologists entitled "Specialized Processed Foods for Health & Nutrition : Technology & Delivery" organized by Association of Food Scientists & Technologist at NIMHANS, Bangalore on 22.12.2009 and discussed on "Meat as a Functional Food"
32. Dr. Nadeem Fairoze participated in one day training program organized by Jain University, Bangalore entitled " Livestock Sector and its Profitability" at Jain College of Management, on 26.03.2010 and discussed on " Profitability of Poultry Industry".
33. Dr.K.Satyanarayan participated as resource person at Staff Training Unit, UAS, Bangalore & Directorate of Extension IASRI campus, New Delhi, on 22<sup>nd</sup> October, 2009 and delivered a lecture on "Economics of Different Livestock Enterprises" for the Officers of the development department across the country.
34. Dr.S.Yathiraj participated in the 28<sup>th</sup> Annual Convention of the Indian Society of Veterinary Medicine held at Hyderabad. 17<sup>th</sup> to 18<sup>th</sup> February 2010
35. Dr.S.Yathiraj participated in the National Congress on Canine Practice and 7<sup>th</sup> Annual Convention of the Indian Society for Advancement of Canine Practice on "Novel Approaches in Companion Animal Practice" at the Hotel ATRIA, Bangalore. 21<sup>st</sup> to 23<sup>rd</sup> January 2010
36. Dr. K. Satyanarayan participated as resource person at Surya Foundation, kadanuru-Kaimara on 26<sup>th</sup> March, 2010 and delivered a lecture on " Importance of extension education in Veterinary & Animal Husbandry activities" for the students under NSS camp. On the same day another lecture was delivered "On management of sheep and goat "for the farmers in training programme organized by EEW.

37. Dr.Yathiraj, S participated in the National Symposium on Advances in Concepts of Animal Welfare, Health and Animal Husbandry and XI Annual Convention of Indian Association of Women Veterinarians (Formerly IALV) at College on 6<sup>th</sup> January 2010.

#### **Veterinary College, Bidar**

38. Dr. NA Patil, Dr. Sandeep H., Dr. Ravindra Bhojar and Dr. Santosh PS attended National symposium and 28<sup>th</sup> Annual convention of ISVM held at Veterinary College, Hyderabad between 17<sup>th</sup> to 19<sup>th</sup> February 2010 and presented seven papers.
39. Dr M K Tandle, participated in the training programme entitled "KVC training" at Dept of Pharmacology & Toxicology, Veterinary College, Bidar on 27.10.2009 and discussed on Rational use of hormones in animal reproduction.
40. Dr M K Tandle, participated in the training programme entitled "KVC training" at Dept of Medicine, Veterinary College, Bidar on 20.2.2010 and discussed on "Infertility and infectious causes of abortion in sheep".
41. Dr M K Tandle, participated in the training programme entitled "Artificial insemination" at Dept of Gynecology & Obstetrics, Veterinary College, Udgir on Feb 2010 and discussed on "Handling of frozen semen in field level".
42. Dr. Pradeep Kumar participated as resource person in the training programmes "Information technology for veterinarians", "chemotherapy and diagnostic toxicology" and "High performance liquid chromatography" organized at veterinary college Bidar
43. DrB.V.Shivaprakash and Dr. D. Dilip Kumar were participated as resource persons in the training programmes "Training on Clinical pharmacology and Forensic toxicology", "Diagnostic Radiology & fracture repair", "Anaesthesia and pain management in animals" and "Techniques in Large animal surgery" organized at veterinary college Bidar

44. Dr. VijayKumar.M and Dr. Sunilchandra.U participated in the training programmes; "Clinical Pharmacology and Forensic Toxicology", "Chemotherapy and Diagnostic Toxicology", "High Performance Liquid Chromatography (HPLC)", "Anaesthesia and common canine surgeries", "Fluid and Electrolyte therapy in Veterinary Practice" and "Advances in diagnosis and treatment of sheep and goat diseases" organized at Veterinary College, Bidar.
45. Dr. K.C. Veeranna and Dr. Shivakumar K.Radder, were participated in the training programme; "Human Resource Development", "Extension Tools and Techniques in Veterinary Practice and Livestock Production", "Livestock based livelihood security", "Role of Livestock in Integrated Farming System", at Veterinary College, Bidar on 14-09-2008 and discussed on : "Importance of HRD for livestock development".
46. Dr. K.C. Veeranna, participated in the Nat. Workshop on Strategies for Ext in A.H. and Fisheries for next decade at Veterinary College, Bidar on 04-09-2009 and discussed on : "An action oriented approach for managing and organizing rural youth for goat production".
47. Dr. Shivakumar K.Radder, participated in the training entitled ; "Bio-medical and animal waste management" at Veterinary College, Bangalore, on 09-12-2009 and discussed on : "Vermiculture and its utility".
48. Dr. Shivakumar K.Radder, participated in NSS special camp of Basava Teertha Vidya Peetha, Hallikhed (B) at Dakulagi village on 10-10-2009 and discussed on : "Animal husbandry and rural development".
49. Dr. P.M.Thimmareddy participated in the training entitled "Chemotherapy and diagnostic Toxicology" at KVAFSU, Bidar on 25<sup>th</sup> November 2009 and discussed on "Therapeutic considerations in endo-parasitic infestations of farm animals" 50. Dr. P.M. Thimmareddy participated in the training entitled "Advances in diagnosis and treatment of diseases of sheep and Goats" at KVAFSU, Bidar on 17<sup>th</sup> February 2010 and discussed on "Diagnosis and management of helminth infestations of sheep and goats".
51. Dr. R. D. Padalkar participated in the training at KVAFSU, Bidar and discussed on "Clostridial & Mycoplasmal infections of sheep & goats".
52. Dr. Shrikant Kulkarni participated in the training entitled "Clinical Pharmacology and Forensic Toxicology" at Veterinary College, Bidar on August 24<sup>th</sup>, 2009 and discussed on different topics.
53. Dr. NA Patil participated as resource faculty in trainings of Dept. of pharmacology between 23<sup>rd</sup> to 29<sup>th</sup> September, 2009 and delivered lecture on 'Clinical aspects of antimicrobial therapy in ruminants'.
54. Dr. Vivek Kasaralikal participated as resource faculty in trainings of Dept. of pharmacology between 23<sup>rd</sup> to 29<sup>th</sup> September, 2009 and delivered lecture on 'Care and management of critically ill patients'.
55. Dr Santosh PS participated as resource faculty in trainings of Dept. of pharmacology between 23<sup>rd</sup> to 29<sup>th</sup> September, 2009 and delivered lecture on 'Antimicrobial therapy in fungal skin infections'.
56. Dr. Ravindra BG participated as resource faculty in trainings of Dept. of pharmacology between 23<sup>rd</sup> to 29<sup>th</sup> September, 2009 and delivered lecture on 'Antimicrobial therapy in protozoal and rickettsial infections'.
57. Dr. NA Patil participated as resource faculty in trainings of Dept. of pharmacology between 24<sup>th</sup> to 29<sup>th</sup> August, 2009 and delivered lecture on 'Metabolic disorders and rational means of therapeutic management'.
58. Dr Santosh PS participated as resource faculty in trainings of Dept. of pharmacology between 24<sup>th</sup> to 29<sup>th</sup> August, 2009 and delivered lecture on 'Cardiovascular emergencies and its therapeutic management'.
59. Dr. Vivek Kasaralikal participated as resource faculty in trainings of Dept. of LPM between 8<sup>th</sup> to 13<sup>th</sup> February, 2010 and delivered lecture on 'Telemedicine in veterinary practice'.



60. Dr. Santosh PS participated as resource faculty in trainings of Dept. of LPM between 8<sup>th</sup> to 13<sup>th</sup> February, 2010 and delivered lecture on 'Various clauses of application software and Hospital management software'

61. Dr Sandeep H participated as resource faculty in trainings of Dept. of LPM between 8<sup>th</sup> to 13<sup>th</sup> February, 2010 and delivered lecture on 'Application of information technology in disease monitoring and surveillance'.

62. Dr. NA Patil participated as resource faculty in trainings of Dept. of Surgery & Radiology between 12<sup>th</sup> to 17<sup>th</sup> October, 2009 and delivered lecture on 'Diagnostic radiology and imaging techniques in wild animals'.

63. Dr. Vivek Kasaralikar participated as resource faculty in trainings of Dept. of Surgery & Radiology between 12<sup>th</sup> to 17<sup>th</sup> October, 2009 and delivered lecture on 'Use of echocardiography and colour Doppler in veterinary practice'.

64. Dr. NA Patil participated as resource faculty in trainings of Dept. of Surgery & Radiology between 26<sup>th</sup> to 31<sup>st</sup> October, 2009 and delivered lecture on 'Therapeutic management of pain'.

65. Dr. Vivek Kasaralikar participated as resource faculty in trainings of Dept. of Surgery & Radiology between 26<sup>th</sup> to 31<sup>st</sup> October 2009 and delivered lecture on 'Basic mechanisms and pathways involved in pain'

66. Dr. N.V. Jadhav participated in training entitled Poultry farming and feedmanagement at Vety. College, Bidar on 20-12-2009

67. Dr. Vivek M. Patil participated in training entitled Scientific dairy farming, Dairy cow breeds, shed management, calf management, at LRIC (Deoni).

68. Dr. Vivek M. Patil participated in training entitled Applications of information technology at Vety College, Bidar on 8-2-2010

69. Dr. Vivek M. Patil participated in training entitled Role of managerial practices in sheep and goat husbandry at Vety College, Bidar on 17-2-2010

70. Dr.M.M.Appannavar participated in the training entitled "Role of livestock in integrated farming system" Veterinary College, Bidar on January 13<sup>th</sup>, 2010 and discussed on "Livestock breeding management under integrated farming system

71. Dr. M.D.Suarangi participated in the training entitled "Information technology in veterinary practice" at Veterinary College, Biadr on February 13<sup>th</sup>, 2010 and discussed on "Computer basics, basics of software and operating systems and basics of nudi"

#### **Veterinary College, Shimoga**

72. Dr. Shambhulingappa, participated in the Entrepreneurship training to poultry farmers organized by Krishi Vigyan Kendra, Navile on 13-07-09 and discussed on Management of poultry.

73. Dr. Prakash Nadoor participated in a seminar organized by KVA Belgaum Chapter for Veterinary Officers on 28-09-09 and delivered talk on Phytotoxins & Zoo-toxins.

74. Dr. Ganga Naik, S. participated in a farmers' interaction session organized by NSS unit of National College at Konandur, Theerthahalli Taluk, Shimoga District on 05-12-09 and discussed on Dairy farming.

75. Dr. V.B. Shettar, delivered a talk on 'Profitable dairying on 05.02.2010 at Shimoga organized by JSS, Shimoga

76. Dr. Nagabhushan, V., Dr. V. B. Shettar and Dr. Rudresh, B. H. participated as Judges at a Livestock show conducted during the Krishimela on 19.02.2010 in Kadur organized by Sri Shkethra Dharmastala Rural Development Programme.

77. Dr. Manjunatha. L., delivered a talk on Integration of fodder trees in Livestock Enterprises at Hosakoppa Village on 20.03.2010 during a training programme organized by Jeevandhara Samaja Samsthe.

78. Dr. Manjunatha, L., participated in a Farmers' interaction organized by Extension Education Unit, KVAFSU, Bangalore at Balenahalli, Tarikere taluk on 22-09-09 and discussed with the farmers on principles of Modern Dairying and Integrated farming.
79. Dr. Chidanandaiah, participated in a training programme for farm women organized by Extension Education Unit, KVAFSU, Bangalore at Balenahalli, Tarikere taluk on 22-09-09 and demonstrated the trainees the preparation of value added milk products.
80. Dr. Prakash Nadoor participated in a seminar organized by Department of Pharmacology & KVC, Bangalore, for Veterinary Officers on 27-09-09 and delivered a talk on Care & management of poisoning cases under field conditions.
81. Dr. Rudresh, B. H. delivered a talk on Integration of with Livestock Enterprises at Hosakoppa Village on 22.03.2010 organized during the N.S.S. Annual Special Camp.

#### **Veterinary College, Hassan**

82. Dr.S.B.Prasanna participated in the WSPA conference for Regional discussions for Asian animal welfare implementation in Veterinary Schools from 23-25<sup>th</sup> April,09, and presented Indian status.
83. Dr.M.S.Vasanth participated in the All India Veterinary Surgery Conference held at Dept. of Veterinary Surgery & Radiology, GADVASU, Ludhiana from 11<sup>th</sup> -13<sup>th</sup> Nov 2009, and was the Chairman for the session "Avian, Wild & Zoo animal surgery session".
84. Dr.G.S.Naveen kumar participated in the Coffee Planters conference conference held at Hanbal, Sakleshpur on 6-11-2009 and presented a talk on Livestock Enterprise in Malnad region.
85. Sri. Devaraja Naika.K participated in a farmers training program held at Hirekadalur, Hassan on 8-1-2010 and presented a talk on Dairying Demonstration & Management of CMP.
86. Dr.M.S.Vasanth participated in the conference by Indian Society for Advancement of Canine Practice held at Veterinary college, Hebbal from

21<sup>st</sup> to 23<sup>rd</sup> January, 2010 and was the Chairman for Chairman of the Theme session I on Novel approaches in Companion Animal Practice, and also presented talk on Laser Surgery.

#### **Dairy Science College,Hebbal,Bangalore**

87. Mr. C. Kempanna, participated in the Southern Regional Agri-Animal fair (Krishi- Pashu Mela) organized at KVAFSU Headquarters, Nandinagar, Bidar on 19.12.2009 and demonstrated Chemical Purity and standards of milk and milk products at KVAFSU, Bidar for about 200 invited dairy farmers and KMF officials of Gulbarga Milk Union to create awareness on "Chemical Quality of Milk".
88. Mr. C. Kempanna, Assoc. Professor, Dept. of Dairy Chemistry, Dairy Science College participated in the Rural Dairy Work Experience Programme (RDWEP) and gave a talk on the "Chemical purity on milk" and demonstrated the ways to detect the presence of adulterants and preservatives added in milk in which around 40 people attended at Sondekoppa Village, Bangalore North taluk on 16-02-10.

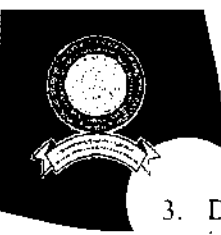
#### **Livestock Research and Information Center, Nagamangala**

Dr.R.Nagaraja, participated in Interaction Meeting of the Principal Investigators(PIs) of Mega Sheep Seed Project (MSSP) during 13 - 14th of June 2009 at CSWRI, Avikanagar.

#### **4. On campus/on farm trainings**

##### **Veterinary College, Hebbal, Bangalore**

1. Department of Veterinary Surgery and Radiology organized Hands on training on Animal birth control operation for the Officers of Department of Animal Husbandry and Veterinary Services.
2. Department of Poultry Science, Veterinary College, Bangalore organized training programme on "Backyard poultry farming" for farmers and trainees from CPDO Hesraghatta and Officers of AH and VS. Kerala Govt. and discussed on Backyard poultry rearing (Giriraja and Swarnadhara) Brooding, feeding, vaccination.



3. Department of Vety & A.H Extension education in collaboration with the other Department of the College had conducted the following on farm trainings at Haniyuru.

- i. On 30/12/2009, training enrichment of dry fodder (No. of participants 25) Dr. U. Krishnamurthy was the resource person.
- ii. On 28/3/2010, training on Management of Sheep & Goat (No. of participants 30). Dr.K.Satyanarayan and Dr.Chandrapal singh were the resources persons.
- iii. On 14/8/2009, training on Hygienic milk production (No. of participants 27). Dr.K.Satyanarayan was the resource person.
- iv. On 28/3/2009, training on Health management of Sheep and Goat - (No. of participants 30 ) Dr.P.T Ramesh was the resource person

#### **Veterinary College, Bidar**

4. Dept. of Vety & A.H. Extension organized 9 farmers training on various aspects of livestock production at project villages of NAIP about 751 farmers benefited by the training programme.

#### **Veterinary College, Shimoga**

5. Dept. of Veterinary & Animal Husbandry Extension and TVCC, Veterinary College, Shimoga, Directorate of Extension, KVAFSU, Bidar, in association with the Dept. of AH & VS organized a seminar for farmers on 'Modern

Dairying' at Belalakatte Village, Shimoga Taluk on 04-01-10. Sri. H.C. Basavarajappa, President, Zilla Panchayat, Shimoga inaugurated the programme. Dr. Basavaraj, N. (Deputy Director), Dr. Ganesh Udupa (i/c Dean), Dr. Kallappa (Assistant Director), Veterinary College staff, Veterinary doctors from the Department of AH & VS and other local people's representative graced the occasion. An animal health camp, animal show, exhibition and demonstrations were carried out during the occasion. Prizes were distributed to the winners of the animal show. About 50 farmers got the benefit of the programme.

6. NSS unit, Veterinary College, Shimoga, organized a talk on 'Role of livestock in the sustainable livelihoods of the farmers' on 22-03-10 during the Annual Special Camp conducted at Hosakoppa village, Shimoga taluk. About 20 farmers and 45 NSS volunteers got the benefit of the programme. Dr. Rudresh, B.H. and Dr. Manjunatha, L., participated as resource persons.

#### **Veterinary College, Shimoga**

7. Veterinary College, Hassan organized on campus training on surgical treatment of Pyometra at College campus on 7-10-2009 and 12-12-09, 12 field veterinarians attended and benefited by the program. Prof. M.S.Vasanth was the resource person.
8. Veterinary College, Hassan organized on campus training on surgical extirpation of eye ball at College campus on 19-01-2010, 10 field veterinarians attended and benefited by the program. Dr.K/L.Phaniraj was the resource person.

#### **Dairy Science College, Hebbal, Bangalore**

9. As part of the course work for final year B. Tech. (D. Tech.) students, Rural Dairy Work Experience (RDWE) Programme was organized at Sondakoppa village, Tavarekere Hobli, Bangalore District in association with BAMUL of KMF from 13<sup>th</sup> February to 22<sup>nd</sup> February 2010 wherein 24 students stayed in the village during the above period. Dr. Narasimha Murthy, Professor & Head, Dept. of Dairy Chemistry was Co-ordinator for Inplant & RDWE Programme Mr. B. Ramachandra, Asst. Professor, Dept. of Dairy Microbiology was Asst. Co-ordinator for

RDWE. Teachers from all Departments Prabha stayed with the students in RDWE and helped in making charts for the exhibition.

#### **Livestock Research & Information Center (Sheep), Nagamangala**

10. Veterinary Dispensary, Manikanally & LRIC(S), Nagamangala jointly Organized "Training on Sheep Husbandry and Management" at LRIC(S), Nagamangala during 15<sup>th</sup> October 2009. 15 Farmers were participated and benefited by this training.



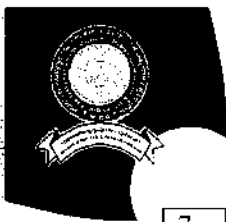
11. LRIC(S), Nagamangala Organized Talk on “Soil Management and Forage Production” by Prof. Ramanagoud, Retd. Professor, UAS, Bangalore at LRIC(S), Nagamangala during 18<sup>th</sup> August 2009 for staff & Farm Laborers.
12. LRIC(S), Nagamangala & Dept of Animal Husbandry, Nagamangala jointly organized “One Day farmers Training” at LRIC(S), Nagamangala during 4<sup>th</sup>, May 2010. Around 20 Farmers were Participated and benefited by this Programme.

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

13. LRIC, Deoni has organized 6 training programme for the farming community on “Broiler production and management” and “Dairy farming”, sponsored by KMF. About 600 farmwomen got the benefit out of the training.

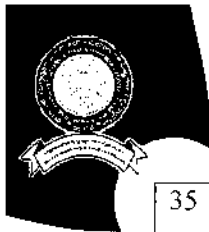
**5. Trainings/Workshops/Seminars Participated as Trainee Scientists (outside the University)**

Sl. No.	Name of the Teacher	Place and Date	Title	Organizer
<b>Veterinary College, Hebbal, Bangalore</b>				
1.	Dr.N.B.Shridhar	Bangalore, 6-10 cot., 2009	PD_ADMAS. Bangalore	The Project Directorate on Animal Diseases Monitoring and Surveillance, Hebbal, Bangalore
2.	Dr. B.M. Veeregowda	TANUVASU, Chennai 2- 22, sept. 2009	Bioinformatics & its Application in Animal Health & Veterinary Research	TANUVASU, Chennai
3.	Dr. Sharada. R	UAS, GKVK, Bangalore 4- 2, sept. 2009	Techniques in Molecular Biology	Dept of Biotechnology, UAS, GKVK, Bangalore
4.	Dr.M.L.Satyanarayana Dr.Suguna rao Smt. Nadira begum	NIMHANS, Bangalore 25 <sup>th</sup> March 2010	Recent advances in diagnosis of Rabies With special reference to DRIT	RIA, CVA, GARC
5	Dr.A.Krishnaswamy Dr.Sudha.G	Hotel Gate way 24.10.2009	Estrus synchronization	IMV France
6	Dr.A.Krishnaswamy	Namakkal, Dec. 11-13, 2009	International Symposium and 25 <sup>th</sup> Annual Convention of ISSAR	Veterinary College and Research Institute, Namakkal and ISSAR



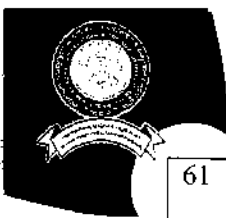
7	Dr.Chandrashekara Murthy	Namakkal, Dec, 11-13, 2009	International Symposium and 25 <sup>th</sup> Annual Convention of ISSAR	Veterinary College and Research Institute, Namakkal and ISSAR
8	Dr.Narasimha Murthy	Namakkal, Dec, 11-13, 2009	International Symposium and 25 <sup>th</sup> Annual Convention of ISSAR	Veterinary College and Research Institute, Namakkal and ISSAR
9	Dr.Chandrashekara Murthy Dr.Sudha.G	10-30 <sup>th</sup> Nov, 2009 Bangalore	Genomic and Proteomic technology for animal reproduction research	NIANP, Bangalore
10	M.C. Anil Kumar B.R.Deepti	Bangalore 26/8/2009	Swine flu in Bangalore- Lessons learnt and preparedness	National institute of advanced studies.
11	M.C. Anil Kumar B.R.Deepti Kshama M.A.	Bangalore 25/2/2010	"Training programme on diagnosis of rabies"	NIMHANS
12	Dr.H.A.Upendra	Bangalore 24.6.2009	Asia Pacific Lecture Tour	Alltech, USA
13	Dr.H.A.Upendra	Hyderabad 17-20 <sup>th</sup> Feb 2010	National symposium of ISVM	Veterinary College, Hyderabad
14	Dr. Anil Kumar	NPUST, Taiwan 5/10/2009	Canine parvo viral gastroenteritis- advances in diagnosis and control	NPUST, Taiwan
15	Dr.M.N.Bhat	Chennai 3.02.2010	Wild life conservation, health and diseases management-a post millennium approach	Madras Veterinary College, TANUVAS
16	Dr.B.M.Ravindranth	NIANP, Audugodi 10 <sup>th</sup> Nov. 2009 to 30 <sup>th</sup> Nov. 2009	Genomic and Proteomic tools for animal reproduction and research	NIANP
17	Dr.LRanganath	Veterinary College, Hebbal, Bangalore 13.06.2009	Clinical Neurology workshop	Mars International India pvt ltd Hyderabad
18	Dr. L. Ranganath Dr. B. N. Nagaraja Dr K M Srinivasa Murthy	Veterinary College, Bangalore 12.11.2009	Demonstration of Magnet feeding "RAKSHA PILL"	KAPL, Bangalore
19	Dr. B. N. Nagaraja	Veterinary College, Bangalore 17.08.2009	Interactive meet with ARS scientists from NAARM	Veterinary College, Bangalore
20	Dr. Leena, G	Veterinary College, Bangalore 24.04.2009	One day workshop on "Grazing problems of pastoralists/livestock keepers"	Veterinary College, Bangalore & Organic farmers association of Karnataka
21	Dr. Leena, G	Dept of Pathology, Vet. College, Bangalore 25.02.2010	Training programme on "Laboratory techniques in Rabies Diagnosis"	Dept of Pathology, Veterinary College, Bangalore Dept of Neurovirology, NIMHANS, Bangalore
22	Dr. Leena, G	Dept of Neurovirology, NIMHANS, Bangalore 25.03.2010	Training programme on "Diagnosis of Rabies"	Dept of Neurovirology, NIMHANS, Bangalore

23	Dr. K. Chandrapal Singh Dr. R.G. Gloridoss Dr. T.M. Prabhu	Bangalore, 9 <sup>th</sup> December, 2009	International Seminar on "Challenges to the Veterinary Profession"	Commonwealth Veterinary Association and KVAFSU, Bidar
24	Dr. K. Chandrapal Singh Dr. R.G. Gloridoss Dr. T.M. Prabhu	Bangalore, 17 <sup>th</sup> -19 <sup>th</sup> Dec, 2009	Biennial Conference of ANSI on "Diversification of Animal Nutrition Research in the changing scenario".	NIANP, Adugodi, Bangalore – 30.
25	Dr. R.Jayashree,	02-09-2009 to 22-09-09 at Madras Veterinary College, Chennai	ICAR Winter School on "Bioinformatics & its application in Animal Health and Veterinary Research"	Bioinformatics,MVC,T ANUVAS, and ICAR
26	Dr. M.R.Jayashankar, Prof & Head	26 <sup>th</sup> to 28 <sup>th</sup> Nov 2009 at MVC, Chennai	National seminar	TANUVAS & ISAGB
27	Dr. C.S Nagaraja	10th and 11th, Feb. 2010	National Seminar on 'Challenges to Domestic animal Biodiversity and Action Plan for its Management and Utilization'	SOCAB and Anand Agriculture University, Anand
28	Dr.U.Krishnamoorth y	25.5.09 to 30.5.09 Kedha state, Malaysia	Co-operative Dairying – problems & prospectus	Dept. of Vety. Services, Kedah, Malaysia
29	Dr. U. Krishnamoorthy	13.6.09	Experience sharing workshop on Wild Animal Diseases and Management	KVAFSU, Bidar
30	Dr.Y.B. Rajeshwari	15.5.09	Occupational health and safety in Laboratory animal house	Indian Institute of Science (IISC), Bangalore
31	Dr.Y.B. Rajeshwari	IISC , Bangalore 9 <sup>th</sup> January 2010	CPCSEA Workshop for IAEC members	Indian Institute of Science, Bangalore & CPCSEA, Ministry of Environment & Forests, Govt. of India
32	Dr. H.N.N. Murthy	PDP, Hyderabad 09.07.2009 & 10.07.2009	National workshop on Rural poultry	PDP, Hyderabad
33	Dr. H.N.N. Murthy	BAU, Ranchi 03.10.2009 to 04.10.2009	Presented the progress report of AICRP on poultry breeding for meat of Bangalore center .	XXVII Scientists meet of AICRP , BAU, Ranchi
34	Dr. H.N.N. Murthy	Kerala Agricultural University, Trishur 11.10.2009 to 13.10.2009	IV World water fowl conference	Kerala Agricultural University, Trishur



35	Dr. H.N.N. Murthy Jayanaik	Veterinary college and Research Institute, Namakkal, Tamil Nadu 03.10.2009 to 04.10.2009	International poultry Expo and conference- 2010	Veterinary college and Research Institute, Namakkal, Tamil Nadu
36	Dr. Nadeem Fairoze	Veterinary College & Research Institute, Namakkal 12 <sup>th</sup> and 13 <sup>th</sup> November	Wealth from livestock and Agricultural waste	Dept. of Meat Science & Technology, VC & RI, Namakkal
37	Dr. Nadeem Fairoze	NIMHANS, Bangalore 21-23 December, 2009	Specialized Processed foods For Health and Nutrition: Technology & Delivery	AFST, CFTRI, DFRL and NDRI, Bangalore
38	Dr. S. Wilfred Ruban	Central Institute of Post Harvest Technology (CIPHET), Ludhiana October 22 to Nov 11, 2009	"Recent Developments in Post Harvest Processing and Value addition to Livestock Produce"	Indian Council of Agricultural Research (ICAR)
39	Dr.K.Satyanarayan	Bidar, 4-5 <sup>th</sup> September, 2009	National workshop on Strategies for Extension education in Animal Husbandry & fisheries sector for the next decade	Directorate of Extension, Bidar.
40	Dr. V. Jagadeeswary	Vet. College, Bangalore 24.04.2009	One day workshop on "Grazing problems of pastoralists/livestock keepers	Vet. College, Bangalore & Organic farmers association of Karnataka
41	Dr. V. Jagadeeswary	Thanjavur 4-6th January 2010	Ethno-Veterinary Practices --- -	TANUVAS, Chennai
42	Dr.S.Yathiraj	College, Hebbal, Bangalore – 25 <sup>th</sup> February 2010	Training Programme on Diagnosis of Rabies	Dr.S.N.Madhusudhana, Additional Professor of Neurovirology, NIMHANS, Bangalore
43	Dr.S.Yathiraj	V Teams Surgical Sterilization Centre at Mumbai – 12 <sup>th</sup> March 2010	Hands on Training course on Ultrasound	conducted by Dr.Clifford Berry, DVM from USA
44	Dr. V. Jagadeeswary	College, Bangalore. 1-31 <sup>st</sup> March 2010	"Trends and Perspectives in the Biology, Ecology and control of Parasitic diseases"	Centre for faculty training, Department of Veterinary Parasitology, Veterinary College, Bangalore
45	Dr.S.Yathiraj	Indian Buiatricians Association, Shimoga – 14.02.2010	Management of Ruminant Disorders	Indian Buiatricians Association

<b>Veterinary College, Bidar</b>				
46	Dr. Pradeep Kumar	TNVASU Chennai 2 <sup>nd</sup> to 22 <sup>nd</sup> September 2009	“Bioinformatics and its applications in animal health and veterinary research”	Bioinformatics center, TNVASU
47	Ashok pawar	Lucknow, Nov 4-6,2009	New concepts and innovative technologies in Veterinary Anatomy	IAVA
48	Dr. D.T.Naik	Tiruvananthapuram, 18 Aug.2009	International Seminar on Nuro toxicological pathology	Kerala Veterinary Council
49	Dr.K.C. Veeranna	NIRD, Hyderabad, 30-11-2009 to 4-12- 2009	Management Development workshop on priority setting, monitoring and evaluation of agriculture and livelihood based projects	NAIP
50	Dr.K.C. Veeranna	Bangalore, 10-11- 2009 to 11-11-2009	Alternative livelihood options	UAS, Dharwad
51	Dr. Shivakumar K.Radder	Gulbarga, 23-09- 2009 to 24-09-2010	Second conference of Karnataka Science & Technology Academy	Gulbarga University, Gulbarga
52	Dr,Ramachandra.B	NIANP, Bangalore, 17-19 <sup>th</sup> Dec 2009	Diversification of Animal Nutrition Research in Changing Scenario	ANSI
53	Dr. N.A. Patil, Dr. Sandeep H.	Veterinary College, Bangalore 21 <sup>st</sup> to 22 <sup>nd</sup> January 2010	Annual Convention of ISACP on novel approaches in canine practice	Indian society for advancement of canine practice
54	Dr R B Dhabale	Nammakal, 10-12Dec 2009	Expanding the horizons of reproductive technologies for augmenting fertility in farm and pet animals in the global scenario	ISSAR and TANUVAS, Namakkal
55	Dr. Vivek M. Patil	Gulbarga Univ. Gulbarga 23-24 Sep, 2009	“Science & Technology in Human Development”	Karnataka Science & Technology Academy
56	Dr. Vivek M. Patil	College of Agriculture, Raichur 2-3 Dec 2009	“Agro-Informatics & Precision Farming”	UAS Raichur
57	Dr.B.Jagannatha Rao	Ludhiana, Oct 22toNov 11	Recent developments in post harvest processing & Value addition to livestock produce	CIPHET, ICAR,Ludhiana
<b>Veterinary College, Shimoga</b>				
58	Dr. Kotresh	NIANP, Bangalore, 10 <sup>th</sup> to 30 <sup>th</sup> Nov. 2009.	Genomics & Proteomics in animal reproduction	ICAR & NIANP
59	Dr. K. Ganesh Udupa, Dr. V. B: Shettar Dr. Ravi Raidurg	Veterinary College, Hebbal, Bangalore on 09 Dec. 2009.	Challenges to the Veterinary Profession	Common Wealth Veterinary Association & KVAFSU
60	Dr. B.P. Ravikumar	Namakkal, 10 <sup>th</sup> to 12 <sup>th</sup> Dec. 2009.	‘Expanding the horizons of reproductive technologies for augmenting fertility in farm and pet animals in the global scenario’ during	ISSAR, VC & RI, Namakkal, TN, TANUVAS



61	Dr. Ravi Raidurg	Veterinary College, Hebbal, Bangalore, during 21 <sup>st</sup> to 23 <sup>rd</sup> Jan. 2010.	“ Novel approaches in companion animal practice”	ISACP & Veterinary College, Hebbal, Bangalore, India on 21-23 Jan 2010.
62	Dr. Ravi Raidurg	CFSPTI, Hesserghatta, Bangalore on 20 <sup>th</sup> Feb. 2010.	Annual symposium of Indian Society for Study of animal Reproduction	ISSAR- Karnataka chapter
<b>Veterinary College, Hassan</b>				
63	Sri. Devaraja Naika.H	16-01-2010 to 25-01-2010 Mysore	Training & Orientation to NSS Programme officers	TOC, Mysore University, Mysore
64	Dr.Phaniraja, K.L.	October 20 -30, 2009. Ludhiana	International IAVP conference	Department of Veterinary Pathology GADVASU, Ludhiana -141 004
65	Dr.M.S.Vasanth	11 <sup>th</sup> -13 <sup>th</sup> Nov 2009, Ludhiana	33 <sup>rd</sup> Annual congress of ISVS and International symposium on current trends in diagnostic imaging and management of surgical affections in dairy animals”	Department of Veterinary Surgery & Radiology GADVASU, Ludhiana -141 004
66	Dr.Phaniraja, K.L.	16 <sup>th</sup> Dec to 19 <sup>th</sup> Dec 2009 Bangalore - 29	“36 <sup>th</sup> Annual Conference of Indian Immunology Society	National Institute of Mental Health and Neuroscience, BANGALORE – 29
67	Dr.M.S.Vasanth, Dr.S.B.Prasanna and Dr.Ravikumar,	21 <sup>st</sup> to 23 <sup>rd</sup> January, 2010 Bangalore	7 <sup>th</sup> Annual Convention of the Indian Society for advancement of canine practice on “Novel approaches in companion animal practice”	KVAFSU, Veterinary college, Hebbal and Indian Society for Advancement of Canine Practice
<b>Dairy Science College, Hebbal, Bangalore</b>				
68	Dr.H.Manjunatha	NDRI, Karnal Feb. 1 <sup>st</sup> to 21 <sup>st</sup> 2010	‘Recent Advances in Dairy Nutraceuticals and Bioinformatics applications’	Faculty of the division of Animal Biochemistry, NDRI, Karnal
69	Dr. R.Prabha	NDRI, Karnal March 4 <sup>th</sup> to 7 <sup>th</sup> 2010	Training on ‘gene sequencing of lactic acid bacteria’	Faculty of the dept. of Dairy Microbiology, NDRI, Karnal
70	Dr. H. Manjunatha & Mr. B. Ramachandra	Bangalore, 24.7.09	Food Validation .	Ambetronics Engineers Ltd
71	Dr. H. Manjunath	Bangalore, 4.9.09 to 24.9.09	Tech in Molecular Biology	Bio-Tech Dept. UAS, GKVK
72	Dr. R. Prabha	Feb –March 2010	Isolation of organisms	NDRI, Karnal

## 6. Radio/TV Programme

Sl.No	Name of the Scientist	Topic	Date and Broadcasting Station
<b>Veterinary College, Hebbal, Bangalore</b>			
1	Dr.S.Yathiraj	Vaccination in Cattle and the same was telecasted on DD-I on 23.04.2009 in Krishi Ranga (6.00 to 6.30 pm) and Chandana on 24.04.2009 at 5.30 AM	22.04.2009 in DD – 1.
2	Dr.S.Yathiraj	Behaviour and management of dogs	06.05.2009 TV9 News
3	Dr.S.Yathiraj	Discussed on Weimaraner Dog breed	12.05.2009 TV9 News channel
4	Dr.N.B.Shridhar	Common plant toxicities in cattle and first aid	14-07-2009
5	Dr.S.Yathiraj	Effect of Solar eclipse on Animal Behavior	15.07.2009 TV Programme on Aaj Tak
6	Dr.S.Yathiraj	Verbattle Vertex 2009 along with 100 students and staffs from Veterinary College, Bangalore	21.08.2009 Udaya TV Programme -
7	Dr.H.A.Upendra	Rabies-Dog bite and its control	AIR.
8	Dr.H.A.Upendra	Mastitis in cows and its prevention	AIR
	Dr.M.Narayana Bhat	Rabies control in Bangalore – panel discussion	TV 9
9	Dr. L. Ranganath and Dr. K. M. Srinivasa Murthy	Metacarpal fracture (left) in a panther belonging to BBP	TV 9 and News 9
10	Dr. R. Bhaskaran	Care and management of calves	8.4.09
11	Dr. R. Bhaskaran	Calf rearing	8.7.09 , 12.8.09
12	Dr. R. Bhaskaran	Heifer management	15.7.09, 18.8.09
13	Dr. K. Venkata Reddy	“Swarnadhara- a poultry bird suitable for backyard rearing” ANNADHATHA Programme	E- T.V 26.05.2009 Bangalore
14	Dr.K. Satyanarayan	Control of diseases in Pigs	22 <sup>nd</sup> April, 2009 – ETV and subsequently telecasted several times.
<b>Veterinary College, Bidar</b>			
15	Dr.B.V.Shivaprakash	Life saving surgeries in cattle	10.11.2009, AIR, Gulbarga
16	Dr. K.C. Veeranna	Live phone in programme	29-01-2009, DD – Gulbarga
17	Dr. K.C. Veeranna	Diseases affecting cattle in summer and its management	17-05-2009, DD – Gulbarga
18	Dr. K.C. Veeranna	Care of cattle in rainy season	07-08-2009, DD – Gulbarga
19	Dr. K.C. Veeranna	Live phone in programme on summer management of livestock	18-02-2010, DD – Gulbarga
20	Dr. K.C. Veeranna	Summer management of poultry	05-02-2010, DD – Gulbarga
21	Dr M K Tandle Dr R G Bijurkar	Semen collection in Deoni bulls, artificial insemination Frozen semen thawing	Feb. 2010. Bangalore Doordarshan



<b>Veterinary College, Shimoga</b>			
22	Dr. Nagabhushan, V.	Balance ration	10-04-09, AIR, Bhadravathi
23	Dr. Kavitharani, B.	Prevention and control of FMD	26-05-09, AIR, Bhadravathi
24	Dr. Manjunatha, L.	Enrichment of dry fodder	28-05-09, AIR, Bhadravathi
25	Dr. Manjunatha, L.	Unconventional feed & fodder resources	14-08-09, AIR, Bhadravathi
26	Dr. Shambhulingappa	Control of ecto & endo parasites in cattle	28-08-09, AIR, Bhadravathi
27	Dr. V. B. Shettar	Conservation of local breeds, why & how?	28-08-09, AIR, Bhadravathi
28	Dr. K. Ganesh Udupa	Prevention & control of FMD	15-09-09, AIR, Bhadravathi
29	Dr. Nagabhushan, V.	Integrated poultry farming	23-01-10, AIR, Bhadravathi
<b>Veterinary College, Hassan</b>			
30	Dr. A.S.Jayanna	Anti-Nutritional Factors of feeds (Kannada)	5-2-10 All India Radio, Hassan
31	Dr.M.S.Vasanth	Effects of plastics on cattle(Kannada)	6-2-10 All India Radio, Hassan
32	Dr.K.L.Phaniraj	Communicable diseases and their control in livestock.(Kannada)	11-2-10 All India Radio, Hassan
<b>Dairy Science College, Hebbal, Bangalore</b>			
33	Dr.Ramachandra Rao	Discussion on dairy products preparation	24.08.2009 Bangalore
<b>College of Fisheries, Mangalore</b>			
34	Dr. S.M. Shivaprakash	Responsible fishing and Management of marine fishery resources	22.08.2009 at AIR, Mangalore.
35	Dr. G.B. Purushothama	Polyculture of fishes	28.08.2009 at AIR, Mangalore
36	Dr. S.M. Shivaprakash	FAO's Code of conduct for responsible fisheries	Community Radio Sarang 107.8, Mangalore on 28.09.2009
<b>Institute of Animal Health and Veterinary Biologicals Hebbal, Bangalore</b>			
37	Dr. Byre Gowda	Swine fever, Blue Tongue, Swine fever and Swine Flu – Differences	DD Chandana
38	Dr. Raveendra Hegde	FMD and its control	DD Chandana
39	Dr. Amitha Reena	"Sheeppox"	DD Chandana
<b>Livestock Research and Information Center (Deoni)</b>			
40	Dr. Satish Biradar	Bio Village	Chadanna TV. Nov 2009
41	Dr.Lakshmipathi M.T	"Eco-friendly and Sustainable Shrimp Farming" and Sustainable Fishing and its Management	AIR, karwar
42	Mr.Manjappa N	"Culture of Commercial Important	AIR, karwar



<b>Fisheries Research &amp; Information Center (I), Hebbal</b>			
43	Dr.K.N.Prabhudeva	Fish seed production and rearing	08-07-2009, AIR, Bengaluru
44	Dr.K.N.Prabhudeva	Live Phone in Programme on Inland Fisheries	02-09-2009, Chandana, Doordharshan, Bengaluru

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

Sl. No	Name of the College / Station	No. of Health Camps / Livestock / Fish show organized	No. of cases treated / advised
1	Veterinary College, Habbal, Bangalore	52	5,995 cases
2	Veterinary College, Bidar	49	9,418 cases
3	Veterinary College, Shimoga	05	1,400 cases
4	Dairy Science College, Hebbal, Bangalore	03	100 cases
5	College of Fisheries, Mangalore	09	341 cases advised
6	LRIC, Nagamangala	03	412 cases
7	IAH&VB	13	1,088 cases

#### 8. Demonstration/Exhibitions/Field days/Pashu/Matsyamela

Sl. No	Name of the College / Station	No. Demonstration / Exhibitions / Field das / Pashu-Matsyamela	Name of Scientists
1	Veterinary College, Habbal, Bangalore	12	Scientists of the College
2	Veterinary College, Bidar	02	Scientists of the College
3	Veterinary College, Shimoga	06	Scientists of the College
4	Dairy Science College, Hebbal, Bangalore	04 Demonstration & 2 mela	Scientists of the College
5	College of Fisheries, Mangalore	04 Demonstration & 6 mela	Scientists of the College
6	LRIC, Nagamangala	01	Scientists of the College
7	LRIC, Deoni	01	Scientists of the College
8	IAH&VB	1	Scientists of the College
9	FRIC, Hesaraghatta	2	Scientists of the College
10	FRIC, Hebbal	01	Scientists of the College

### 9. Animal Health Care Services to Farmers

Sl. No	Department	Service provided	Total No.
1	Veterinary College, Habbal, Bangalore	Service provide to farmer Cattle and Buffaloes, Sheep and Goats, Dog etc., Examination of Infertile cows for culling, Examination of Infertile cows, Andrological Examination of bulls, Canine, Bovine, Equine, Piglets, Rabbits etc.,	20691
2	Veterinary College, Bidar	Service provide to farmer Cattle and Buffaloes, Sheep and Goats, Dog etc.,	18632
3	Veterinary College, Shimoga	Service provide to farmer Cattle and Buffaloes, Sheep and Goats, Dog etc.,	638
4	Dairy Science College, Hebbal, Bangalore	Service provided to farmers to cattle	26

### 10. Diagnostic service provided

Sl. No	Department	Diagnostic service provided	Total No.
1	Veterinary College, Habbal, Bangalore	Samples like skins, nails, horns, tusks and bones, Faecal sample examination, Blood smear examination, Identification of parasites, Andrological Examination of bulls, Examination of Infertile cows for culling, Examination of Infertile cows, Andrological Examination of bulls, Canine, Bovine, Equine, Piglets, Rabbits etc.,	3691 cases
2	Veterinary College, Bidar	Antibiotic sensitivity of the milk sample, Microbiological quality of water sample, X-ray Services, Milk and blood samples analysis, post mortem examinations of various livestock animals and poultry, Examination of clinical samples like blood, feces and skin scraping etc.,	1632
3	Veterinary College, Shimoga	Postmortem of various animals received from, National Diagnostic Virology Laboratory, GOK, Shimoga, Tyavarekoppa Wild Life Sanctuary, Fecal samples - from cattle, buffaloes, sheep, goats poultry, dogs and cats, etc	650
4	Veterinary College, Hassan	Haemoprotozon diagnosis, fecal test, Blood physiological parameters etc.,	55
5	College of Fisheries	PCR test for shrimps, Microbiological analysis of fish, shrimp, food, water, salt, industrial samples, RapiDot	275
6	IAH&VB	Diagnostic service provided	82905

**11. Supply of chicks/animals/fish/fodder seeds/root slips**

Sl. No.	College / Satation	Supplied item and Quantity	Remarks/ Revenue generated (Rs)
1.	Veterinary College, Hebbal, Bangalore	Napier root slips 3,450 No.s, Cows (Auction sale) 3, Buffaloes (Auction sale) 2 Pigs & piglets 463, Sheep 23 Broiler Rabbits 125, Lab animals 593, Day old chicks 116172+1902+99220+1864, Day old parent chicks 8814+176, Hatching eggs 20368+1483, Table eggs 28000+29143 Broken eggs 1160+1166, Feed 927 kgs Manure 22 tons, Birds 8043 Paddy husk 582 kgs, Quails – Birds 573, Table Eggs 3693 Chicks 703 and Turkey birds 23	Generated amount of Rs. 53,59,346.75
2	Veterinary College, Bidar	Barseem seeds – 50 Kg, Bajra seeds – 50 Kg, Cow pea Fix-42 – 25 Kg, Cow pea EC-4216 – 25 Kg, Lucerne – 50 Kg, Oats – 25 Kg, Sorghum 992 – 50 Kg, Sourghum SSG-59-3 – 50 Kg, Stylo scabra – 25 Kg, Stylo hemata – 25 Kg, Mineral mixture – 1500 Kgs, UMB – 500 blocks Neerbija plants – 10, Root slips – 10000, goats Feed – 1750 kg, Maize seeds – 100 Kg, Vermicompost – 1615 Kgs	Provided to NAIP beneficiaries
3	IAH&VB	Black quarter-10.66, Haemorrhagic Septicaemia-52.27, Enterotoxaemia-87.21, Anthrax-1.756, Ranikhet 'F'- 4.66, Ranikhet R2B-77.09, <i>B. abortus</i> Plain Antigen-0.002, Sheep Pox Vaccine -27.78, Tissue Culture Rabies Vaccine-0.689, <i>Salmonella pullorum</i> Coloured Antigen-0.1225, PPR-87.67 total of 349.90 lakhs dose was sold	Total generated income is about of Rs. 299.29 lakhs
4	Fisheries Research & information Center (I) Hesaraghatta, Bangalore	Fish seed (Cultivable) - Catla, Rohu, Ammur & Common carp and Ornamental fish - Gold fish, mollies, platies, Red Swordtail, Green Swordtail, Gouaramies & Guppies etc	total of 1,21,422 fish were supplied to 1854 farmers
5	FRIC, Hebbal	Fish seeds :13.73 lakhs	Supplied to farmers

**12. Consultancy/Advisory Services**

Sl. No.	College / Station	Total number	Remarks
1	Veterinary College, Habbal, Bangalore	1100	Consultancy services in Poultry farming, Dairy farming, rabbit, sheep, piggery, emu, quails, fish, shrimp and ornamental fish farming and vaccination, disease diagnosis were provided to farming community to improve the socio-economic condition.
2	Veterinary College, Bidar	650	
3	Veterinary College, Shimoga	45	
4	Veterinary College, Hassan	23	
5	Dairy Science College, Hebbal,	70	
6	College of Fisheries	23	
7	IAH&VB	10	
8	LRIC, Nagamangala	04	
9	LRIC, Deoni	05	
10	FRIC, Hebbal	12	
11	FRIC, Hesaraghatta,	10	
12	FRIC, Ankol	08	



### 13. Activities on Village/Farm adoption

#### Veterinary College, Hebbal, Bangalore

Veterinary College, Hebbal has adopted Solur village, Devanahalli Tq for the over development of farming community. Activities in the adopted village are as follows

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

#### Veterinary College, Bidar

Veterinary College, Bidar Scientists / faculties are continuously organising Animal health camp for the benefit of the farming community. Apart from this the faculty periodically Visits Thakur Dairy farm, Humanabad, Quadri sab farm, Bagdal and Ramthery Farm, Shahapur Gate to routine health care & advisory services

#### College of Fisheries, Mangalore

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.

### 14. Distinguished Visitors to the institutes

Sl. No.	Name	Designation & Institute	Date	Purpose
<b>Veterinary College, Hebbal, Bangalore</b>				
1	Dr.Karkanis	MD, Petcare	07.07.2009	Discussion regarding Industry / Veterinary College Research Projects
2	Dr.Pradeep	Research Associate, Gwangju Institute of Science & Technology, South Korea	29.07.2009	Delivered a talk on "Research Career Opportunities in South Korea" for the benefit of the Postgraduate students
3	Luis L.Rohigug, Marculla Withning and Cyril M. Rau	USA	18.08.2009	Discussion on Foot and Mouth Disease
4	Tal Arnon & Tal Conen	Israel	28.08.2009	Co-ordinated the visit of Israel delegates and presented the activities of the University and college.

5	Dr.Trevor R.Ames	DVM MS, Diplomate ACVS, Dean, College of Veterinary Medicine, University of Minnesota	01.10.2009	Meeting of the Officers of KVAFSU and Faculty Members, University of Minnesota concerned with Development of Small Companion Animal Facility Teaching Hospital, Avian Influenza Project and Signing of Revised Memorandum of Understanding
6	Dr. Michale G. Conzemium,	DVM, Ph.D, Diplomate ACVS, Professor, Veterinary Clinical Sciences, College of Veterinary Medicine, University of Minnesota.		
7	Mr.P.Srirama Rao,	Ph.D., Associate Dean for Research, Professor, Department of Veterinary and Biomedical Sciences. College of Veterinary Medicine, University of Minnesota		
10	Dr.V.Raghrame Gowda	President, KVA	03.12.2009	Meeting with regard to organization of Dog Show
11	Dr M. Rajashekarana	Technical Director, Diagnostic Research Laboratories, Royal Western India Turf Club, Mumbai		College Visit
23	Prof.S.K.Ray	President, ISACP	21.01.2010	National Congress on Canine Practice and 7 <sup>th</sup> Annual Convention of the Indian Society for Advancement of Canine Practice on "Novel Approaches in Companion Animal Practice" at the Hotel ATRIA, Bangalore
24	Prof A.K.Srivastava	Secretary General ISACP		
25	Dr.R.Venkataramanan	Joint Director, IVRI, Bangalore.		CAS Training Programme
26	Dr. Roger Baskin & Dr.Lara MacFarlane	Berry , CUO Unit, Biosecurity Victoria, DPI,	07.12.2009	To discuss about epidemiological investigation in India.
27	Dr. Tom Schubert	Neurologist, University of Florida	15.06.2009	To know the advances in Veterinary Surgery
28	Dr. Lan H. Douglas and Dr.S.Abdul Rahman	Veterinary Director, Australia	15.06.2009	To know the advances in Veterinary Surgery
29	Mr. Abdus Salam	President, Bangladesh Organic Products Manufacturers	10.9.2009	Dairy information

  
**Veterinary College, Bidar**

30	KMF secretaries	KMF secretaries Gulbarga, Bidar, Raichur	25-05-2009	Activities of the Deoni Bull, AI Technique, fodder plots
31	Dr M V Gupta and Dr S V N Rao	World Food price Laureate Hyderabad Professor and Head, AH & Extension, Pondechery Veterinary College	5.9.2009	To see the activities of the Department
32	Mrs Shameem Bano	Secretary, Dept of AH and VS, GOK	19.12.2009	To see the activities of the Department

**Veterinary College, Hassan**

33	Naveen Raj Singh	District Commissioner	17-08-2009	Official
34	Shri Revu naik Belamagi	Minister	29-08-2009	Official
35	Prakash J.S	MLA	29-08-2009	Official

**Dairy Science College, Hebbal, Bangalore**

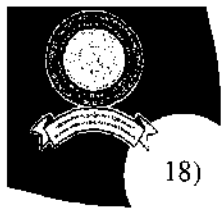
36	15 officials comprising of District administrative commission and sector Heads from ministry of Agriculture	Ministry of Agriculture Royal government of Bhutan	29.3.2010	To study the activities of Students Experimental Dairy Plant(SEDP) and Dept. of Dairy Tech
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## V PUBLICATIONS

### 1. Research Papers

**Veterinary College, Hebbal, Bangalore**

- 1) Hanamanta Nyamagonda, Narayana Swamy, M., Veena, T., Narayana Swamy, H. D. And Jayakumar, K. 2009. Effect of Prebiotic, Probiotic and G-Probiotic SPL® on certain hematological parameters in broiler chickens. *Veterinary World*, 2 : 344-346.
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- 3) Gurunath Gouda Patil, Girish Kumar V, Ramachandra, S.G and Nandi S (2009). Protein profiles in epididymal tissue of normal and castrated bulls. *The Indian Vet. Journal* 86: 781-783
- 4) Mohan, K., N.B. Shridhar, K. Jayakumar and M. Manafi, (2010). Comparison of milk estrogen and progesterone concentration in induced heifers and normally calved lactating cows. *Asian J. Anim. Vet. Adv.*, 5: 260-265
- 5) Mohan, K., N.B. Shridhar, K. Jayakumar, T.G. Honnappa and H.S. Madhusudhan (2010). Lactation induction protocols and cost benefit analysis in repeat breeding cows. *Indian Journal of Animal Science* 44(1).
- 6) Mohan, K., Ananda, K.J., Shridhar, N.B., G.C. Puttalakshamma and Placid D'Souza (2009). Corneal opacity due to *Scteria digitata* in Jersey cross bred cow and its surgical management. *Veterinary World* 2(2):69-70.
- 7) Nirmala, G.C. N.B. Shridhar, B.R. Suchitra, K. Veena, M.L. Sathyanarayana and K. Jayakumar (2009). Toxicity of *Aspergillus wentii* in buffalo bull calves. *Indian Veterinary Journal* 86(2):215-216.
- 8) Ravikumar, C., Shridhar, N.B., Jayakumar, K. and Honnegowda (2009). Effect of long acting oxytetracycline on humoral immune response in rats. *Indian Veterinary Journal*, 86:871-873.
- 9) Shridhar, N.B. (2009). Efficacy of ketovet in treating bovine ketosis in cows. *Indian Journal of Animal Research*, 43 (3):197-199.
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- 11) Shridhar, N.B. (2010). Efficacy of Synoderm in treating commercial cattle feed induced dermatitis. *Indian Journal of Animal Research*, 43 (4):307.
- 12) Shridhar, N.B., Varadaraju, B.R. and Narayamma, K. (2010). *Christella parasitica* toxicity in cross bred male calves. *Indian Journal of Animal Science*, 44(1):136
- 13) Shridhar, N.B., Veena, K., Suguna, Rao and Jayakumar, K. (2009). Subchronic toxicity of *Penicillium resticulosum* in mice. *Journal of Veterinary Pharmacology and Toxicology*, 8(1-2):63-65.
- 14) Shridhar, N.B. and Varadaraju, B.R. (2009). Toxicity study of *Christella parasitica* toxicity in rabbits. *Indian Veterinary Journal*, 86:11290-1291.
- 15) G. R. Shivaprasad, N. B. Shridhar, S. Yathiraj, H. D. Narayanaswamy and K. Jayakumar, Toxicity studies of *Aspergillus terreus* culture filtrate from paddy straw in mice in *Indian Veterinary Journal*, Article No 782/08
- 16) K. Mohan, N. B. Shridhar, T. G. Honnappa, S.G. Ramachandra, K. Jayakumar, K. N. Pavankumar and G. R. Shivaprasad; Milk production and reproductive performance of crossbred heifers induced into lactation. *Indian Journal of Dairy Science*. IDA:PUB:005:371 dated 26-04-2010
- 17) Arun M. Dafedar, Placid E. D'Souza, Ananda, K.J. and Puttalakshamma, G.C. 2008 Prevalence of Sarcocystosis in goats slaughtered at an abattoir in Bangalore, Karnataka state. *Veterinary World* 1.11,335-337



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- 20) Sumi Cherian and Placid E. D'Souza 2009 Coprological Diagnosis of Ovine Schistosomosis by different laboratory techniques. *Veterinary World* 2,7, 271-273
- 21) Prathiush P. R., Ananda K.J., and Placid E. D'Souza 2009 Comparison of excretory-secretory antigen and positive faecal supernatant antigen in the detection of *Echinococcus granulosus* infection in dogs by CIEP. *Veterinary World* 2,11, 421-422
- 22) Sumi Cherian and Placid E. D'Souza 2009 Prevalence of Schistosomosis in sheep in Karnataka. *Journal of Veterinary Parasitology*. 23,1, 93-94
- 23) Mamatha, G.S., Placid E. D'Souza, and V V Suryanarayana 2009 RAPD-PCR assay for differentiation of *Sarcocystis bovicanis* and *Sarcocystis bovifelis* in cattle. *Current trends in Parasitology* pp101-107 eds.Veena Tandon, Arun K.Yadav and Bishnupada Roy. Panima Publ.Corp. New Delhi
- 24) Vasudha Kemmanu, Padmalini Mahendradas, Placid E. D'Souza, Naresh Kumar Yadav and Bhujanga Shetty K. , 2009 Unilateral acute conjunctivitis due to *Ophthalmomyiasis externa* caused by larvae of *Oestrus ovis*. *Journal of Paediatric Ophthalmology and Strabismus* 46, 6, 380-381.
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- 30) K.Veena, K, N B Shridhar, S.C.Chandrashekar V.B.Siddaraju, Suguna Rao G.C.Nirmala, Jayakumar, M 2009 Toxicity studies of *Aspergillus glaucus* from paddy straw on mice *Indian Veterinary Journal*, 86 :29 31
- 31) T.S.Dayananda, Suguna Rao, S.M.Byregowda, M.L.Satyanarayana, K.C.Jayachandra and V.T.Shilpa Prevalence of skin and subcutaneous tissue neoplasms in dogs *Indian Veterinary Journal*, 86 :671 673
- 32) T.S.Dayananda, Suguna Rao, S.M.Byregowda, M.L.Satyanarayana, K.C.Jayachandra and V.T.Shilpa Proliferation Index in squamous cell carcinoma of dogs in *Indian Veterinary Journal*, Article No 365
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- 44) G. D. Paradeshi & L. Ranganath, 2009 Hemato biochemical changes following external skeletal fixation for tibial fractures in dogs Indian Vet. J., May 2009; 86; 469-471
- 45) L. Ranganath & V. Mahesh 2009 Surgical management of large paraprostatic cyst in dogs Indian J. Vet. Surg; 30(1); 57
- 46) V. Mahesh & L. Ranganath 2009 Splenic abscess in a dog. Indian J. Vet. Surg; 30(1); 58
- 47) V. Mahesh & L. Ranganath 2009 Congenital rectovaginal fistula in a lamb and its surgical correction Intas polivet 10 (2); 304-305
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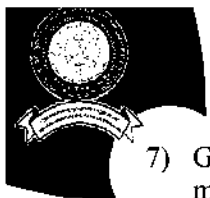
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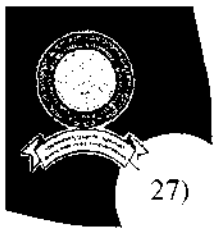
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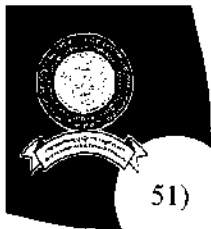
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- 24) Roopadevi Y.S H.D.Narayana swamy, M.L.Satyanarayana, M.Narayana swamy, K.Jayakumar and B.Umakanth. Pathology of lymphoid organs in chick embryos due to chlopyriphos toxicity. Paper presented in II south zone conference and National symposium on Pathobiology of poultry and laboratory animal diseases of IAVP organized by IAVP South Zone and Department of Veterinary Pathology, Namkkal during 5<sup>th</sup> to 6<sup>th</sup> March 2010.
- 25) Ravikumar p, Suguna rao, M.L.Satyanarayana, Srikrishna islor, Azeemulla, M.Thiageeshwaran, G.Kavitha, G mallikarjuna & M.Srikanth. Estimation of somatic cell count (SCC) in the milk samples of rabbits infected with E.coli strains (0936, 0147) isolated from cases of bovine mastitis. Paper presented in II south zone conference and National symposium on Pathobiology of poultry and laboratory animal diseases of IAVP organized by IAVP South Zone and Department of Veterinary Pathology, Namkkal during 5<sup>th</sup> to 6<sup>th</sup> March 2010.
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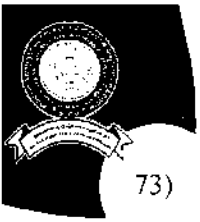


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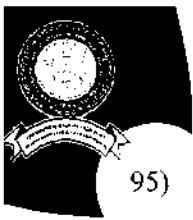
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- 110) B.Ramachandra, K.Chandrapal Singh and U.Krishnamoorthy (2009): Effect of supplementing enzymes to urea treated sorghum (*Sorghum bicolor*) stover diet on body weight gain in Deoni calves. Abstract in World conference of Animal Nutrition Association(ANAWC) held at NASC Complex, New Delhi, on 14-17<sup>th</sup> February. (Extended abstract, pp 203)
- 111) S.M.Bhalerao, S.Mallikarjunappa and B.Ramachandra (2009): Study of agronomical characteristics of Jowar (*Sorghum bicolor*) varieties in the Bidar district of Karnataka. . Abstract in World conference of Animal Nutrition Association(ANAWC) held at NASC Complex, New Delhi, on 14-17<sup>th</sup> February. (Extended abstract, pp 29)
- 112) S.M.Bhalerao, S.Mallikarjunappa and B.Ramachandra (2009): Effect of feeding Jowar (*Sorghum bicolor*) varieties on body weights of sheep under intensive sheep production. Abstract in World conference of Animal Nutrition Association (ANAWC) held at NASC Complex, New Delhi, on 14-17<sup>th</sup> February. (Extended abstract, pp 222)
- 113) N.Prakash, B.Ramachandra, Shrikant Kulkarni, A.M. Kotresh and B.H. Pavithra (2009): Effect of testosterone enanthate on haematological and blood biochemical profile in sheep. Abstract in XVIII Annual conference of The society of Animal Physiologists of India held at NIANP, Adugodi, Bangalore, on 26-28<sup>th</sup> February.
- 114) N.Prakash, B.Ramachandra, A.M. Kotresh, Shrikant Kulkarni, B.H. Pavithra and S.G. Ramachandra (2009): Testosterone enanthate improves growth and preferred carcass characteristics in stall fed sheep. Abstract in XVIII Annual conference of The society of Animal Physiologists of India held at NIANP, Adugodi, Bangalore, on 26-28<sup>th</sup> February.
- 115) M. Basavaraj, V.Nagabhushna, B.Ramachandra and S.M. Bhalerao (2009): Effect of dietary supplementation of pulvis curcuma longa Linn on the body weights and meat characteristics of broiler rabbits under



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- 118) B.Ramachandra, K.Chandrapal Singh, U.Krishnamoorthy, U.S.Biradar, R.G.Gloridoss, T.M.Prabhu and Siddramanna (2009) : Effect of feeding frequency and protein or urea supplementation to sorghum (*Sorghum bicolor*) stover on the performance of growing Deoni cattle. Poster presented in XIII Biennial conference of The Animal Nutrition society of India held at NIANP, Adugodi, Bangalore, on 17-19<sup>th</sup> December.
- 119) S.M.Bhalerao, S.Mallikarjunappa , B.Ramachandra, V.Nagabhushana and N.Prakash (2009): Study of in vitro digestibility of different varieties of jowar (*sorghum bicolor*) straw and grains. Abstract in XIII Biennial conference of The Animal Nutrition society of India held at NIANP, Adugodi, Bangalore, on 17-19<sup>th</sup> December.
- 120) S.M.Bhalerao, S.Mallikarjunappa , B.Ramachandra, V.Nagabhushana and N.Prakash (2009): study of nutrient digestibility of different varieties of jowar (*sorghum bicolor*) in sheep. Abstract in XIII Biennial conference of The Animal Nutrition society of India held at NIANP, Adugodi, Bangalore, on 17-19<sup>th</sup> December.
- 121) S.M.Bhalerao, S.Mallikarjunappa B.Ramachandra, V.Nagabhushana and N.Prakash (2009): Study of dry matter intake of jowar (*sorghum bicolor*) straw and grains under intensive sheep production. Abstract in XIII Biennial conference of The Animal Nutrition society of India held at NIANP, Adugodi, Bangalore, on 17-19<sup>th</sup> December.
- 122) M.K Mahantesh, S.Mallikarjunappa , B.Ramachandra, V.Nagabhushana and S.M.Bhalerao (2009): Study of haematology parameters of sheep fed with jowar (*sorghum bicolor*) varieties. Abstract in XIII Biennial conference of The Animal Nutrition society of India held at NIANP, Adugodi, Bangalore, on 17-19<sup>th</sup> December.
- 123) N.A. and Shivaprakash B.V. 2010. Diagnosis and therapeutic management of traumatic Pericarditis in a non-descript cow. 28<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine held between 17<sup>th</sup> to 19<sup>th</sup> February 2010 at Veterinary College, Hyderabad. pp. 35
- 124) N.A. Patil and Vivek Kasaralikal. 2010. Effect of birth weight on mortality in female surti buffalo calves. 28<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine held between 17<sup>th</sup> to 19<sup>th</sup> February 2010 at Veterinary College, Hyderabad. pp. 36
- 125) Santosh P.S., Patil N.A., Kasaralikal V.R., Sandeep H., Bhojar R., Karlewad V.S. and Saroj B.S. 2010. Prevalence of acarid infestations among dogs in and around Bidar. 28<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine held between 17<sup>th</sup> to 19<sup>th</sup> February 2010 at Veterinary College. Hyderabad. pp. 103
- 126) Bhojar R., Halmandge S.C., Santosh P.S., Kasaralikal V.R., Karlewad V.S., Udupa K.G. And Patil N.A. 2010. Prevalence of haemorrhagic septicaemia in cattle and buffaloes. 2010. 28<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine held between 17<sup>th</sup> to 19<sup>th</sup> February 2010 at Veterinary College, Hyderabad. pp. 36



- 127) Halmandge S.C., Bhojar R., Kasaralikal V.R., Santosh P.S., Shinde S.B. Udupa K.G. and Patil N.A. 2010. Prevalence of strongylosis in small ruminants. 28<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine held between 17<sup>th</sup> to 19<sup>th</sup> February 2010 at Veterinary College, Hyderabad. pp. 73
- 128) Bhojar R., Karuna I., Anilkumar M.C., Folia G. and Patil P.K. 2010. Moniliasis in an Asian elephant a case study. 2010. 28<sup>th</sup> Annual convention of Indian Society for Veterinary Medicine held between 17<sup>th</sup> to 19<sup>th</sup> February 2010 at Veterinary College, Hyderabad. pp. 142
- 129) R. B. Dhabale, K. Venugopal Naidu, N. Prakash and S.S. Honnappagol "Effect of GnRH(Receptal) on serum biochemical and hormonal levels in Bidri male kids during post natal period" 25<sup>th</sup> ISSAR Annual Convention and International symposium on "Expanding the Horizons of reproductive technologies for augmenting fertility in farm and pet animals in the global scenario" held at Vety. College and research institute, Namakkal, Tamilnadu during 10- 12 Dec 2009. PP 30.
- 130) R. B. Dhabale, K. Venugopal Naidu, M.M. Appanavar and Ashok Pawar "Effect of GnRH on Biometry and histology of testis in Bidri male kids during postnatal period". 25<sup>th</sup> ISSAR Annual Convention and International symposium on "Expanding the Horizons of reproductive technologies for augmenting fertility in farm and pet animals in the global scenario" held at Vety. College and research institute, Namakkal, Tamilnadu during 10- 12 Dec 2009. PP 216.
- 132) Dhabale, R. B., Venugopal Naidu, K., Prakash, N. and Honnappagoal, S. S. (2009). Effect of GnRh (Receptal<sup>®</sup>) on serum biochemical and hormonal levels in Bidri male kids during post natal period. XXV annual convention of ISSAR and International Symposium on expanding the horizons of reproductive technologies for augmenting fertility in farm and pet animals in the global scenario. December 10-12 pp 32 (abst. Be3).
- 133) Kotresh. A. M., Shambulingappa, B. E., Rudresh, B.H., Kumar Wodeyar, D. S., Gelatinases as prognostic marker in RousSarcoma Virus induced chicks. International Poultry Expo & conference on "Technological Advances in Poultry Production, Health & Management" 8-10th January 2010, Namakkal-TN, Veterinary College & Research Institute Nammakal-637002, TN, India.
- 134) Papers/Abstracts presented at 13<sup>th</sup> Biennial Conference of Animal Nutrition Society of India, December 17-19. NIANP, Bangalore Veterinary College, Hassan
- 135) Dr.K.L.Phaniraj 1.Gamma interferon response to rDNA vaccine against bovine tuberculosis by bovigam assay. 2.Evaluation of recombinant DNA vaccine a against bovine tuberculosis by interlukin-4 assay 3. Study of Immune response against recombinant DNA vaccine against Bovine tuberculosis by flowcytometry. 4. Comparition of Immune response in claves to recombinant DNA, conventional BCG and recombinant BCG vaccines against bovine tuberculosis. International IAVP conference Department of Veterinary Pathology GADVASU, Ludhiana

#### **Veterinary College, Shimoga**

- 131) Asif M. A., Dilip Kumar, D., Shivaprakash, B.V., Usturge, S. M., Kasaralikal, V. R. and Ravi Raidurg (2009): Comparative evaluation of static and dynamic intramedullary interlocking nailing techniques for femoral fractures in canines. Paper presented at XXXIII Annual Congress of Indian Society of Veterinary Surgery held at College of Veterinary Science, Ludhiana, GADVASU, India from 11-13 Nov 2009.
- 136) Dr.M.S.Vasanth Current trends in diagnostic imaging and management of surgical affections in dairy animals 33<sup>rd</sup> Annual congress of ISVS and International symposium Department of Veterinary Surgery & Radiology GADVASU, Ludhiana



137) Dr.K.L.Phaniraj 1.Evaluation of recombinant DNA vaccine against bovine tuberculosis in calves by gamma interferon assay, interleukin-4 assay and flowcytometry 2.Evaluation of recombinant BCG vaccine against Bovine tuberculosis in calves by IFN-gamma assay. 3.CD-4, CD-8 cells , gamma interferon and IL-4 response in calves to recombinant Dna vaccine against BTB. 36<sup>th</sup> Annual conference of Indian Immunology Society National Institute of Mental Health and Neuroscience, BANGALORE

138) Dr. G. S. Naveen Kumar Morphometric study of sheep in Malnad region of Hassan district of Karnataka National symposium on challenges to domestic animals biodiversity AnandAgricultural University, Anand

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2. G. P. Kalmath *Labadhayaka Hainugarikegaagi Hainu Raasugala Aayke*. February 2010. Krishimitra, Anurag Group of Publications, Bangalore.
3. G. P. Kalmath and M. Narayana Swamy, *Poustika Pashu Aahara Azolla*. March 2010. Krishimitra, Anurag Group of Publications, Bangalore.
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5. G. P. Kalmath. *Paarivala Sanna Raithara Jeevala*. May 2010. Krishimitra, Anurag Group of Publications, Bangalore.
6. Shridhar, *101 questions about dog: Your Best Friend*. International Book Distributing agency, Lucknow
7. Shridhar. *Nayi: Jivada Geleya*. Sapna Book House, Bangalore.

8. K. Chandrapal Singh contributed 4 chapters on the "Principles of feeding and feed formulations" for dairy cattle in the "Handbook of Dairy Nutrition for Pakistan, Bangladesh, Nepal and Srilanka" brought out by the American Soybean Association.
9. H.N.N. Murthy and M.C. Shivakumar, "Energy content prediction of different feeds for monogastric, May 2009, Poultry punch Pg : 25-27.
10. Shivakumar. M.C and H.N. Narasimha Murthy, "Essential oil as an alternative antibiotic growth promoter in poultry production", Feb, 2010, Poultry Punch, Pg : 28,41,42.
11. S. Wilfred Ruban and Md. Nadeem Fairoze. 2009. *Campylobacter and poultry processing*. Hind Poultry. 8 (7): 23-27

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12. Dr.B.V.Shivaprakash (2009) *Sakupranigalalli shastrachiketsa tantragnanadinda raithara arthika abhivruddi mattu manushyarige baruva pranijanya rogakala niyantrana Vignana Loka*, Karnataka Science & Technology Academy sept.23-24, 2009:31-35.
13. Sunilchandra.U, VijayKumar.M and Santhosh .P.S (2009) *Collection and dispatch of specimens in toxicological cases*. Poultry Line. 9(10): 31-34
14. S.M.Bhalerao, S. Mallikarjunappa and B.Ramachandra (2009) *Nutritional management practices of Japanese Quail farming*. Poultry Flame. 21(22): 2-4
15. S.M.Bhalerao, S. Mallikarjunappa and B.Ramachandra and S.A. Shivakumar (2010) *Role of feed additives in poultry*. Poultry Punch. 26(4): 52-57
16. Dr. N.V. Jadhav (2009) *Investigation of IBD outbreaks*. Pashudhan Aug, 2009
17. Dr. Shivakumar K.Radder. (2009) *Azolla A good feed supplement for animals*. Kvafsu, Bidar

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18. Ravi Raidurg (2009). Published a chapter entitled 'Application of social networking in Veterinary practice' in the book 'Information technology in Veterinary Science', edited by Dr Vivek M Patil, New India Publishing Agency, New Delhi.
19. Prakash, N. Toxicology of common poisonings and their care and management under field conditions. Compendium of KVA sponsored training manual on Chemotherapy and Diagnostic toxicology, 24-29 September 2009. Veterinary college, Bidhar.
20. Nagabhushan, V. and K. Ganesh Udupa. Janavarugalige baruva saamanya rogakalu mattu avugala nivarane. August 2009, Annadatha montly, pp: 60-63.
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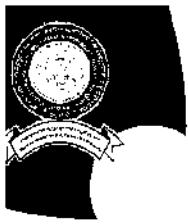
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## VI. EXTENSION EDUCATION ACTIVITIES

### Regional Agriculture Fair For Southern Zone' at Bidar Campus

A mega "Regional Agriculture Fair for Southern Zone" ("Agri, Animal & Fish Fair") was organised during December 18-21, 2009 at Bidar Campus for the first time for the benefit of farming community. The Fair was co-sponsored by the Directorate of Extension, DAC, Ministry of Agriculture, New Delhi; National Fisheries Development Board, Hyderabad; State Departments of Agriculture, Animal Husbandry, Fisheries, KMF and other organizations. The Fair (mela) was inaugurated by Shri. Revu Naik Belamagi, Hon'ble Minister for Animal Husbandry & Pro-Chancellor of the University and said that this type of melas will help the farming community for improving their livelihood. Shri. Bandeppa Khashampur, Member of Legislative Assembly (MLA) presided over the Inaugural Ceremony. Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor; all the Hon'ble Members of Board of Management, KVAFSU and all the Officers, staff and students of the University and farmers attended. More than 15 publications brought out by the Directorate of Extension, KVAFSU, were released during the occasion including Books on Package of Practices in Animal Husbandry & Dairy Technology and Fisheries, a Souvenir, 10 folders on different topics in local language and a book in Hindi on Dairy Farming. Prof. H. Shivananda Murthy, Director of Extension was the Chairman of the Organizing Committee welcomed the dignitaries, guests and farmers.

In this mela more than 300 stalls were setup and displayed research and extension activities by different Agricultural Universities, State Departments, Bidar Zilla Panchayath namely, Animal Husbandry, Fisheries, Agriculture, KMF, Watershed Development and other Departments of the State in addition to stalls organised by the KVAFSU. Further, a good number of stalls from private entrepreneurs and industries were also set up and displayed the activities. More than 2.00 lakh farmers attended during these three days and benefited by this mela organised as a means of

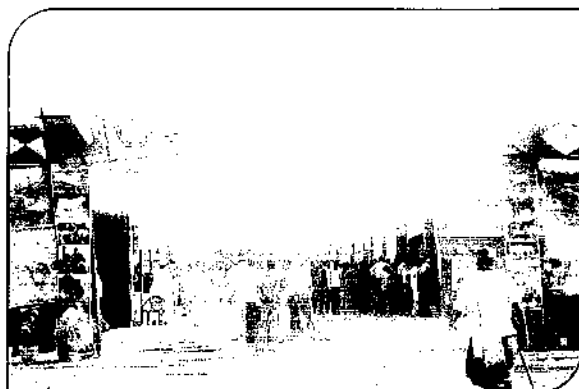
Husbandry, Dairy, Fisheries and other related areas. The main attraction of the mela was exhibition of different types and breeds of livestock namely, cattle (Deoni, Hallikar, Amruthmahal, Ongole, Red Kandari, Gir etc.), buffaloes (Murra, Surti, Jefferbadi etc.), horses, camels, dogs sheep, goat, rabbit and different types of poultry birds including some of the rare breeds, fodder crops and fishes namely, food fishes and ornamental fishes etc. Technical Consultancy Cell was established in the mela to give technical guidance on different aspects of Agriculture, livestock farming and dairy science & technology, aquaculture, fisheries during the mela for the benefit of farming community. Interesting dog skill shows were also arranged during all the three days for the benefit of children, farmers and public. To popularize fish eating habit among the population, fish stalls for sale of fish fry, fish kabab and other value added fish products were set up by the KFDC.

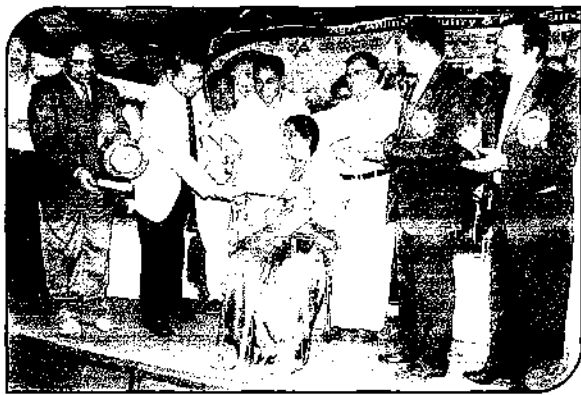
Smt. Shamim Banu, Principal Secretary, Department of Animal Husbandry & Fisheries, Government of Karnataka visited on 18<sup>th</sup> and went round the exhibition. Dr. S. A. Patil, President, Karnataka Krishi Mission & Former Vice-chancellor (UAS, Dharwad & IARI, New Delhi) participated in the mela and Chaired the 'Farmers-Scientists-Interaction Session Workshop' on 19-12-2009.

Best fish and livestock farmers were selected from different districts of Karnataka and 'Best Farmer Awards' were conferred. Best livestock animals on breed wise were selected and prizes were given away. Overall 'Champion Animal' bagged 1<sup>st</sup> prize of Rs. 10,000/- and several other prizes were given away during the mela. Best stalls under three categories namely, University stalls, stalls of the Development Departments and stalls of private organizations were adjudged and prizes were given in the Valedictory Function.

The Valedictory Function was held on 20-12-2009 evening. Dr. Sadamathe, Advisor (Agriculture), Planning Commission, New Delhi was the Chief Guest. Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU, presided over. Prof. H. Shivananda Murthy, Director of Extension & Chairman of Organizing Committee welcomed the dignitaries & all the guests and presented a brief report of three days mela activities. Dr. M. J. Chandregowda, Additional Commissioner (Extn.), DAC, Ministry of Agriculture, GOI, New Delhi; Dr. C. Vasudevappa, Senior Executive Director, NFDB, Hyderabad; Dr. Dandin, Special Officer, University of Horticultural Sciences (UHS), Bagalkot; Dr. Munivenkatappa, Joint Director, Watershed Development Department, Bangalore; Dr. C. K. Murthy, Executive Director, NFDB, Hyderabad; University Officers of KVAFSU & UHS, Bagalkot, Officers of line departments and other organizations were present.

The programme was well received by the farmers and public as per the feed back received and a good awareness was created about integrated farming involving agriculture, animal husbandry and fisheries; livestock farming activity as a source of livelihood security and fish and its utility. The Fair was very well covered in the media both in press and in electronic media.





● **National workshop on “Strategies for Extension Education”**

A National Workshop on “Strategies for Extension Education in Animal Husbandry and Fisheries Sector for the next Decade” was organised by the Directorate of Extension, Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar Campus during September 4-5, 2009. The workshop was attended by more than 150 participants from all over the country working in the area of Fisheries and Animal Husbandry from different Veterinary / Animal Sciences / Agriculture Universities, Deemed Universities and Development Departments. First key note address was delivered by Dr. Dilip Kumar, Director & Vice-Chancellor, CIFE (Deemed University), Mumbai, entitled “Extension strategies for sustainable development of fisheries and aquaculture in India”. The second key note address was delivered by Dr. A. K. Srivastava, Director & Vice-Chancellor, NDRI (Deemed University), Karnal, Haryana, entitled

“Changing scenario of Indian dairy: Role of extension and extension education”. The third key note address was delivered by Dr. M. V. Gupta, World Food Prize Laureate & Assistant Director General (Retd.), World Fish Center, Malaysia, entitled “Contribution of aquaculture to food and livelihood security and challenges to meet global demand”. He emphasized on ‘rural aquaculture, integrated aquaculture and aquaculture as a livelihood security for the rural resource poor people’.

Lead presentations were made by Dr. S. Prabhukumar, Zonal Project Director, ICAR, Bangalore; Dr. M. J. Chandregowda, Additional Commissioner, Ministry of Agriculture, New Delhi; Dr. G. Thulasi, Director of Extension, TANVASU, Chennai; Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar; Dr. P. S. Lonkar, Director of Extension, MAFSU, Nagpur; Dr. S. T. Indulkar, Dean, College of Fishery Sciences, MAFSU, Nagpur; Dr. S.V.N. Rao, Professor & Head, Animal Husbandry Extension, Pondicherry Veterinary College; Dr. B. Mohan, Programme Coordinator, KVK, Namakkal, Tamil Nadu; Dr. K. C. Veeranna, Associate Professor & Head, Animal Husbandry Extension, Veterinary College, Bidar; Dr. O. R. Nataraju & Dr. K. C. Shashidhar, KVK, Hassan and others. A “Farmers-Scientist-Entrepreneurs Interaction Session” was also arranged on 5<sup>th</sup> September, 2009. About 80 farmers were attended the session along with scientists and extension specialists. The National Workshop was coordinated by Dr. H. Shivananda Murthy, Organizing Secretary & Director of Extension, KVAFSU, Bidar.

The Valedictory function of the National Workshop was held on 5<sup>th</sup> September, 2009. Dr. M. V. Gupta, World Food Prize Laureate & Assistant Director General (Retd.) was the Chief Guest. Prof. Suresh, S. Honnappagol, Vice-Chancellor, KVAFSU presided over the function. Dr. M. Devaraj, Registrar, KVAFSU was the Guest of Honour. Dr. H. Shivananda Murthy, Organizing Secretary & Director of Extension welcomed the guests & participants. Dr. M. V. Gupta and Prof. Suresh, S. Honnappagol spoke on the occasion.

stressed the need of strengthening network of Extension Education in fisheries and animal husbandry in the country and appreciated the efforts of Dr. H. Shivananda Murthy, Director of Extension in organizing this important workshop.



• **SEMINAR on “GLOBAL WARMING AND CLIMATE CHANGE”**

One day Seminar on “Global Warming and Climate Change” was organized by the Directorate of Extension, Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar in collaboration with Bapu Rural Development Society, Bidar, at University Campus, Bidar on November 11<sup>th</sup>, 2009. The seminar was attended by more than 100 participants comprising of officers of line Departments, teachers, NGOs and farmers.

Dr. (Mrs.) Shalini Rajanish <sup>I.A.S.</sup> Secretary, Hyderabad-Karnataka Development Board, Gulbarga, inaugurated the seminar. Deputy Commissioner (I/c), Bidar and CEO, Zilla Panchayath, Bidar were the Chief Guests. Prof. Suresh, S. Honnappagol, Vice-Chancellor presided over the Ceremony. Prof. H. Shivananda Murthy, Director of Extension and Organizing Secretary welcomed the guests and participants and briefed about back ground and purpose of the seminar.

Lead presentations were made by Dr. R. G. Nayak, Professor, Department of Biotechnology, Gulbarga University; Shri. Shivasharanappa, G. Patil, PDA Engineering College, Gulbarga; Mrs. Vanashree Vipin Sing, <sup>I.F.S.</sup> Project Officer, Jalasamvardhana Sangha, Bidar and Prof. H. Shivananda Murthy, Director of Extension, KVAFSU. A film entitled “Global Warming & Climate Change An inconvenient truth” produced by Mr. Algore was screened. Few important recommendations were drawn up at the end.

• **Starting of Distance Education by the University**

The University has constituted a committee for starting Distance Education Programmes by the University. The final meeting of the committee along with the senior officers of the Indian Knowledge Corporation (IKC). Pune was held on 29<sup>th</sup> October, 2009 at Bidar Campus. Dr. H. Shivananda Murthy, Director of Extension & Chairman of the committee presided. Dr. Y. Haribabu, Dean & Member of the committee and Dr. K. C. Veeranna, Associate Professor & Head of AHE & Member of the committee attended the meeting. The committee has recommended to start the Distance Education Programmes by offering certificate courses in various disciplines of Animal Husbandry, Dairy and Fisheries in collaboration with IKC. Pune.

• **“Bhoomi Pooja”**

“Bhoomi Pooja” was performed on 7<sup>th</sup> July, 2009 to start the construction of piggery shed under RKVY project in Bangalore center. Under Rastriya Krishi Vikasa Yojana a sum of Rs. 500.00 crores is earmarked to the KVAFSU to take up pig development activities. Total amount of Rs. 500.00 crores will be released in different installments over a period of 5 years (2007-08 to 2011-12) to start piggery development activities in different regional centers of KVAFSU such as Veterinary Colleges Bangalore, Shimoga, Hassan and LRIC, Konehalli.



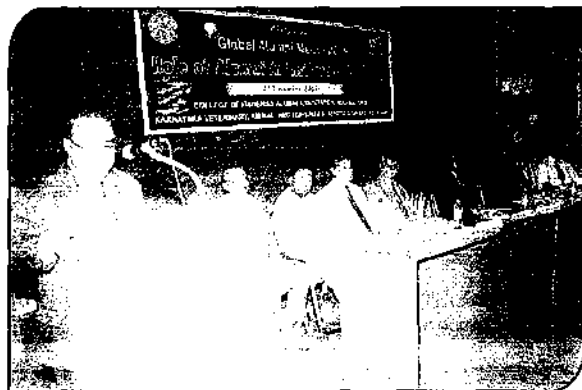
● **4<sup>th</sup> Foundation Day of Veterinary College, Shimoga**

Veterinary College, Shimoga celebrated its 4<sup>th</sup> Foundation Day on 11<sup>th</sup> September, 2009. Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU inaugurated the function, and distributed prizes to the winners of the various cultural and sports competitions held. Dr. S. Mallikarjunappa, Dean, Veterinary College, Shimoga presided over. Dr. Nagabhushana welcomed the gathering. Dr. V. B. Shettar presented the saga of Veterinary College, Shimoga, while Dr. Manjunatha, L., presented the annual report. Dr. Patel Suresh Revanna delivered the vote of thanks.

● Seventh National Meet of PFGF (Professional Fisheries Graduates Forum) and the award ceremony was held on 22<sup>nd</sup> December, 2009 at College of Fisheries, Mangalore. Dr. A S Ninawe. Hon'ble Vice-Chancellor, Maharashtra Animal and Fisheries Sciences University, Nagpur was the Chief Guest and Prof. Suresh S. Honnappagol, Hon'ble Vice-chancellor KVAFSU, Bidar presided over.

Global Alumni Meet of College of Fisheries Alumni Association (COFAA) was organized on 23-12-2009. Prof. Suresh S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU, Bidar; Prof. R. N. Srinivasa Gowda, Former Vice-Chancellor; Prof. G. K. Veeresh, Former Vice-Chancellor (UAS (B)); Prof. Sandeep Sancheti, Director NITK Surathkal; Shri. B. P. Putta Buddi, Hon'ble Member, Board of Management of KVAFSU; Dr. H. Shivananda Murthy, Director of Extension; Dr. S. M. Usturge, Director of Instruction (PGS); Dr. Y. Basavaraju, Dean (Fisheries); Dr. H. R. V. Reddy, Secretary, COFAA; Former Directors of the Institution, retired teachers, distinguished Alumni of College of Fisheries, the faculty and students of the college of Fisheries, Mangalore were present. Retired Vice-Chancellors, Directors of Instruction and teachers were felicitated by COFAA during the occasion.

Reddy, Secretary, COFAA; Former Directors of the Institution, retired teachers, distinguished Alumni of College of Fisheries, the faculty and students of the college of Fisheries, Mangalore were present. Retired Vice-Chancellors, Directors of Instruction and teachers were felicitated by COFAA during the occasion.



**Training Programme on 'Fish Farming'**

The Extension Education Wing (EEW), Mangalore Campus has organised a training programme on "Fish Farming" on 17<sup>th</sup> August, 2009 at Mangalore for the benefit of farmers and entrepreneurs in collaboration with KVK, Mangalore. Dr. H. Shivananda Murthy, Director of Extension participated and inaugurated the programme. About 40 farmers and entrepreneurs attended and benefited by the training programme. Faculty of the EEW, Mangalore and staff of the KVK coordinated the programme.

**Training on 'Pig Farming'**

The Extension Education Wing, Mangalore organised one day training programme on 'Pig Farming' at Mangalore on 14<sup>th</sup> September, 2009 for the benefit of farmers and farm women in collaboration with the Department of Animal Husbandry & Veterinary Services (AH&VS), Dakshina Kannada. More than 150 farmers and farm women actively participated and benefited by the programme. Dr. H. Shivananda Murthy, Director of Extension, KVAFSU; Dr. K. V. Kulakarni, Joint Director, Department of AH&VS, Bangalore; Dr. Halagappa, Deputy



Director, Department of AH&VS, D.K. and other officers of the Department of AH&VS participated. Faculty of the EEW, Mangalore coordinated the training programme.



### **Training on 'Dairy Farming'**

A training programme on "Dairy Farming" was organised at Livestock Research & Information Center (Deoni), Karanja, for the benefit of farmers and farm women during October 12-16, 2009. 30 farm women and farmers participated and benefited by the programme. Dr. H. Shivananda Murthy, Director of Extension participated in the inaugural ceremony. Dr. Sathish Biradar, Farm Superintendent, LRIC (Deoni) coordinated the programme.



### **Demonstration on 'Online e-Resources'**

A training cum demonstration on 'Online e-Resources' particularly the electronic resources available under 'Consortium for e-Resources in Agriculture (CeRA)' was organised on 14<sup>th</sup> October, 2009 at Bidar Campus. Officials from Informatics India Ltd., Bangalore have demonstrated on quick searching, access and retrieval of online journals and other e-Resources. Prof. Suresh, S. Honnappagol, Vice-Chancellor and officers of the University, staff and students attended the programme. Dr. H. Shivananda Murthy, University Librarian (I/c) coordinated the programme.

### **Training on 'Dairy products value addition' and 'Animal Health Camp'**

One day training programme on 'Dairy products technology and value addition to milk products' was organised by the Extension Education Wing (EEW), Bangalore Campus at Doddaballapura on 16<sup>th</sup> October, 2009. Dr. H. Shivananda Murthy, Director of Extension inaugurated the programme. Dr. B. V. Venkateshaiah, Dean (D.Sc) presided. The programme was jointly organised by EEW, Bangalore and KVK, Bangalore Rural District. 50 farm women and farmers were trained with practical demonstration on value addition to milk products. Faculty of Dairy Science College, Bangalore and EEW, Bangalore participated as resource persons.

products' was organised by the Extension Education Wing (EEW), Bangalore Campus at Doddaballapura on 16<sup>th</sup> October, 2009. Dr. H. Shivananda Murthy, Director of Extension inaugurated the programme. Dr. B. V. Venkateshaiah, Dean (D.Sc) presided. The programme was jointly organised by EEW, Bangalore and KVK, Bangalore Rural District. 50 farm women and farmers were trained with practical demonstration on value addition to milk products. Faculty of Dairy Science College, Bangalore and EEW, Bangalore participated as resource persons.

An 'Animal Health Camp' was also organised on the same day in the same village and about 200 animals were treated for various disorders and vaccinated.

### **'Polyculture of fish and value addition to fish products'**

The Extension Education Wing (EEW), Mangalore has organised 5 days training programme on "Polyculture of fish and value addition to fish products' during 30<sup>th</sup> November 4<sup>th</sup> December, 2009 at Mangalore Campus. Subject Matter Specialists of KVKs, Assistant Directors of Fisheries Department and other Departments participated in the programme. Shri. Monappa Karkera, Member of BOM inaugurated, while Dr. H. Shivananda Murthy, Director of Extension was the Chief Guest. Dr. K. M. Shankar, Dean (I/c) was present. The faculty of EEW, Mangalore coordinated the programme.



### Training on value addition to milk products

A training programme was organised by the EEW, Bangalore at Byalahally, Tarikere Taluk, Shimoga district on 'Value addition to milk products' on September 22<sup>nd</sup>, 2009. Shri. Suresh Kumar Tarikere MLA inaugurated and Dr. H. Shivananda Murthy, Director of Extension presided. Sixty farm women were trained on dairy and bakery products. An animal health camp was also organised on that day in the same village and about 300 animals were treated. Staff of EEW, Bangalore and Veterinary College, Shimoga participated in the programme.



### Participation in the NFDB Matsyamela

KVAFSU has participated in the Matsyamela organised by National Fisheries Development Board (NFDB) at Hyderabad during July 11-13, 2009 with a stall and displayed the activities of the KVAFSU. Prof. Suresh, S. Honnappagol, Vice-Chancellor; Dr. H. Shivananda Murthy, Director of Extension and Dr. Y. Basavaraju, Dean (Fisheries) participated in the Matsyamela. The Extension Education Wing, Mangalore Campus had setup the stall and displayed the activities of the University.



### Participation in the Dharwad Krishimela

The KVAFSU has participated in the Krishimela organised by University of Agricultural Sciences, Dharwad during September 19-21, 2009 at the University Campus, Dharwad. A stall was set up and displayed various activities of the University. Prof. Suresh, S. Honnappagol, Vice-Chancellor, Dr. H. Shivananda Murthy, Director of Extension and Dr. K. C. Veeranna, Head, Department of AHE participated in the mela. The stall was inaugurated by the Hon'ble Minister of Agriculture Shri. Ravindranath, in the presence of Shri. Murugesh Nirani, Hon'ble Minister; Shri. Basavaraj Horatti, Former Hon'ble Minister; Vice-Chancellors and other dignitaries.



### Participation in the Bangalore Krishimela

The Directorate of Extension has participated in the Krishimela organised by the University of Agricultural Sciences, Bangalore at GKVK during 18-21 November, 2009. A stall was set up for displaying the University activities during the mela. Dr. H. Shivananda Murthy, Director of Extension participated in the mela. The faculty of Extension Education Wing, Bangalore Campus have coordinated the programme.

### Participation in the Raichur Krishimela

The Directorate of Extension has participated in the Krishimela at University of Agricultural Sciences, Raichur during December 5-7, 2009 by setting up a stall and displayed the University activities. Dr. H. Shivananda Murthy, Director of Extension participated in the inaugural ceremony of the mela, as Guest of Honour. This was the 1<sup>st</sup> Krishimela of the UAS, Raichur.

### **Field Day on 'Shrimp Culture'**

A field day on "Shrimp Culture" was coordinated and organised at Fisheries Research & Information Center, Ankola on 20-05-2010 for the benefit of brackishwater fish / shrimp farmers. The field day was inaugurated by Prof. H. Shivananda Murthy, Director of Extension. The Deputy Director of Fisheries, Uttara Kannada district; Chief Executive Officer of Brackishwater Fish Farmers Development Agency and other officers of Uttara Kannada participated in the programme. 70 farmers attended and benefited by the practical demonstration of scientifically cultured shrimps and their harvest and interaction session held with the scientists and experts in the area.

### **'World Veterinary Day' at Bidar Campus**

'World Veterinary Day' was celebrated at Bidar Campus in a befitting manner on April 24<sup>th</sup>, 2010 to commemorate yeomen service of Veterinarians to animal care. Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU presided over the function and emphasized on service of the Veterinarians and the care required for the animals in his presidential address. Dr. (Mrs.) Kesari, Professor, Department of Public Health, Government Medical College, Bidar was the Chief Guest and addressed the gathering with regard to zoonotic diseases and the care to be taken by the Veterinarians. Prof. H. Shivananda Murthy, Director of Extension; Dr. S. M. Usturge, Director of Instruction (PGS); Dr. Y. Haribabu, Dean, Veterinary College, Bidar; Dr. U. S. Biradar, Special Officer, Dairy Science College, Gulbarga, the faculty and students of the Veterinary College, Bidar participated in large numbers.

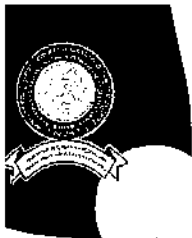
### **Celebration of 'World Veterinary Day' at Veterinary College, Bangalore**

"World Veterinary Day" was celebrated on 24<sup>th</sup> April, 2010 at Veterinary College, Regional Campus, KVAFSU, Hebbal, Bangalore by organizing the following activities; (i) Free Antirabies Vaccinations Camp at Veterinary College Hospital was inaugurated by Dr. B. C. Ramakrishna, President, KARUNA, Bangalore along with Dr. A. Krishnaswamy, Dean (I/c.), Veterinary College, Bangalore and HODs of Clinical departments. Staff members of the college participated in the programme. A total of 54 dogs were vaccinated. This was a joint programme of

Veterinary College, IAH&VB, and KARUNA and INTAS Pharmaceuticals. (ii) Distributed Neomic Shiksha award instituted by Intas Pharmaceuticals to first B.V.Sc. & A.H. students. (iii) Inauguration of Vaccination Camp at Teaching Veterinary Clinical Service Complex, Yelahanka by Dr. S. M. Byregowda, Director (I/c.), IAH&VB, Bangalore along with Dr. A. Krishnaswamy, Dean (I/c.), Veterinary College, Bangalore, HODs of Clinical departments. Staff members of the college also participated in the programme. (iv) Animal Health Camp was organized at Haniyuru village on 30.04.2010 as a part of the week long activities of the World Veterinary Day Celebrations. At total of 122 sheep and goats were vaccinated against PPR, 122 sheep were dewormed, 18 dogs were given Antirabies vaccine, 5 male dogs were operated for birth control. Dr. U. Krishnamoorthy, Dr. Md. Nadeem Fairoze, Dr. K. Satyanarayana, Dr. Kshama, Dr. Srinivas Murthy, Dr. Anu Bagga, PG Students, Internship students and fourth year students participated in the camp.

### **Workshop on 'Mass Media'**

A State level workshop on "Mass Media and Communication" was organised by the Directorate of Extension at Bidar Campus on January 6<sup>th</sup>, 2010. The workshop was inaugurated by the Hon'ble Vice-Chancellor Prof. Suresh, S. Honnappagol. In his inaugural address, he stressed on the role of mass media in transfer of technology and extension education programmes in reaching the farming community. Sri. Shankarappa, Joint Director of Agriculture (Extension & Training) & Member Secretary, Mass Media; Sri. Suresh Kumar, Programme Executive, Krishi Darshan, Bangalore Doordarshan Kendra; Sri. M. D Patil, Station Head, Gulbarga Doordarshan Kendra and Officers from All India Radio (AIR) of Bangalore, Gulbarga and other places were present and addressed in the workshop. Prof. H. Shivananda Murthy, Director of Extension, coordinated the workshop and welcome the guests and participants for the workshop. The Officers from the Development Departments of Agriculture, Animal Husbandry, Fisheries, Watershed Development, Horticulture, Sericulture and other departments participated in the workshop. All together 95 officers participated in the workshop. Sufficient time was devoted for interaction with the officers and getting feed back from the officers for planning different Doordarshan and Radio programmes in future months specially for Hyderabad-Karnataka region. future months specially for Hyderabad-Karnataka region.



### **National Conference on Canine Practice**

National Congress on Canine Practice and 7<sup>th</sup> Annual Convention of the Indian Society for Advancement of Canine Practice on "Novel Approaches in Companion Animal Practice" was jointly organized by the Indian Society for Advancement of Canine Practice and Veterinary College, KVAFSU, Bangalore on 21<sup>st</sup> January, 2010 in the ATRIA Hotel, Bangalore. Justice N. Santosh Hegde Former Judge, Supreme Court of India and present Lokayukta in Karnataka inaugurated the conference. Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU, Bidar, presided over the function. Dr. S. Yathiraj, Dean & Organizing Secretary, Veterinary College, Bangalore, welcomed the participants. Prof. S. K. Ray, President, ISACP, delivered the presidential address. Prof. A. K. Srivastava, Secretary General, ISACP, briefed about the Society. Dr. M. Devaraj, Registrar, KVAFSU, Bidar, proposed the vote of thanks. More than 200 delegates participated in the convention. Lead papers and abstracts were presented in seven technical sessions and one poster session.



### **Seminar on 'Sustainable Farming'**

Department of Veterinary & Animal Husbandry Extension and Veterinary College, Shimoga with support and cooperation of Directorate of Extension, KVAFSU, Bidar and Department of AH&VS organized a seminar for farmers on 'Modern Dairying' at Belalakatte Village, Shimoga Taluk on 04-01-2010. Sri. H. C. Basavarajappa, President, Zilla Panchayat,

Basavarajappa, President, Zilla Panchayat, Shimoga, inaugurated the programme. Dr. Basavaraj, N. (Deputy Director), Dr. Ganesh Udupa (I/c Dean), Dr. Kallappa (Assistant Director), Veterinary College staff, Veterinary Doctors from the Department of AH&VS and other local peoples' representatives graced the occasion. Animal vaccination, animal health camp, animal show, exhibition and demonstrations were carried out during the occasion. Prizes were distributed to the winners of the animal show. About 500 farmers of the village were benefited by the programme. Faculty from Veterinary College, Shimoga actively participated as resource persons. Dr. L. Manjunath, Assistant Professor, Department of AHE and faculty of Veterinary College, Shimoga coordinated the programme.



### **Trainings and outreach programmes organised by Extension Education Center (EEC), Bangalore**

#### **(I) Training Programme on "Clean milk production & value addition in milk products"**

A five days training programme on "Clean milk production & value addition to milk products" was organized by the EEC, Bangalore Campus during 18-25 January, 2010. The Hon'ble Member, Board of Management, KVAFSU, Bidar Sri. S.P. Putta Buddi, inaugurated the programme by lighting the lamp. Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar was the Chief Guest. The function was presided by Dr.

Bangalore. Thirty five candidates participated in the training programme who were drawn from Karnataka Milk Federation, KVKs, Department of Animal Husbandry and Water Shed Department. The programme was sponsored by Zonal Project Director, ICAR to the Directorate of Extension. The training programme was coordinated by Dr. H.M. Jayaprakasha, Head and Faculty of Extension Education Center, Bangalore Region.

**(ii) Trainers Training on “Advances in freshwater aquaculture and integrated farming”**

A three days Trainers Training on “Advances in freshwater aquaculture and integrated farming” was organized by the EEC, Bangalore Campus from 27<sup>th</sup> to 29<sup>th</sup> January, 2010 for the benefit of the officers of the line Departments of the State Government. The programme was inaugurated by Dr. H. S. Veerappa Gowda, Director, Department of Fisheries, Government of Karnataka. Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar was the Chief Guest. Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore presided. Twenty five participants from the Departments of Fisheries, KVKs, Animal Husbandry & Veterinary Services and Watershed Development participated in the training programme. The programme was coordinated by Dr. H.M. Jayaprakasha, Head, Extension Education Center, Bangalore Region.

**(iii) “Recent advances in poultry production”**

“Recent advances in poultry production”, a Trainers Training was organized by the EEC, Bangalore Campus during 3-5 February, 2010 for the benefit of the officers of the Development Departments of the Government of Karnataka. The programme was inaugurated by Dr. Rajeshwara Rao, Director, Central Poultry Development Organization, Hessarghatta, Bangalore. Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore was the Chief Guest and Dr. S. Yathiraj, Dean & Campus Head,

Veterinary College, Bangalore presided. Twenty six participants participated in the training programme. Dr. H. N. Narasimhamurthy, Head of Division, Poultry Sciences, Veterinary College, Bangalore and Dr. H. M. Jayaprakasha, Head, Extension Education Center, Bangalore Region, coordinated the programme.

**(iv) Trainers Training on “Livelihood Security through Sheep and Goat farming”**

A three days Refresher Course for the benefit of Officers of line Departments of State Government on “Livelihood Security through Sheep and Goat farming” was organised by the EEC, Bangalore Campus from 9<sup>th</sup> to 11<sup>th</sup> February, 2010. The Training was inaugurated by Dr. K. Shivakumar, Managing Director, Karnataka Sheep & Wool Development Corporation Ltd, Bangalore, which was presided by Dr. S. Yathiraj, Dean, Veterinary College, Bangalore, while Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore was the Chief Guest. Twenty seven trainees participated from different organizations namely, the Departments of AH&VS, Sheep Board, Watershed Development and KVKs. The programme was coordinated by Dr. H.M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and Dr. U. Krishnamurthy, Head of Division, Animal Sciences, Veterinary College, Bangalore.

**(v) “Dairy farming for Economic Stability”**

“Dairy farming for Economic Stability” a Trainers Training was organized by the EEC, Bangalore Campus during 18-20 February, 2010 for the benefit of Officers of Development Departments of the Government of Karnataka to update their knowledge and skill. The programme was inaugurated by Prof. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar. Dr. K. V. Kulkarni, Joint Director, Department of Animal Husbandry & Veterinary Services, Bangalore was the Chief Guest, while Dr. B. V. Venkateshaiah, Dean, Dairy Science College, Bangalore presided. Twenty five participants from various



organizations namely, Departments of AH&VS, Watershed Development and KVKs. Dr. H. M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and Dr. U. Krishnamurthy, Head of Division, Animal Sciences, Veterinary College, Bangalore coordinated the programme.

**(vi) “Rabbit farming for livelihood security”**

A three days Refresher Training Course for the benefit of Officers of line Departments on “Rabbit farming for livelihood security” was organized during 24-26 February, 2010 at Bangalore Campus. The programme was inaugurated by Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore and presided by Dr. S. Yathiraj, Dean and Campus Head, Veterinary College, Bangalore. Twenty participants participated in the programme. The participants were drawn from the Departments of AH&VS, KVKs and Watershed Development. The programme was coordinated by Dr. H.M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and Dr. U. Krishnamurthy, Head of Division, Animal Sciences, Veterinary College, Bangalore.

**(vii) Trainers Training on “Dairy products technology and value addition”**

A Trainers Training Programme on “Dairy products technology and value addition” was organized at Conference Hall, Dairy Science College, Bangalore during 2-4 March, 2010 for the benefit of the Officers of the line Departments of the State Government. The programme was inaugurated by Dr. M. Renuka Prasad, Director, IAH & VB, KVAFSU, Bangalore, while Shri. Gajendra, G.L. Director, STEP, KMF, Bangalore was the Chief Guest. Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore presided. There were twenty six participants drawn from KMF, KVKs and AH&VS. Dr. H. M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and Dr. H. G. Ramachandra Rao, Head of Division, Dairy Science College, Bangalore, coordinated the programme.

**(viii) “Piggery for livelihood security”**

“Pig farming for livelihood security”, a Trainers Training Programme was organized at Bangalore Campus during 11-13 March, 2010 for the benefit of the Officers of the line Departments. The programme was inaugurated by Dr. K.V. Kulkarni, Joint Director, Department of Animal Husbandry & Veterinary Services, Bangalore, while Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore was the Chief Guest and Dr. S. Yathiraj, Dean and Campus Head, Veterinary College, Bangalore, presided. Twenty four trainees participated in the training programme. The participants were from the Departments of AH&VS, KVKs and Watershed Development. Dr. H.M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and Dr. U. Krishnamurthy, Head of Division, Animal Sciences, Veterinary College, Bangalore coordinated the programme.

**(ix) “Ornamental Fish production”**

A three days refresher course on “Ornamental Fish production” was organized at Bangalore Campus from 18 to 20 March, 2010 for the benefit of the Officers of the State Development Departments. Dr. N Ramakrishna, Joint Director, Department of Fisheries, Government of Karnataka inaugurated. Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar presided, while Dr. B. V. Venkateshaiah, Dean, Dairy Science College, Bangalore was the Chief Guest. Eighteen trainees from the Departments of Fisheries, KVKs and Watershed Development participated. Prof. Suresh, S. Honnappagol, Hon'ble Vice-Chancellor, KVAFSU, Bidar was the Chief Guest for the Valedictory Function held on 23-03-2010 and distributed the compendium and certificates to the participants and addressed the trainees. Dr. H. M. Jayaprakasha, Head, Extension Education Center, Bangalore Region coordinated the training.

**Farmers Trainings organised by the EEC, Bangalore**

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**(I) Training Programme on “Poultry Production and Management”**

A three days training programme on “Poultry production and management” was organized at Bangalore Campus during 8-10 March, 2010 for the benefit of farmers. The programme was inaugurated by Dr. H. N. Narasimhamurthy, Head of Division, Poultry Science and presided by Dr. B. V. Venkateshaiah, Dean, Dairy Science College, Bangalore. Dr. H.G. Ramachandra Rao, Head of Division, Dairy Science and Dr. U. Krishnamurthy, Head of Division, Animal Science were the Chief Guests. Thirty farmers from Chandenhalli, Nagamangala taluk participated and benefited by the programme. The programme was coordinated by Dr. H.M. Jayaprakasha, Head and Faculty of Extension Education Center, Bangalore Region.

**(ii) “Dairy farming for livelihood security”**

An Off-Campus training programme on “Dairy farming” was organized at Kannamangala village of Doddaballpur Taluk from on 22<sup>nd</sup> to 24<sup>th</sup> March, 2010 in coordination with the NSS programme of Dairy Science College, Bangalore. The programme was inaugurated by Shri. M. Mudderangegowda, Chief Secretary, Chinmaya Seva Sanga, Kannamangala and presided by Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore. Shri Siddaramaiah and Shri V. Dasappa, Progressive farmers, Kannamangala were the Chief Guests. Thirty farmers participated in this three days training programme. The programme was coordinated by Dr. H. M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and assisted by Dr. T. Suresh and Ms. Chitra, M.K.

**(iii) Training Programme on “Sheep and Goat farming”**

A three days Off-Campus training programme

programme of Veterinary College, Bangalore. The programme was presided by Dr. B.V.Venkateshaiah, Dean, Dairy Science College, Bangalore. Dr. Chandra Pal Sing, Head of the Department, Department of Animal Nutrition, Veterinary College, Bangalore. Dr. V. Chandrasekhar Murthy, Dr. P. T. Ramesh and Dr. Satyanaryana were participated as Resource Persons. Thirty farmers from Haniyur and nearby villages of Doddabalapur Taluk were participated in the training programme. The programme was coordinated by Dr. H.M. Jayaprakasha, Head, Extension Education Center, Bangalore Region and assisted by Dr. T. Suresh and Ms. Chitra, M.K.

**(iv) Training Programme on “Ornamental fish production and integrated farming”**

An On-Campus three days training programme on “Ornamental fish production and integrated farming” was organized by EEC, Bangalore during 29<sup>th</sup> - 31<sup>st</sup> March 2010 for the benefit of the farmers and farm women. The programme was inaugurated by Dr. B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore. Dr. U. Krishnamurthy, Head of Division, Animal Sciences, Veterinary College, Bangalore, Dr. H.N. Narasimhamurthy, Head of Division, Poultry Sciences, Veterinary College, Bangalore and Dr. H.G. Ramachandra Rao, Head of Division, Dairy Sciences, Dairy Science College, Bangalore were the Chief Resource Persons. Thirty farmers from Mottanakoppalu, Nagamangala Taluk were participated in the training programme. The programme was coordinated by Dr. H.M. Jayaprakasha, Head and Staff of Extension Education Center, Bangalore Region.

These training programmes were organised under the funding support from SAMETI (South).



## **Trainings organised by the EEC, Mangalore Campus**

### **(I) Training programme on “Poultry Farming”**

A training programme on “Poultry Farming” was organised by the Extension Education Center, Mangalore Campus in collaboration with Department of Animal Husbandry & Veterinary Services, Dakshina Kannada (DK) district at Panaje, Puttur taluk on 18<sup>th</sup> June, 2010. The programme was inaugurated by Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar. Sri. Ramesh Bhat, Director, SKADS and Dr. K. V. Halagappa, Deputy Director of Animal Husbandry, DK were participated as Chief Guests in the programme. Mr. Dayanand Adyar, President, Karnataka State Co-operative Poultry Farmers Union presided over the function. Sixty four enterprising farmers attended and benefited by the programme. A film show on modern techniques of poultry farming was also arranged on the occasion. Farmers were taken for an exposure visit to a nearby progressive poultry farm. Faculty of EEC, Mangalore coordinated the programme.

### **(ii) Training on “Polyculture of fish for food and nutritional security”**

Extension Education Center, Mangalore Campus organised a three-day training programme on “Polyculture of fish for food and nutritional security” for officers of line departments under the SMETI (North) during 20-22<sup>nd</sup> January, 2010. The training programme was inaugurated by Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar. Dr. K. M. Shankar, Dean (I/c), College of Fisheries, Mangalore presided. In addition to lectures, field visits to integrated fish farm of Krishi Pandith Award winning farmer at Chellur was arranged. Dr. S. D. Kallolgi, Professor, Directorate of Extension, UAS, Dharwad was present in the valedictory function. Faculty of EEW, Mangalore coordinated the programme.

### **(iii) Training on fish seed rearing**

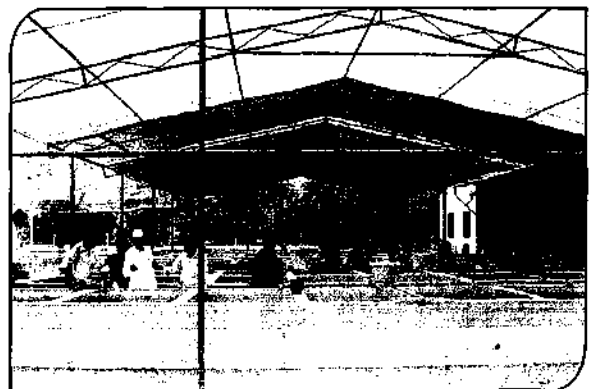
Extension Education Center, Mangalore Campus organised a three-day training on “Polyculture of fish and fish seed rearing” from 9<sup>th</sup> to 11<sup>th</sup> February, 2010, for the benefit of farmers. Farmers were trained on various aspects of polyculture and seed rearing techniques. In addition to lectures, farmers were also taken to field visit to progressive farmers farms.

### **(iv) Training programme on “Recent advances in freshwater fish and prawn farming”**

Extension Education Center, Mangalore Campus organised a three-day training programme from 15<sup>th</sup> to 17<sup>th</sup> February, 2010, for the benefit of officers of the line departments. Twenty six officers participated and benefited by the programme.

### **(v) Farmers Training on “Ornamental fish production”**

Extension Education Center (EEC), Mangalore Campus organised a three-day training on “Ornamental fish production” during 4-6 March, 2010, for the benefit of farmers. Thirty farmers and entrepreneurs participated in the training programme. A field visit to an enterprising ornamental fish farm was also arranged for the farmers. Faculty of EEC, Mangalore coordinated the programme





**(vi) Trainers Training on “Ornamental fish production and Maintenance”**

Extension Education Center, Mangalore Campus organised a three-day Trainers Training Programme on “Ornamental fish production and Maintenance” from 11<sup>th</sup> to 13<sup>th</sup> March, 2010, for the benefit of officers of the line departments. 14 officers participated and benefited by the training programme. Various aspects of ornamental fish production and maintenance were covered and officers were made visit to a well established ornamental fish farm in Vamanjur, Mangalore. Dr. H. Shivananda Murthy, Director of Extension, KVAFSU, Bidar participated in the Valedictory Function and presented the certificates and training materials to the participants. Faculty of EEW, Mangalore coordinated the programme.

**(vii) Off-Campus Training on “Ornamental fish production”**

Extension Education Center, Mangalore Campus organised one-day off-campus training on “Ornamental fish production” for the benefit of farmers of Puttur taluk on 20<sup>th</sup> March 2010. Sri. Monappa Karkera Hon'ble Member, Board of Management, KVAFSU participated in the training programme. Interested 27 farmers participated and benefited by the training programme. Faculty of EEC, Mangalore coordinated the programme.

**(viii) Off-Campus Training on “Goat Farming”**

Extension Education Center, Mangalore Campus organised a one-day off-campus training programme on “Goat Farming” in collaboration with Department of Animal Husbandry & Veterinary Services, Dakshina Kannada (DK) district and Farmers Association of Bellare at Bellare, Puttur (Tq), DK for the benefit of farmers. The programme was inaugurated by Dr. M. N. Rajanna, Assistant Director of Animal Husbandry of Sullya. Dr. Y. Basvaraju, Dean (Fisheries) presided over the programme. A documentary on goat farming was screened and the trainees were

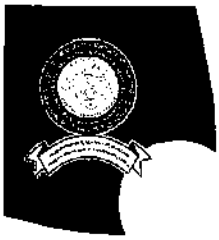
taken for a field visit to the goat farm of a progressive farmer, Mr. Mahadev Bhat of Bellare village and faculty of EEC, Mangalore coordinated the programme.



**(ix) Aquarium fabrication and ornamental fish production**

Extension Education Center, Mangalore Campus organised a one-day training programme on “Aquarium fabrication and ornamental fish production” on 4<sup>th</sup> May, 2010 at College of Fisheries, Mangalore for the benefit of unemployed youths and self help women groups. Enthusiastic 37 youths and members from self help women groups participated and benefited by the training programme. Faculty of EEC, Mangalore coordinated the programme





### **Training on 'Rapid diagnosis of Infectious bovine rhinotracheitis'**

Training was organized by SRDDL in collaboration with Bigtech, a biotech company on "Rapid diagnosis of Infectious bovine rhinotracheitis" during 15-16 January, 2010. Training was inaugurated by Dr. V. K. Arora, Director, CFSP&TI and Chairman Central Monitoring Unit (CMU) Min of Agriculture (GOI). A total of 25 participants attended the training. First hand information and training was given on usage of miniature real time PCR machine customized by Bigtech Company as per the diagnostic needs of southern regional disease diagnostic laboratory (SRDDL) Bangalore.

### **Training on 'Rapid diagnosis of Avian Influenza'**

Training program was organized by SRDDL in collaboration with FAO Khatmandu on "Rapid diagnosis of Avian Influenza" during 8-9 February, 2010. Training was inaugurated by Dr. Mohinder Oberai, Expert consultant on Avian Influenza, FAO Regional Office Khatmandu. A total of 20 participants attended the training from southern states. Hands on training were given on use of Avian Influenza ready to use rapid antigen detection kit.

### **Hands on Training on STD, Tuberculosis and Johne's disease**

Training program was organized by SRDDL in collaboration with Nandini Sperm station Hessaraghatta on "Hands on Training on STD, Tuberculosis and Johne's disease" from 08<sup>th</sup> to 12<sup>th</sup> March, 2010. Training was inaugurated by Dr. Venkateshaiah, Dean, Dairy Science College, Bangalore. A total of 15 participants attended the training. First hand information and practical training was given on different Sexually transmitted diseases both at laboratory and field level exposure at Nandini Sperm Station.

### **Animal Health Camps**

A Vaccination Camp was organized on 21-03-2010 at Hosakoppa village as a part of NSS Annual Special Camp of Veterinary College, Shimoga in association Dept. of AH & VS. About 500 animals were vaccinated against Foot & Mouth Disease. An Animal Health Camp was organized on 22-03-2010 in the same village. About 100 animals were treated in the camp. These programmes were sponsored by the Directorate of Extension, KVAFSU, Bidar. Faculty and students of Veterinary College, Shimoga actively participated in the programme. Dr. L. Manjunath, Assistant Professor, AHE, coordinated the activities.



**VII Finance and Budget**  
**Receipt and Expenditure 2009-10.**

<i>Receipts for 2009-10</i>				<i>Expenditure for 2009-10</i>			
S. No.	Particulars	Plan	Non-Plan	S. No.	Particulars	Plan	Non-Plan
<b>A</b>	<b>GENERAL FUNDS</b>			<b>A</b>	<b>GENERAL FUNDS</b>		
<b>I</b>	<b>Statutory Grants-State Govt.</b>			i)	General Administration		77.81
a)	Non Plan Grants	.00	1586.63	ii)	Teaching		1741.87
b)	Development Grants	4448.25	.00	iii)	Research		160.24
c)	Grants for Adhoc Schemes	2.21	.00	<b>TOTAL (i to iii)</b>		<b>.00</b>	<b>1979.92</b>
d)	Compensation for lands	.00	.00	iv	Schemes Sponsored by other Agencies	56.05	.00
<b>TOTAL (I)</b>		<b>4450.46</b>	<b>1586.63</b>	a)	Development – ICAR	173.98	.00
<b>II</b>	<b>Grants from other Agencies</b>	<b>57.94</b>	<b>.00</b>	b)	ICAR Coordinator Projects (75%)	55.13	.00
a)	Government of India	171.39	.00	c)	ICAR Coordinator Projects (100%)	67.55	.00
b)	ICAR	187.04	.00	d)	NAIP Projects	236.12	.00
i)	Development	305.75	.00	e)	Government of India Schemes	127.37	.00
ii)	Coordinated Projects	53.25	.00	f)	State Adhoc Projects	208.78	.00
iii)	MCM / RAWE / Fellowship / Internship Allowance	9.66	.00	<b>TOTAL iv (a to f)</b>		<b>924.98</b>	<b>.00</b>
iv)	NAIP Projects	111.39	.00	<b>A</b>	<b>Total A: GENERAL FUNDS</b>	<b>924.98</b>	<b>1979.92</b>
<b>TOTAL (II)</b>		<b>896.42</b>	<b>.00</b>	<b>B</b>	<b>FOUNDATION FUND</b>	<b>.00</b>	<b>.00</b>
<b>III</b>				<b>C</b>	<b>DEBT &amp; SUSPENCE A/C</b>	<b>.00</b>	<b>958.89</b>
a)	Income from Fees	.00	88.90	<b>TOTAL (A+B+C)</b>		<b>924.98</b>	<b>2938.81</b>
b)	Income from University property	.00	85.48	<b>Add: Closing Balance</b>		<b>3645.13</b>	
c)	Other Misc. Income	.00	75.27	<b>GRAND TOTAL</b>		<b>4570.11</b>	<b>2938.81</b>
<b>TOTAL (III)</b>		<b>.00</b>	<b>249.65</b>				
<b>A</b>	<b>TOTAL (A) GENERAL FUNDS</b>	<b>5346.88</b>	<b>1836.28</b>				
<b>B</b>	<b>FOUNDATION FUNDS</b>	<b>.00</b>	<b>.00</b>				
<b>C</b>	<b>DEPT &amp; SUSPENCE A/C.</b>	<b>.00</b>	<b>699.52</b>				
<b>TOTAL (A+B+C)</b>		<b>5346.88</b>	<b>2535.8</b>				
<b>Add: Opening Balance</b>		<b>2326.39</b>					
<b>GRAND TOTAL</b>		<b>7673.27</b>	<b>2535.8</b>				



## VIII INFRASTRUCTURE/DEVELOPMENT ACTIVITIES

### Veterinary College, Bidar

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Library Building	160.00	Completion Stage
2	Farmers Trainees Centre	95.00	Complete
3	Sports Pavilion building	111.00	Completed
	<b>Total</b>	<b>366.00</b>	

### Proposed Works

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of First Floor over existing Girls Hostel	95.61	First Floor Roof concreting complete (50%)
2	Educational Museum building	95.97	Roof concreting in progress (40%)
3	Development of sports facilities	42.10	Nearing completion (95%)
4	Construction of LPM Building	22.00	Under Progress (25%)
	<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	Nearing completion (95%)
2	Construction of main gate and approach road	42.00	Completing stage (90%)
3	Construction of piggery shed	20.00	Completed
4	Water supply work	18.85	Completed
5	Construction of Hatchery shed	33.00	Completed
	<b>Total</b>	<b>273.85</b>	

### Proposed Works

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of International student hostel	120.00	Under progress (40%)
2	Farmers Training Centre	30.00	Just started
	<b>Total</b>	<b>150.00</b>	

**Fisheries Research & Information Centre, Hebbal, Bangalore**

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of Hanging Bridge and drainage	3.15	Completed
2	Museum	5.00	Completed
	<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 pooland water filtration plant	21.00	Completed
2	Renovation of Indoor sports building	18.20	Completed
3	Electrification and Renovation to Extension Guest house	32.00	Completed
4	Repair of FPT building, Dept. of Technology wing	7.83	Completed
5	Repair and renovation of roof of Aquaculture laboratory building	9.00	Completed
6	Construction of cemented earthen fish ponds	3.50	Work is under progress
7	Construction of spawning aquaria shed	2.93	Under progress
8	Repair and renovation of A,CD & E type of cemented ponds, Dept. of Aquaculture	4.30	Under progress
	<b>Total</b>	<b>98.76</b>	

**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	Completed
2	Extension of 11KVA (3Phase) power HT line	6.50	CESC, O&M Division Kushalnagar-Deposit to be paid
	<b>Total</b>	<b>106.50</b>	



**Veterinary College, Shimoga Campus**

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Providing 11KVA HT power line	11.00	Completed
2	Instructional farms	80.70	Completed
3	Compound wall	194.50	Under progress and nearing completion
4	Providing electrification to the campus	109.70	Completed
5	Formation of road and drains	106.47	Completed
6	Construction of staff quarters	215.00	Completed
7	Construction of First Floor boys hostel	111.50	Completed
<b>Total</b>		<b>828.87</b>	

**Dari Science College, Mahagaon Cross, Gulbarga**

Sl. No.	Name of Work	Total Amount in Lakhs	Progress Details
1	Construction of boys hostel	177.00	Roof concreting completed (50%)
2	Construction of Buffalo shed	32.00	Completed
3	Construction of 'C' (4 Nos.) and 'D' (4 Nos.) type quarters	110.00	First floor roof concreting completed, flooring plastering works under progress
4	Construction of compound wall	100.00	Work order has been issued
5	Construction of main college building	450.00	Tenders will be invited shortly
<b>Total</b>		<b>869.00</b>	

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

**Veterinary College, Hassan Campus**

1. 72 Acres of land has been handed over to the University.
2. Administrative office building 3600 Lakhs work is being executed by KPWD on Deposit Contribution work basis 500.00 Lakhs has already been deposited.
3. Veterinary Clinical Complex - 1600.00
4. Piggery shed - 20.00 yet to be commenced
5. Chain link mesh fencing work - 4.55 Work order has been issued.