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3<sup>rd</sup> ANNUAL REPORT  
2007-08



KARNATAKA VETERINARY, ANIMAL  
AND FISHERIES SCIENCES UNIVERSITY  
Nandīnagar, P.B.No.6, Bidar - 585401, Karnataka



## Preface

It gives me immense pleasure to place the Third Annual Report of Karnataka Veterinary, Animal and Fisheries Sciences University, Nandinagar, Bidar, for the year 2007-08. The University with its basic mandate of being "Farmers Friendly & Rural Oriented" is striving hard to build up 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 constituent colleges there by contributing immensely towards the human resource development 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 66 students have completed their Master's degree and 13 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 outside 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 of farming community. The salient research findings for the period under report include studies on cryptosporidiosis in cattle, echinococcus granulosus infection in dogs, rumen microbial biomass synthesis and fiber digestion, diagnosis of obscure cattle diseases of malnad, evaluation of Kenguri breed of sheep, studies on culicoides midges in blue tongue disease development, induced breeding technologies for the Indian sand whiting, sillago sihama, development of molecular markers and their application in breeding of common carps etc. Out of the research work carried more than 100 publications have been made by the faculty in journals of National and International repute and more than 150 papers have been presented at different National and International symposia. A patent has been obtained by Government of India for the Novel Biofilm vaccine against bacterial diseases of birds and domestic animals and 3 technologies have been developed that include medical management of pyometra in bitches, test for detection of EUS fungus and carp lgm. About 14 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 and seminars across the University. A simple bioassay named Punyakoti Test has been developed for pregnancy diagnosis in cattle which has been popularized for the farmers through Krishi Melas and different Farmers forum.

The University has made a novel beginning in all fronts and I complement all the officers, faculty, staff and students for their sustained and hard effort in building this young University. I also appreciate the enthusiasm of the Members on the Board of Management in shaping the future of this University.

Sd/-

(Prof. Suresh, S. Honnappagol)  
Vice - Chancellor

Place: Bidar

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## Editorial

I am extremely happy to bring out the 3<sup>rd</sup> Annual Report of the Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar, for the period 2007-08. There has been unavoidable delay in publishing this Annual Report. KVAFSU has started two new Veterinary Colleges i.e., one at Shimoga and one at Hassan, in addition to the existing two Veterinary Colleges at Bangalore and Bidar to impart higher education in Veterinary and Animal Husbandry. Action has been initiated to start a Dairy Science College at Mahagaon, Gulbarga during the period under report in addition to the existing Dairy Science College at Hebbal, Bangalore to impart higher education in Dairy Science and Technology. College of Fisheries at Mangalore is the only Fisheries College in the University, so also in the State which impart Fisheries Education. Institute of Animal Health & Veterinary Biologicals (IAH&VB), Livestock Research & Information Centers (LRICs), Fisheries Research & Information Centers (FRICs) and Extension Education Wings (EEWs) have been carrying out research and extension education activities for the benefit of farming community in the State. University has started an Institute for Wild Life Veterinary Research & Extension at Kudige, Coorg.

Our students have performed exceedingly well in studies and getting JRF & SRF fellowships of the ICAR. They have also won several medals in the National level Athletic & Sports Meets and made significant achievements in the co-curricular activities.

A good number of projects have been sanctioned to the University during the period and sufficient research work has been turned out in the new as well as ongoing research projects. The research publications brought out by the faculty are included in the report.

The University teachers, scientists and extension faculty have carried out good number of training programmes, workshops, seminars, animal health camps, field days and other out reach programmes for the benefit of farming community in all the campuses of the University. 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 works carried out by the University during the period in the areas of education, research and extension have been documented in this report. I am sure, this Annual Report will serve as a useful reference material not only for the University faculty but also for the faculty of other related Universities and Institutes.

Place: Bidar

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

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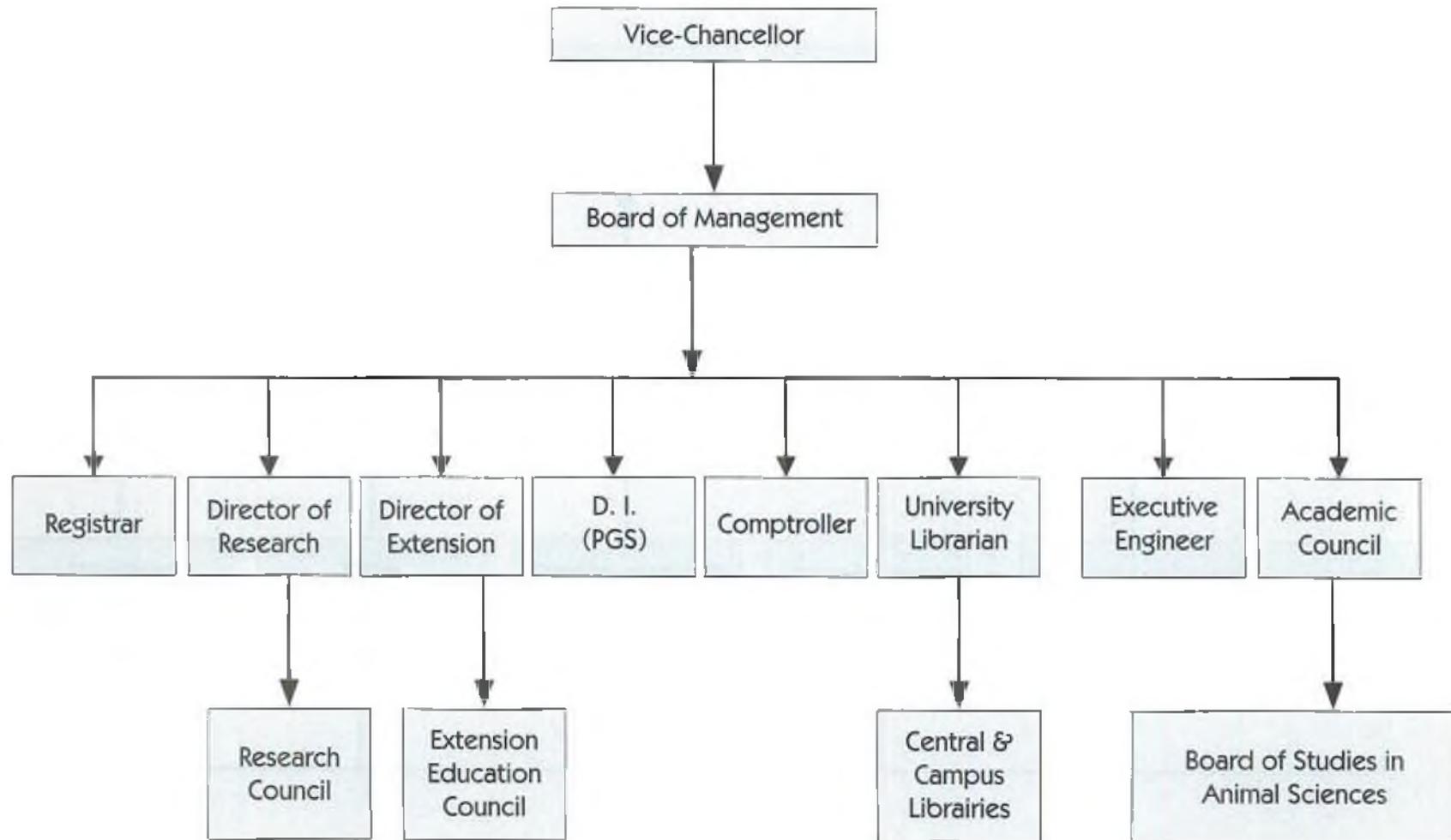
### Preface

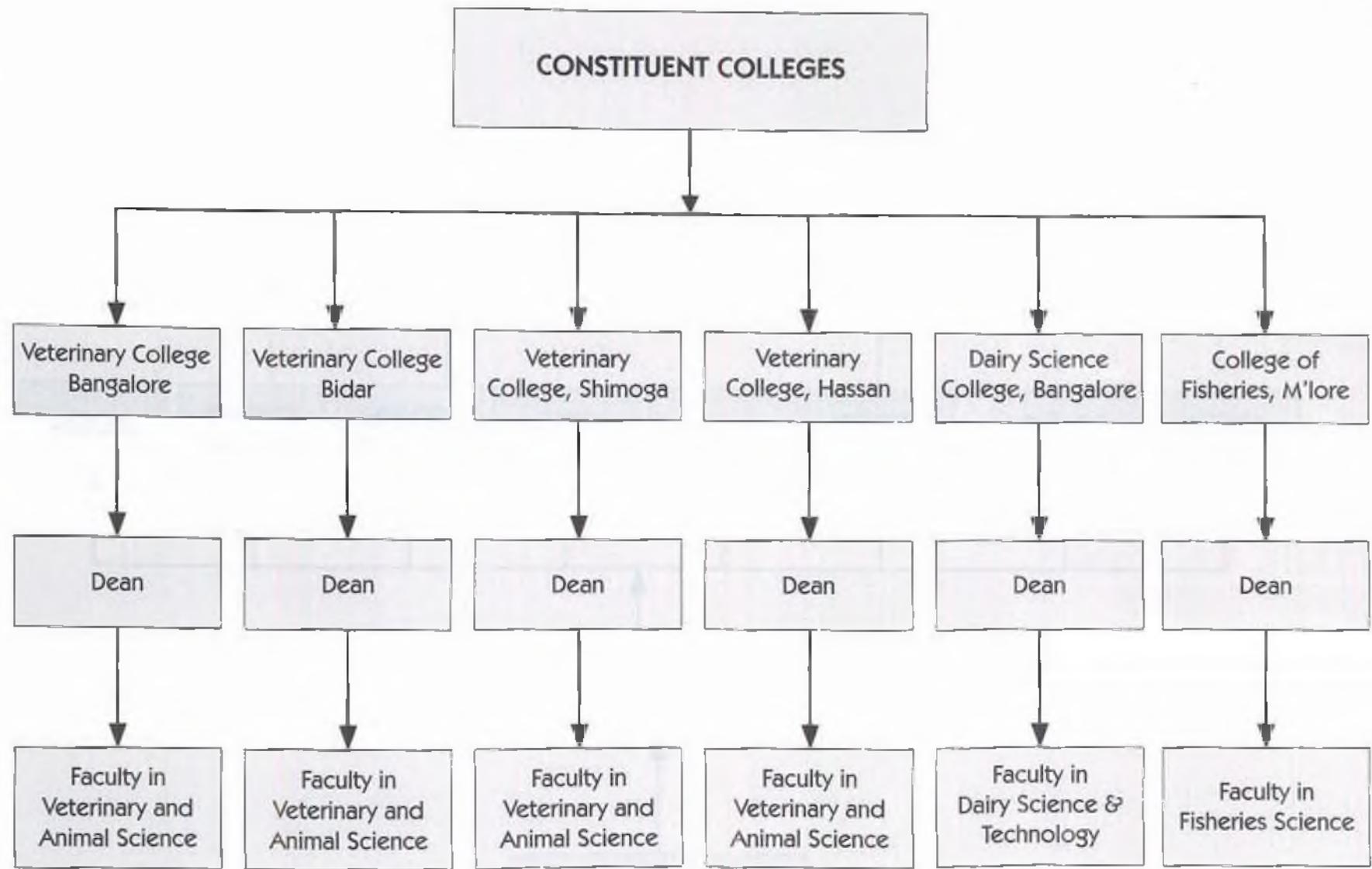
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## Organisational Setup





## *Mandate of the University*

The prime objective and mandate of the University are to uplift the rural livestock, poultry and fish farmers with a motto of "Rural Oriented and Farmer Friendly Activities". The University has a territorial jurisdiction of entire state of Karnataka covering the 29 districts. The major objectives of the University include,

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

## *Mission of the University*

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



## Governance

### BOARD OF MANAGEMENT OF THE UNIVERSITY

**Chairmen** : 1. Prof. R. N. Srinivasa Gowda (upto Feb 9<sup>th</sup>, 2008)  
2. Prof. G. S. Bhat (Feb to May 30<sup>th</sup>, 2008)  
Vice- Chancellors

**Ex- Officio Members** : The Principal Secretary to Govt. Department of AH & Fisheries or his nominee not below the rank of Joint Secretary.  
The Principal Secretary to Finance department of or his nominee not below the rank of Joint Secretary  
The Secretary to Govt. Law Department or his nominee not below the rank of Joint Secretary  
The Director of Animal Husbandry & Veterinary Services Govt. of Karnataka, Bangalore  
The Director of Fisheries, Govt. of Karnataka, Bangalore.  
The Registrar of the University, Member Secretary

### Other Members :

Members of the 1 <sup>st</sup> Board of Management (From 10-03-2005 to 10-03-2008)		Members of the new Board of Management (From March, 2008 to March, 2011)	
1.	Sri P. S. Nandakumar	1.	Dr. H. Channegowda
2.	Sri Samad Siddiqui	2.	Sri S. P. Putta Buddi
3.	Sri M. Rajanna	3.	Sri Monappa Karkera
4.	Dr. R. V. Patil	4.	Dr. H. T. Mohan Kumar
5.	Sri R. P. Kotekar	5.	Smt. Shobhavathi Phulare
6.	Sri Sheela Tiwari	6.	Dr. Gopala Gowda
7.	Dr. S. M. Jayadevappa (President), Karnataka Veterinary Council (VCI)	7.	Dr. S. M. Jayadevappa (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

### 2. Research and Extension Institutes

- 1) Institute of Animal Health & Veterinary Biologicals Bangalore, established in 1926.
- 2) Livestock Research and Information Center (Amruth Mahal and Hallikar), Konnehally, Tiptur.
- 3) Livestock Research and Information Center (Deoni), Hallikhed, Bidar.
- 4) Livestock Research and Information Center (Sheep), Nagamangala.
- 5) Fisheries Research and Information Center, Hessaraghatta.
- 6) Fisheries Research and Information Center, Hebbal, Bangalore.
- 7) Fisheries Research and Information Center (Marine), Ankola, Uttara Kannada.
- 8) Rural Veterinary Hospital, Yelahanka, Bangalore
- 9) Institute of Wildlife Veterinary Medicine, Kudige, Coorg District
- 10) Fish Seed Production Farm, Munirabad, Koppal (To be taken over).
- 11) Fish Seed Production Farm, Shivapura, Koppal (To be taken over).
- 12) Livestock Farm, Hessarghatta (To be taken over)
- 13) Livestock Breeding and Training Centre, Kurikuppe Bellary (To be taken over).
- 14) Institute for Toxicological Testing Centre, Shimoga (To be established).
- 15) Centre for Rabies Vaccine, Belgaum (To be established).



## Officers of the University during the period

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

## Executive Summary

The University has completed three years of existence and we have attained the status of a full fledged University. The University has appointed regular Officers and completed the recruitment of teachers in different faculties such as Veterinary, Animal, Poultry, Dairy and Fishery Sciences as per the Veterinary Council of India (VCI) and Indian Council of Agricultural Research (ICAR) norms. 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 for the 1<sup>st</sup> time and two batches were promoted during the period. Further, in Veterinary and Animal Science 33 got their Master's Degree and 2 got their Doctoral Degree. In Dairy Science 10 obtained their Master's Degree and 1 candidate have been awarded Doctoral Degree. In Fisheries Science 23 have taken their Master's Degree and 10 have taken their Doctoral Degree. It was a memorable occasion to open a three-in-one concept in restoration of Animal Health viz., Animal Hospital, Diagnostic Laboratory and Information Centre at APMC Yard Bidar. For the production of vaccination, bio-fermentors as well as disease diagnosis bio-safety laboratory was also added to Institute of Animal Health and Veterinary Biologicals (IAH&VB).

### Education

The teaching activities were carried out in three major disciplines at five campuses through six colleges under the jurisdiction of this University. Undergraduate degree programmes in Veterinary and Animal Husbandry were offered at Bidar, Bangalore, Shimoga and Hassan, Dairy Science and Technology at Bangalore 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 2007-08 and the intake was 398 students, comprising 255 for

graduate studies and 143 for postgraduate studies. Among 255 under graduate students, admitted to various degree programmes 215 were for BVSc & AH degree at Bangalore, Bidar, Shimoga and Hassan campuses and 23 for B.Tech (Dairy) degree and 17 for Bachelor in Fisheries Science Degree. Out of 143 post graduate students, 91 for Master's Degree in Veterinary & Animal Science and 19 for MSc. Degree in Dairy Technology and 33 for Master's Degree in Fisheries Science.

Out of total 62 post graduate students, who were awarded degrees in different disciplines of University, 32 are from Veterinary Faculty, 9 from Dairy Science faculty and 21 are from Fisheries faculty.

Many graduates of this University qualified in ICAR Junior Research Fellowship and secured PG admissions in many prestigious institutes like IVRI, CIFE, NDRI, CCS, HAU, etc.,

### Research

KVAFSU has operated research projects with funding support to the tune of Rs. 17.00 crores 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 Hesaraghatta and Hebbal, Bangalore have been actively working on fish seed production, genetic improvement of carps and ornamental fish breeding. The Marine Fisheries Research and Information Centre at Ankola, Uttar Kannada 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 and Bidar Campuses for transfer of technology to reach the un-reached. The University is propagating and popularizing its technologies to the farmers through training programmes, demonstrations, health camps, 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.

Institute of IAH & VB, Bangalore has produced 295.626 lakh doses including both bacterial and viral vaccines. It has screened 78,986 samples for analysis of various diseases.

The Departments of Medicine, Surgery and Gynaecology of Veterinary College, Bidar and Bangalore provided diagnosis and treatment for more than 20000 livestock and advise to farmers.

The Pathology Department of Bangalore conducted 5000 post mortems of livestock to diagnose the diseases and also helped in solving the Vetro legal cases. Department of Veterinary and Animal Husbandry Extension, Bidar, Bangalore and Shimoga organized 27 on farm demonstrations on scientific livestock production practices to the practicing farmers, farm women and unemployed youth and prepared project and feasibility reports for establishing various livestock enterprises for 80 farmers.

The University has organized 27 animal health camps / livestock shows and exhibitions, 89 training programmes to farmers and officers of the Central and State Governments. The faculty members participated in 230 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 14 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 the University supplied 227 piglets, 1.50761 lakh Giriraja chicks, 1.92863 lakh fertile eggs and 9.22 lakh fish fingerlings and 42,960 Hybrid Napier root slips to the farmers within the State.

### Sports/NSS/Cultural Activities

The students have been given adequate platform to exhibit their talents in sports and cultural activities. The students won prizes in national level, mono acting, group songs, folk dance and extempore at the 8<sup>th</sup> All India Inter-Agriculture University Youth Festival held at Raipur. The students also participated in Agricultural Universities Festival and won a gold, a silver and a bronze medal. The six NSS units of constituent colleges of the University organized 10 days special annual camps in the adopted villages with an objective of over all personality development of students through community service.

**Meetings of Board of Management, KVAFSU, Bidar**

Held during 01-04-2007 to 31-03-2008

- 1) 15<sup>th</sup> Meeting of Board of Management was held on 7<sup>th</sup> April, 2007 at Bidar.
- 2) 16<sup>th</sup> Meeting of Board of Management was held on 12<sup>th</sup> June, 2007 at Bidar.
- 3) 17<sup>th</sup> Meeting of Board of Management was held on 27<sup>th</sup> August, 2007 at Bidar.
- 4) 18<sup>th</sup> Meeting of Board of Management was held on 19<sup>th</sup> October, 2007 at Bangalore.
- 5) 19<sup>th</sup> Meeting of Board of Management was held on 19<sup>th</sup> December, 2007 at Bidar.
- 6) 20<sup>th</sup> Meeting of Board of Management was held on 23<sup>rd</sup> January, 2008 at Bangalore.
- 7) 21<sup>st</sup> Meeting of Board of Management was held on 2<sup>nd</sup> February, 2008 at Mangalore.
- 8) 22<sup>nd</sup> Meeting of Board of Management was held on 9<sup>th</sup> March, 2008 at Bangalore.

**Meetings of Academic council, KVAFSU, Bidar**

Held during 01-04-2007 to 31-03-2008

- 1) 4<sup>th</sup> Meeting of Academic Council was held on 4<sup>th</sup> June, 2007 at Bidar.
- 2) 5<sup>th</sup> Meeting of Academic Council was held on 25<sup>th</sup> August, 2007 at Bidar.

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## II. RESEARCH

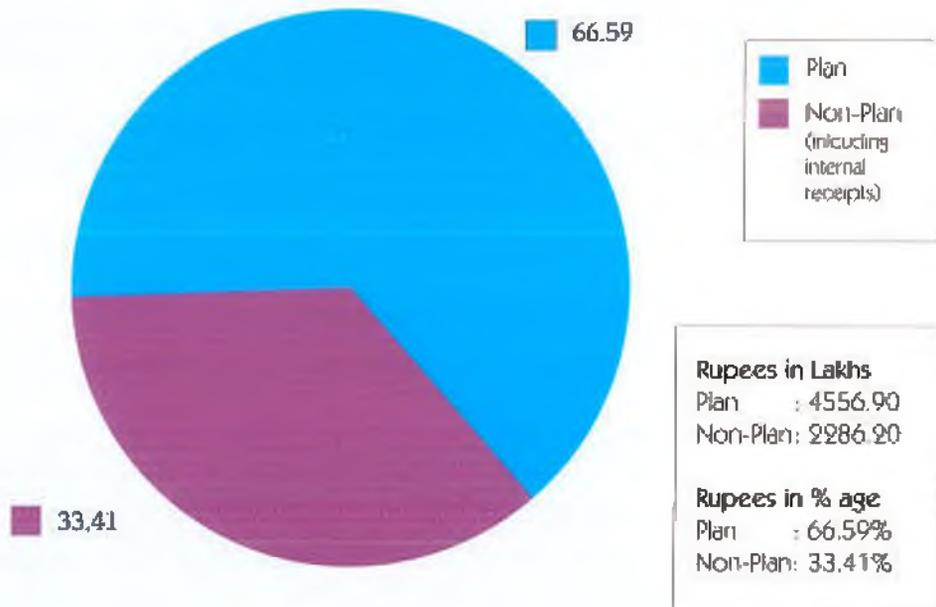
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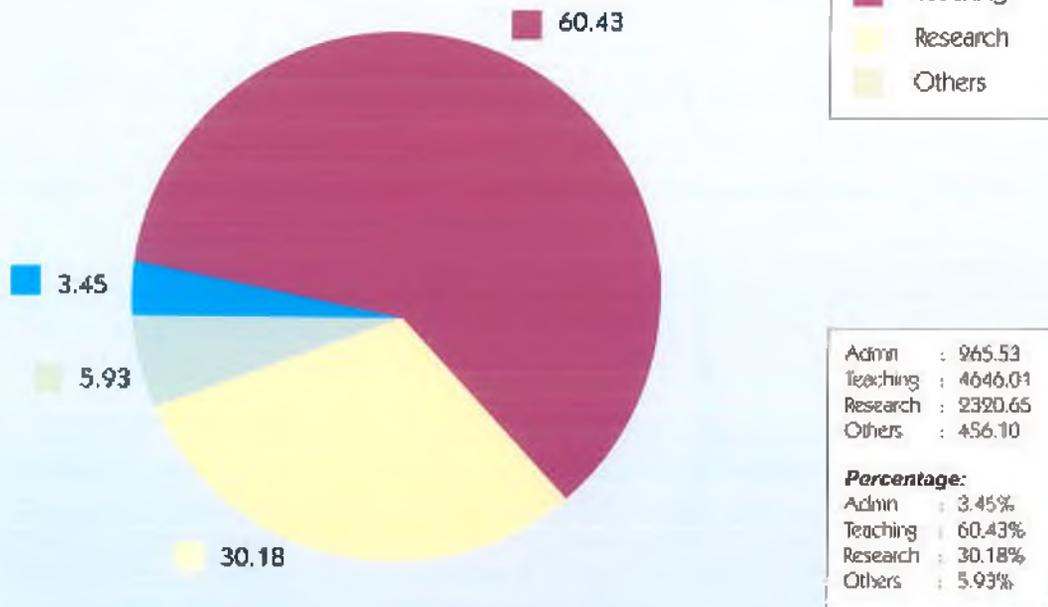
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## Revenue Generation and Expenditure during 2007-08

### RECEIPT FOR THE YEAR 2007-08



### EXPENDITURE FOR THE YEAR 2007-08



## Revenue Generation and Expenditure during 2007-08

### RECEIPTS AND EXPENDITURE

#### Abstract Estimates of Receipts

Rs. In Lakhs

Sl. No.	Particulars	Accounts for 2006-07		Budget for 2007-08		Revised Budget for 2007-08		Budget for 2008-09	
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan
<b>A</b>	<b>GENERAL FUNDS</b>								
1	Statutory Grants from State Govt.	-	-	-	-	-	-	-	-
a.	Non Plan Grants	0.00	1,378.95	0.00	1,330.10	0.00	1530.10	0.00	1591.30
b.	Developmental Grants	1,598.39	0.00	2,330.00	0.00	3,380.00	0.00	2,060.00	0.00
c.	Grants for Adhoc Schemes	343.89	0.00	0.00	0.00	34.00	0.00	0.00	0.00
d.	Refund of Gratuity & Commutation etc.,	0.00	0.00	131.90	0.00	0.00	0.00	0.00	0.00
e.	Compensation for lands	0.00	0.00	0.00	0.00	208.56	0.00	0.00	0.00
	<b>TOTAL (I)</b>	<b>1942.28</b>	<b>1378.95</b>	<b>2461.90</b>	<b>1330.10</b>	<b>3622.74</b>	<b>1530.10</b>	<b>2060.00</b>	<b>1591.30</b>
<b>II</b>	<b>GRANTS FROM OTHER SOURCES, ICAR ETC.,</b>	33.40				82.20			
a	Government of India	150.06				474.51			
b	ICAR								
	i) Development	511.02				126.02			
	ii) Coordinated Projects	112.38				251.43			
	<b>TOTAL (II)</b>	<b>806.86</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>934.16</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>III</b>	<b>INTERNAL RESOURCES</b>								
a	Income from Fees		91.38		90.00		74.66		85.41
b	Income from University property		108.33		30.00		62.00		76.40
c	Other Misc. Income		50.18		30.00		163.34		158.19
	<b>TOTAL (III)</b>	<b>0.00</b>	<b>249.89</b>	<b>0.00</b>	<b>150.00</b>	<b>0.00</b>	<b>300.00</b>	<b>0.00</b>	<b>320.00</b>
<b>A</b>	<b>TOTAL (A) GENERAL FUNDS</b>	<b>2749.14</b>	<b>1628.84</b>	<b>2461.90</b>	<b>1480.10</b>	<b>4556.90</b>	<b>1830.10</b>	<b>2060.00</b>	<b>1911.30</b>
<b>B</b>	<b>FOUNDATION FUNDS</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>C</b>	<b>DEPT &amp; SUSPENCE A/C.</b>		1032.66		697.64		456.10		470.00
	<b>TOTAL (A+B+C)</b>	<b>2749.14</b>	<b>2661.50</b>	<b>2461.90</b>	<b>2177.74</b>	<b>4556.90</b>	<b>2286.20</b>	<b>2060.00</b>	<b>2381.30</b>
	Add: Opening Balance	281.02	-457.97	827.82	-193.62	1148.62	-172.13	528.02	-396.72
	<b>GRAND TOTAL</b>	<b>3030.16</b>	<b>2203.53</b>	<b>3289.72</b>	<b>1984.12</b>	<b>5705.52</b>	<b>2114.07</b>	<b>2588.02</b>	<b>1984.58</b>



## ABSTRACT ESTIMATES OF EXPENDITURE

Rs. In Lakhs

	Particulars	Accounts for 2006-07		Budget for 2007-08		Revised Budget for 2007-08		Budget for 2008-09	
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan
<b>A</b>	<b>GENERAL FUNDS</b>								
i	General Administration	0.00	119.78	14.35	166.15	0.00	265.53	65.00	368.74
ii	Teaching	521.31	1018.03	1863.35	1352.25	2885.32	1634.67	1652.92	1519.33
iii	Research	0.00	80.72	200.00	144.25	211.90	154.49	174.43	109.38
iv	Development Schemes - State	674.43	0.00	997.83	0.00	1015.43	0.00	179.65	0.00
	<b>TOTAL (i to iv)</b>	<b>1195.74</b>	<b>1218.53</b>	<b>3075.53</b>	<b>1662.65</b>	<b>4112.65</b>	<b>2054.69</b>	<b>2072.00</b>	<b>1997.45</b>
v	Schemes Sponsored by other Agencies	41.63		0.00		82.21		0.00	
vi	Plan Schemes of the University	0.00		0.00		0.00		0.00	
a)	Development - ICAR	343.77		0.00		126.02		0.00	
b)	ICAR Co-ordinator Projects (75%)	56.80		35.68		35.68		0.00	
c)	ICAR Co-ordinator Projects (100%)	101.84		51.23		197.75		0.00	
d)	Government of India Schemes	107.69		13.96		274.51		0.00	
e)	State Plan Schemes (Adhoc)	34.07		314.50		348.68		0.00	
	<b>TOTAL vi (a to e)</b>	<b>644.17</b>	<b>0.00</b>	<b>415.37</b>	<b>0.00</b>	<b>982.64</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>A</b>	<b>TOTAL A : GENERAL FUNDS</b>	<b>1881.54</b>	<b>1218.53</b>	<b>3490.90</b>	<b>1662.65</b>	<b>5177.50</b>	<b>2054.69</b>	<b>2072.00</b>	<b>1997.45</b>
<b>B</b>	<b>FOUNDATION FUND</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>C</b>	<b>DEBT &amp; SUSPENCE A/C.</b>	0.00	1157.13	0.00	697.64	0.00	456.10	0.00	470.00
	<b>TOTAL (A+B+C)</b>	<b>1881.54</b>	<b>2375.66</b>	<b>3490.90</b>	<b>2360.29</b>	<b>5177.50</b>	<b>2510.79</b>	<b>2072.00</b>	<b>2467.45</b>
	Add : Closing Balance	1148.62	(172.13)	(201.18)	(376.17)	528.02	(396.72)	516.02	(482.87)
	<b>GRAND TOTAL</b>	<b>3030.16</b>	<b>2203.53</b>	<b>3289.72</b>	<b>1984.12</b>	<b>5705.52</b>	<b>2114.07</b>	<b>2588.02</b>	<b>1984.58</b>

### Infrastructure/ Development Activities (Buildings, Laboratories and other works)

The clinical facilities in the Veterinary College, Hospital was renovated and modernized. The Renovated Clinical facilities of the Department of Clinical veterinary Medicine was inaugurated by Hon'ble Vice Chancellor Prof.G.S.Bhat on 11.7.07. The transfusion Medicine unit was inaugurated by Former Hon'ble Vice Chancellor of KVAFSU Prof.R.N.Sreenivas Gowda.

## I. EDUCATION (Teaching)

### A. Undergraduate Programme

#### 1) No. of students admitted / on roll

Sl. No.	Degree Programme	Institute	Year					No. Passed out
			I	II	III	IV	V	
1.	B.V.Sc. & A.H.	Veterinary College, Bangalore	80	83	61	66	68	76
2.	B.V.Sc. & A.H.	Veterinary College, Bidar	72	61	52	61	53	55
3.	B.V.Sc. & A.H.	Veterinary College, Shimoga	36	24	-	-	-	-
4.	B.V.Sc. & A.H.	Veterinary College, Hassan	27	-	-	-	-	-
5.	B.Tech (D.Tech)	Dairy Science College, Bangalore	23	24	24	25	-	26
6.	B.F.Sc.	College of Fisheries, Mangalore	17	14	38	28	-	28

#### 2) Gold Medalists (College wise)

Sl. No.	ID.No.	Name	Institute	OGPA	Medals/Awards
1	DK 308	Monika Poddar	Dairy Science College, Bangalore	8.78	Gold Medalist

#### 3) Scholarships

##### A) Veterinary College, Hebbal, Bangalore

###### I Year B.V.Sc. & A.H.

Sl. No.	Name of the Scholarship	Name of the student	ID.No.	Year
1.	Fee Concession	AMIT PUTHANIKAR U	VHK704	2007-08
2.		MADAN K V	VHK730	2007-08
3.		YUGANHAR MANVI	VHK772	2007-08
4.		VINAYAK R PATIL	VHK770	2007-08
5.		NAGARAJ N JALLER	VHK738	2007-08
6.		BASAVARAJ B HUKKERI	VHK708	2007-08
7.		BASAVARAJ K	VHK709	2007-08

###### II Year B.V.Sc. & A.H.

1.	Fee Concession	BASAVARAJAPPA K M	VHK607	2007-08
2.		MAHESH SAVANUR	VHK629	2007-08
3.		MANIUNATHACHAR H V	VHK635	2007-08
4.		VISHWANATH B	VHK679	2007-08
5.		P R BHARATHKUMAR	VHK509	2007-08

###### III YEAR B.V.Sc. & A.H.

1.		ASHOK H NILAJAGI	VHK505	2007-08
2.		R KANTHARAJU	VHK520	2007-08
3.		KAVERI	VHK521	2007-08

###### IV YEAR B.V.Sc. & A.H.

1.	Fee Concession	AJITH B	Vk401	2007-08
2.		ANITHA SRIRAM C R	Vk403	2007-08
3.		ARLIN KUMAR K	Vk406	2007-08
4.		V ASWATHNARAYANAPPA	Vk410	2007-08
5.		BHARATHRAJU S V	Vk415	2007-08
6.		CHANDRAMOHAN S	Vk417	2007-08



7.		GOVINDAPPA P	Vk423	2007-08
8.		HARISH K N	Vk426	2007-08
9.		HUCHHE GOWDA K H	Vk427	2007-08
10.		MANIKANTH C L	Vk438	2007-08

**V YEAR B.V.Sc. & A.H.**

1.	Fee Concession	MANJUNATHA D. R.	Vk328	2007-08
2.		MANJUNATHA N. S.	Vk329	2007-08
3.		NAGAPPA BANUVALLI	Vk338	2007-08
4.		RAVIKIRAN H. P.	Vk351	2007-08
5.		SANDESH M.	Vk354	2007-08
6.		SANJEEVKUMAR S. N.	Vk356	2007-08
7.		VIJAY N.	Vk371	2007-08
8.		PRABHUDEVA A. N.	Vk237	2007-08
9.		RAVI A.M.	VK248	2007-08

**I YEAR B.V.Sc. & A.H.**

1.	Category I	CHAITHRA Y	VHK711	2007-08
2.		SUSHRUT KUMAR	VHK764	2007-08
3.		PINJARI MOHD. RASHEED	VHK745	2007-08
4.		HARISH KUMAR D V	VHK721	2007-08
5.		SWAROOP G L	VHK765	2007-08

**II YEAR B.V.Sc. & A.H.**

1.	Category I	ARCHANA M	VHK603	2007-08
2.		K NAGARJUNA	VHK620	2007-08
3.		VENKATESH N	VHK671	2007-08

**III YEAR B.V.Sc. & A.H.**

1.	Category I	SUNIL KUMAR K	VHK564	2007-08
2.		VINAYKUMAR S M	VHK571	2007-08

**IV YEAR B.V.Sc. & A.H.**

1.	Category I	NIRANJAN B H	Vk466	2007-08
2.		SHIVAKUMAR M U	Vk460	2007-08

**V YEAR B.V.Sc. & A.H.**

1.	Category I	LOHITH J	Vk323	2007-08
2.		MOHAMED GHOUSE H	Vk334	2007-08
3.		RAJESH KHARVI K	Vk348	2007-08
4.		RAMESH BABU S M	Vk349	2007-08

**I<sup>st</sup> YEAR B.V.Sc. & A.H.**

1.	General Scholarship	SHWETHA R	VHK757	2007-08
2.		YUGANDHAR MANVI	VHK772	2007-08
3.		ANANDA G	VHK705	2007-08
4.		NIRANJANA S	VHK742	2007-08
5.		PRAKASH H M	VHK746	2007-08
6.		LOKESHA D N	VHK729	2007-08
7.		BASAVARAJ K U	VHK709	2007-08

**II<sup>nd</sup> YEAR B.V.Sc. & A.H.**

1.	General Scholarship	MANJUNATHA CHAR	VHK632	2007-08
2.		ARCHANA M	VHK603	2007-08
3.		BALAJI	VHK605	2007-08

4.		SHANTHESHA K M	VHK659	2007-08
5.		B L BALARAJU	VHK606	2007-08
6.		RAVI KUMAR S	VHK653	2007-08
7.		RAJAPEER BADIGER	VHK651	2007-08

#### III<sup>rd</sup> YEAR B.V.Sc. & A.H.

1.	General Scholarship	KAVERI	VHK521	2007-08
2.		ASHOK H NILAJAGI	VHK505	2007-08
3.		CHANDRE GOWDA C T	VHK510	2007-08
4.		G THIMMARAJU	VHK568	2007-08
5.		NAGABHUSHANA H V	VHK532	2007-08
6.		RAJESH M	VHK546	2007-08

#### IV<sup>th</sup> YEAR B.V.Sc. & A.H.

1.	General Scholarship	RAVIKUMAR K P		2007-08
2.		GOVINDAPPA P		

#### V<sup>th</sup> YEAR B.V.Sc. & A.H.

1.	General Scholarship	MANJUNTHA N S	Vk329	2007-08
2.		MANJUNATHA D R	VK328	
3.		APSANA R	VK305	
4.		SANTHOSH K M	VK357	
5.		SANDESH M	VK354	
6.		MANJUNATHA V	VK330	
7.		NAVEEN B R	VK342	

#### I<sup>st</sup> YEAR B.V.Sc. & A.H.

1.	Merit Scholarship	AMIT PUTHANIKKA	VHK704	2007-08
2.		SOMASHEKHAR B.GOUDA	VHK759	

#### II<sup>nd</sup> YEAR B.V.Sc. & A.H.

1.	Merit Scholarship	BHARATH KUMAR M L	VHK608	2007-08
2.		MAHESH SAVANUR	VHK629	

#### III<sup>rd</sup> YEAR B.V.Sc. & A.H.

1.	Merit Scholarship	MAHESH M S	VHK526	2007-08
2.		RAKESH H B	VHK547	

#### IV<sup>th</sup> YEAR B.V.Sc. & A.H.

1.	Merit Scholarship	HUCHHE GOWDA K H	VK427	2007-08
2.		CHETHAN A B	Vk413	

#### V<sup>th</sup> YEAR B.V.Sc. & A.H.

1.	Merit Scholarship	ANIL K U	VK304	2007-08
2.		HARISH N	Vk318	

#### B) Veterinary College, Bidar Under Graduate KVAFSU MERIT SCHOLORSHIP

##### 1<sup>st</sup> Year BVSc & AH

1.	Merit Scholarship	Sangamesh Angadi	VNK-740	2007-08
2.		Md. Shoab	VNK-719	2007-08

#### RESERVE

1		Chandrashekhar Bulgouda	VNK-706	2007-08
2		Shivanand Samsuddi	VNK-745	2007-08



2 <sup>nd</sup> Year BVSc & AH				
1		SANTHOSH SHINDE	VNK-639	2007-08
2		VINODKUMAR V	VNK-655	2007-08
RESERVE				
1		SUNITHA, R	VNK-651	2007-08
2		RAGHUNATHA REDDY, R	VNK-631	2007-08
3		P. KRITHIKA	VNK-625	2007-08
3 <sup>rd</sup> Year BVSc & AH				
1		SUMANTH, B.E.	VNK-544	2007-08
2		HARISH KULKARNI	VNK-514	2007-08
RESERVE				
1		AVINASH REDDY, D	VNK-505	2007-08
2		D.T. DINESH	VNK-511	2007-08
1 <sup>st</sup> Year BVSc & AH Under Graduate KVAFSU GENERAL SCHOLORSHIP				
1		SURESH GONDE	VNK-754	2007-08
2		SHIVASHARANAPPA LIKKALI	VNK-746	2007-08
3		CHANDRASHEKHAR BULGOUDA	VNK-706	2007-08
4		SHIVANAND SAMSUDDI	VNK-745	2007-08
5		SUNILKUMAR	VNK-752	2007-08
6		YAMANAPPA NAGANUR	VNK-762	2007-08
7		UMESH MIRJE	VNK-755	2007-08
2 <sup>nd</sup> Year BVSc & AH				
1		RAGHUNATHA REDDY, R	VNK-631	2007-08
2		DHANANJAY, K	VNK-609	2007-08
3		SHARANAGOUDA	VNK-645	2007-08
4		PRASHANTKUMAR	VNK-630	2007-08
5		MALLIKARJUN SANNADANI	VNK-617	2007-08
6		SATHISH, N	VNK-642	2007-08
3 <sup>rd</sup> Year BVSc & AH				
1		AVINASH REDDY, D	VNK-505	2007-08
2		SHIVANAND MAGADUM	VNK-534	2007-08
3		SUBRAMANI, K.V.	VNK-542	2007-08
4		VIDYAMANI, B.M.	VNK-552	2007-08
5		BHAGYA, T.N.	VNK-506	2007-08
C) Veterinary College, Shimoga I B.V.Sc & A.H				
1	BCA	G.Raghavendra	VSK-702	2007-08
2		Sandeep N	VSK-722	2007-08
3		Shanaz Mahmood	VSK- 727	2007-08
4		Shruthi S.K	VSK- 729	2007-08
5		Siddaroodh Mokashi	VSK-730	2007-08
6		Vijayakumar	VSK-733	2007-08
7		Vijayakumar Jawalagatti	VSK-734	2007-08
8		Anitha M	VSK-601	2007-08
II B.V.Sc & A.H				
9		Prashanthkumar K.S	VSK- 611	2007-08
10		Ramanagouda Patil	VSK 614	2007-08

11		Ramesha K	VSK- 616	2007-08
12		Swethashree M.J	VSK- 621	2007-08
13		Venkatesh S.M	VSK-622	2007-08
14		Vishwanath Badami	VSK-624	2007-08
<b>I B.V.Sc &amp; A.H</b>				
1	University Merit Scholarship	Mohamed Arif	VSK- 712	2007-08
2		Shruthi S.K	VSK- 729	2007-08
<b>II B.V.Sc &amp; A.H</b>				
1		Karthik Y.A	VSK- 606	2007-08
2		Nagaraj K.H	VSK- 607	2007-08
<b>I B.V.Sc &amp; A.H</b>				
1	University General Scholarship	Sandeep N	VSK-722	2007-08
2		Siddaroodh Mokashi	VSK-730	2007-08
3		Vijayakumar	VSK-733	2007-08
4		Vijayakumar Jawalagatti	VSK- 734	2007-08
<b>II B.V.Sc &amp; A.H</b>				
1		Prashanthkumar K.S.	VSK- 611	2007-08
2		Swethashree	VSK- 621	2007-08
3		Venkatesh S.M.	VSK- 622	2007-08
<b>II B.V.Sc &amp; A.H</b>				
1	Fee concession	Anitha M.	VSK-601	2007-08
2		Karthik Y.A.	VSK-606	2007-08
3		Nagaraj K.H	VSK-607	2007-08
<b>II B.V.Sc &amp; A.H</b>				
1	EBL Charges from BCM	Naveenkumar P.	VSK-608	2007-08
2		Prashanth Talwar	VSK-610	2007-08
3		Ranjitha V.H.	VSK-617	2007-08
<b>I B.V.Sc &amp; A.H</b>				
1		Kaviraj Airani	VSK-702	2007-08
<b>I B.V.Sc &amp; A.H</b>				
1	Handicap Scholarship	Manasa R.Kottadamane	VSK-709	2007-08

#### D) Veterinary College, Hassan

Sl. No.	Name of the scholarship	Name of the Student	I.D. No.	Year
1	Merit Scholarship (KVAFSU)	Dhananjaya C.N.	HVK 707	2007-08
2		Siddaramesh A.S.	HVK 722	2007-08
1	General scholarship (KVAFSU)	Chetan G.N.	HVK 705	2007-08
2		Santhosh Gowda N.	HVK 718	2007-08
3		Vinay B.A.	HVK 727	2007-08



1	GOI scholarship	Sunil Kumar K.N	HVK 724	2007-08
2		Raghu Naik.K	HVK 717	2007-08
3		Shreyas B.Raj	HVK 721	2007-08
4		Chandra Naik.M	HVK 704	2007-08

#### E) Dairy Science College, Bangalore

Sl. No.	Name of the scholarship	Name of the Student	I.D. No.	Year
1	Merit Scholarship	Vishnu Dathurao	DK 722	2007-08
2		Lavanya. Y. N.	DK 706	2007-08
3		Chaitra. B. J.	DK 603	2007-08
4		Manjunatha. H. N.	DK 610	2007-08
5		Tharuja. D.	DK 525	2007-08
6		Somashekar Reddy. P. V.	DK 521	2007-08
7		Ashwini. M. R.	DK 402	2007-08
8		Rashmi. H. M.	DK 415	2007-08
9		Shwetha. R.	DK 714	2007-08
10		Shabnam Kouser	DK 713	2007-08
11		Swapna. K. S.	DK 718	2007-08
12		Lingaraj. D. S.	DK 607	2007-08
1	General Scholarship	Mamtha. R.	DK 609	2007-08
2		Sowmya. R.	DK 621	2007-08
3		Naveen Kumar. A. C.	DK 514	2007-08
4		Nagamani. S. R.	DK 412	2007-08
5		Greeshma Raj. B.	DK 407	2007-08
6		Subhashini. V.	DK 419	2007-08
1	Jindal Scholarship	Archana. M.	DK 501	2007-08
2		Nayana. S.	DK 515	2007-08
3		Raghavendra. M. V.	DK 517	2007-08

#### F) College of Fisheries, Mangalore

	Name of the scholarship	Name of the Student	I.D. No.	Year
I <sup>st</sup> B.F.Sc.	Merit Scholarship	1 Baru, S.	FK 701	2007-08
		2 Manjulashri Shenoy	FK 706	2007-08
II <sup>nd</sup> B.F.Sc.	Merit Scholarship	1. Leo Cyril Antonyraja	FK 605	2007-08
		2. Asha	FK 602	2007-08
III <sup>rd</sup> B.F.Sc.	Merit Scholarship	1. Murali, S.	FK 517	2007-08
		2. Mujahidkhan Pathan	FK 515	2007-08
IV <sup>th</sup> B.F.Sc.	Merit Scholarship	1. Gyanchandra	FK 411	2007-08
		2. Anu Bollamma	FK 405	2007-08
	General Scholarship	1. Raksha, K.M.	FK 422	2007-08
		2. Rajin Kumar, K.D.	FK 421	2007-08

**B. Postgraduate Programme**
**1. No. of students admitted**
**A) Veterinary College, Bangalore**

Sl. No.	Department	Masters Degree		Ph.D.	
		On roll	Completed	On roll	Completed
1.	Vety. Anatomy	04	-	-	-
2.	Vety. Physiology	03	03	-	-
3.	Vety. Pharmacology & Toxicology	06	-	01	-
4.	Vety. Pathology	10	05	05	01
5.	Vety. Parasitology	04	03	01	02
6.	Vety. Microbiology	13	05	03	-
7.	Vety. Medicine	08	01	-	-
8.	Vety. Surgery & Radiology	02	02	01	01
9.	Vety. Gynaecology & Obstetrics	08	02	04	-
10.	Animal Nutrition	04	03	06	02
11.	Animal Genetics and Breeding	05	3	02	-
12.	Livestock Production and Management	04	1	-	-
13.	Livestock Production and Technology	03	-	-	-
14.	Poultry Science	06	-	4	-

**B) Veterinary College, Bidar**

Sl. No.	Department	Masters Degree		Ph.D.	
		On roll	Completed	On roll	Completed
1.	M.V.Sc	11	4	-	-

**C) Dairy Science College, Bangalore**

Sl. No.	Department	Masters Degree		Ph.D.	
		On roll	Completed	On roll	Completed
1.	Dairy Technology	11	04	04	01
2.	Dairy Chemistry	06	04	01	-
3.	Dairy Microbiology	02	01	-	-

**D) College of Fisheries, Mangalore**

Sl. No.	Department	Masters Degree		Ph.D.	
		On roll	Completed	On roll	Completed
1.	M.F.Sc.	33	21	18	11
2.	Aquaculture	07	--	03	--
3.	Fishery Microbiology	07	--	10	--
4.	Fisheries Resources and Management	--	--	02	--
5.	Industrial Fishery Technology	06	--	--	--
6.	Fisheries Environment & Ecology	11	--	02	--
7.	Fisheries Resources And Management	02	--	01	-



## 2) Gold Medalists (College wise)

Sl.No.	ID.No.	Name	Degree Programme	OGPA	Medals/Awards
1.	MDK 509	Pradeep. J. A.	M.Tech (Dairy Microbiology)	9.18	Gold Medalist

## 3) Scholarships

### A) Veterinary College, Bangalore

#### Jr. M.V.Sc.

Sl. No.	Name of the Scholarship	Name of the Student	I.D. No.	Year
1.	Fee Concession	SHAMBHULINGAPPA. Y. BADDI	MVHK702	2007-08
2.		NANDINI M S	MVHK705	2007-08
3.		LOHITH T S	MVHK708	2007-08
4.		VINAYKUMAR Y L	MVHK724	2007-08
5.		KRISHANAPPA BALAGANUR	MVHK734	2007-08
6.		NAGESH A M	MVHK737	2007-08
7.		DILIP S M	MVHK707	2007-08
8.		USHARANI J.	MVHK723	2007-08
9.		CHEZHANKUMAR G K	MVHK725	2007-08
10.		MAHENDRA H N	MVHK728	2007-08
11.		SUDARSHAN S	MVHK747	2007-08
12.		SUNIL KUMAR PATIL	MVHK703	2007-08
13.		MALLIKARJUNA G	MVHK714	2007-08
14.		RAJU METRI	MVHK719	2007-08
15.		SHASHIDHARA M P	MVHK740	2007-08
16.		PRAKASH MIRJI	MVHK750	2007-08
1.	Category I	CHANDRASHEKHARA N	MVHK720	2007-08
2.		SHARAT RAJ	MVHK736	2007-08
3.		JPRAMOD Y TALAWAR	MVHK742	2007-08

#### Sr. M.V.Sc.

1.	Fee Concession	SHAHID VASEEM S A	MVHK631	2007-08
2.	Category I	KAVITHA G	MVHK607	2007-08

#### I Year Ph.D.

1.	Fee Concession	H S MADHUSUDHAN	DVHK705	2007-08
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#### III Year Ph.D.

1.	Fee Concession	SUMA N	DVHK512	2007-08
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#### Jr. M.V.Sc.

1.	Merit Scholarship	Chetankumar G K	MVHK725	2007-08
2.		Harish D B	MVHK748	2007-08
3.		Hemannagowda K	MVHK704	2007-08
4.		Nagesh A M	MVHK737	2007-08
5.		Vinaykumar Y I	MVHK724	2007-08
6.		Sunil Kumar Patil	MVHK703	2007-08
7.		Dilip SM	MVHK707	2007-08
8.		Srikanth M	MVHK716	2007-08
9.		Pradeep P S	MVHK718	2007-08
10.		Krishanapa Balaganur	MVHK734	2007-08
11.		Sudarshan S	MVHK747	2007-08
12.		Vinod Kumar G	MVHK744	2007-08

**Sr. M.V.Sc.**

1.	Merit Scholarship	MANJUNATH K P	MVHK612	2007-08
2.		PAVAN KUMAR K N	MVHK617	2007-08
3.		SARITHA N S	MVHK627	2007-08
4.		RASHMI K M	MVHK623	2007-08

**I Year Ph.D.**

1.	Merit Scholarship	MOHAN K	DVHK702	2007-08
2.		H S MADHUSUDHAN	DVHK705	2007-08

**II Year Ph.D.**

1.	Merit Scholarship	SHANKAR B P	DVHK610	2007-08
2.		M C SHIVAKUMAR	DVHK611	2007-08
3.		MAHESH V	DVHK604	2007-08
4.		NIRMALA G C	DVHK607	2007-08

**III Year Ph.D.**

1.	Merit Scholarship	SUMA N	DVHK512	2007-08
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**B) Veterinary College, Bidar**

**Post Graduate KVAFSU MERIT SCHOLARSHIP**

**Jr. MV.Sc.**

Sl. No.	I.D. No.	Name of the Student	Department	Qualifying Exam Marks / OGPA / CGPA
1	MVNK-702	Vinay, S.	Veterinary Microbiology	8.16 / 10.00

**Sr. MV.Sc.**

1	MVNK-602	Chaitra, B.S.	Veterinary Microbiology	8.69 / 10.00
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**C) Dairy Science College, Bangalore**

Sl. No.	Name of the Scholarship	Name of the Student	I.D. No.	Year
1.	Merit Scholarship	Mahadevaiah	DDK 701	2007-08
2.		Praveen. A. R.	MDK 708	2007-08
3.		Prathima. B. K.	MDK 701	2007-08
4.		Chandrakala. C. S.	MDK 704	2007-08
5.		Srinivasa	MDK 611	2007-08
6.		Shilpa. K.	MDK 608	2007-08

**D) College of Fisheries, Mangalore**

**Jr. M.F.Sc.**

Sl. No.	Name of the Scholarship	Name of the Student	I.D. No.	Year
1.	Merit Scholarships	Deekshit Fishery Microbiology	MFK 705	2007-08
2.		Divya Kumari, H.V. Aquaculture	MFK 701	2007-08
3.		Sathish, M. Industrial Fishery Technology	MFK 709	2007-08



**Sr. M.F.Sc.**

Sl. No.	Name of the Scholarship	Name of the Student	I.D. No.	Year
1.	<b>Merit Scholarships</b>	Ahiman Aquaculture	MFK 601	2007-08
2.		Praveen Rai Fishery Microbiology	MFK 610	2007-08
3.		Nagesh, M. Fisheries Resources & Management	MFK 607	2007-08
4.		Rajanna, J. Fisheries Environment And Ecology	MFK 611	2007-08

**4) Thesis Accepted**

**I) Faculty of Veterinary Sciences, Veterinary College, Bidar**

Sl. No.	Thesis Title	Student Name	Degree	Major Advisor and Dept.	Date
1.	Therapeutic efficacy of poly herbal uterine tonic and echbolic in post partum cows	Shiraj Ahamad D. Awati	Master	Dr. S.S. Honnappagol Animal Reproduction Gynaecology & Obstetrics	April 07
2.	Immunological evaluation of immunomodulatory effect of interferon gamma (IFN- $\gamma$ ) in chicken vaccinated against Newcastle Disease Virus	Basavaraj S. Binajavadgi	Master	Dr. Y. Hari Babu Vety. Microbiology	April 07
3.	Isolation & characterization of heat shock proteins from tumor cell line	Harsha G.V.	Master	Dr. Y. Hari Babu Vety. Microbiology	June 07
4.	Isolation, purification and characterization of Fimbrial extracts from enterotoxigenic <i>E.Coli</i> of calves	Shekhar H.T.	Master	Dr. Y. Hari Babu Vet. Microbiology	Jan. 08
5.	Isolation and Characterization of Mycoplasma from Poultry with Chronic Respiratory Disease	Mallinath K.C.	Master	Dr. Y. Hari Babu Vet. Microbiology	Feb. 08

**II) Faculty of Veterinary Science, Veterinary College, Bangalore.**

Sl. No.	Thesis Title	Student Name	Degree	Major Advisor and Dept.	Date
1.	Studies on spinal plating with and without laminectomy for traumatic posterior paralysis in dogs	B.N. Nagaraja	Ph.D.	Dr. M.S. Vasanth Vety. Surgery	Oct. 07

2.	Studies on laryngoplasty and ventriculectomy for laryngeal hemiplegia in Race horses	C. Yeshtwant(kumar	Master	Dr. M.S. Vasanth Vety. Surgery	Oct. 07
3.	Comparison of type Ia and Ib external skeletal fixation for tibial fracture repair in dogs	P.G. Dilip	Master	Dr. L. Ranganath Vety. Surgery	Oct. 07
4.	Epidemiological haematological and Biochemical studies on colic in thoroughbred race horse.	Yogesh Bhosale D.	Master	Dr. H.A. Upendra Vety. Medicine	Mar. 08
5.	Isolation of androgen dependent epididymal proteins	Gurunathgouda Patil	Master	Dr. V. Girish Kumar Vety. Physiology	Jan. 08
6.	Biochemical and physiological effects of prebiotics and probiotics in broiler chickens	Hanamanta Nyamagonda	Master	Dr. M. Narayana Swamy Vety. Physiology	Mar. 08
7.	Comparative studies on seminal characteristics of Giriraja and White Plymouth rock roosters	Narayana Bankara	Master	Dr. V. Chandrashekar Gynaecology & Obstetrics	Jan. 08
8.	Studies on certain in vitro-evaluation tests on and frozen semen of Jersey Bulls	Sharnabasav	Master	Dr. M. Devaraj Animal Reproduction, Gynaecology & Obstetrics	Jan.08
9.	Studies on interactive effects of ochratoxicosis and coccidiosis and evaluation of herbal anticoccidial efficacy in broiler chickens	Ravikumar Hukkeri	Master	Dr. H.D. Narayanaswamy Vety. Pathology	Feb. 08
10.	Pathology of ochratoxicosis and its amelioration with toxin binder and herbal oil in broiler chickens	Anitha N.	Master	Dr. H.D. Narayanaswamy Vety. Pathology	Feb. 08
11.	Experimental pathology of T-2 toxicosis in broiler chicken and its amelioration using toxin binder and herbal oil	Jyothilakshmi	Master	Dr. M.L. Satyanarayana Vety. Pathology	Mar. 08
12.	Pathobiological studies of <i>Vibrio alginolyticus</i> biofilm cells on the defense function and disease resistance in giant Tiger Shrimp ( <i>Penaeus monodon</i> )	S.R. Krupesh Sharma	Ph.D.	Dr. M.L. Satyanarayana Vety. Pathology	Mar. 08
13.	Studies on proliferation And AgNOR indices in cutaneous and	Dayananda T.S.	Master	Dr. Suguna Rao Vety. Pathology	April 07

	subcutaneous neoplasms of dogs				
14.	Antidiabetic and toxicological studies of <i>Murraya koenigii</i>	Prasad S.	Ph.D.	Dr. K. Jayakumar July 07 Vety. Pharmacology	
15.	Pharmacological induction of lactation in repeat breeders	Mohan K.	Master	Dr. N.B. Sridhar Vety. Pharmacology	Oct. 07
16.	Pharmacological and toxicological studies of <i>Asteracantha longifolia</i>	Indu Tripathi	Master	Dr. N.B. Sridhar Vety. Pharmacology	Oct. 07
17.	Pharmacological and Toxicological activities of cattle urine	Jagadeesh	Ph.D.	Dr. K. Jayakumar Oct. 07 Vety. Pharmacology	
18.	Toxicity studies of ficus amplissima in rabbits and rats	Lokesh L.V	Master	Dr. K. Jayakumar Nov. 07 Vety. Pharmacology	
19.	Study of antidiabetic property of cow urine in rats	Vadivelan N.	Master	Dr. K. Jayakumar Nov. 07 Vety. Pharmacology	
20.	Toxicity studies of fungal isolates from groundnut hay in rats and mice	Vinay P. Tikare	Master	Dr. N.B. Shridhar Dec. 07 Vety. Pharmacology	
21.	Observation on resistance of common gastrointestinal Nematode parasites of cattle to anthelmintics	Sudha Rani R.	Master	Dr. C. Renukprasad Vety. Parasitology	Nov. 07
22.	Epidemiological and immunological studies with special reference to diagnosis of trypanosome evansi infection in bovines	P. Malakonclaiath	Ph.D.	Dr. Placid E. D'Souza Vety. Parasitology	Dec. 07
23.	Study on Cryptosporidiosis in Bovines	H.K.M. Rekha	Master	Dr. Placid E D'Souza Vety. Parasitology	Dec. 07
24.	Studies on Echinococcus Granulosus in Dogs with Special Reference to Immunological and Molecular Diagnosis	K.J. Anand	Ph.D.	Dr. Placid E D'Souza Vety. Parasitology	Jan. 08
25.	Standardisation of indirect elisa for seroprevalence of canine leptospirosis	Dharnesh C.D.	Master	Dr. B.M. Veeregowda Vety. Microbiology	Oct. 07
26.	Application of Enolase-Foot and Mouth Disease Viral antigen fusion protein as mucosal vaccine	Srinivasu C.	Master	Dr. M. Satyanarayana Rao Vety. Microbiology	Dec. 07
27.	Evaluation of bacterial contamination and detection of specific food borne bacterial pathogens by cultural and PCR based techniques in chicken meat	Suresh Babu T.	Master	Dr. B.M. Veeregowda Vety. Microbiology	Feb. 08

28.	Genetic characterization of highly pathogenic avian influenza (HPAI) virus subtype H5N1 isolated from India	Maheswarappa G.	Master	Dr. S.M. Byregowda Vety. Microbiology	Feb. 08
29.	Molecular characterization of <i>E.coli</i> from bovine Mastitis	Vivek Prabhu B.	Master	Dr. Shrikrishna Isloor Vety. Microbiology	Mar. 08

### III) Faculty of Animal Science, Veterinary College, Bangalore

Sl. No.	Thesis Title	Student Name	Degree	Major Advisor and Dept.	Date
1.	Economics of contract farming in broilers a study in Karnataka	Chidananda B.L.	Ph.D.	Dr. K.S. Prathapkumar Poultry Sci.	Nov. 07
2.	Evaluation of nutritive value of finger millet and sorghum replacing yellow maize vis-à-vis in presence of oil and enzymes in broiler diets	Jayanaik	Ph.D.	Dr. B. Umakanth Poultry Sci.	Nov. 07
3.	Nutritional up-gradation of rice straw through rumen fermentation manipulation	Mrs. Deepa Ananth	Ph.D.	Dr. R.G. Glori Doss Animal Nutrition	July 07
4.	Validation of energy recommendation for maintenance in German Shepherd and Labrador Retriever breeds of dog in Bangalore	H.S. Madhusudhan	Master	Dr. K. C. Singh Animal Nutrition	Oct. 07
5.	Effect of detoxified castor ( <i>Ricinus communis</i> ) bean meal as a protein supplement on the performance of broilers	D. Aniket Arun	Master	Dr. B.S.V. Reddy Animal Nutrition	Nov. 07
6.	Evaluation of sugarcane press residue (SPR) interms of its melabolizable energy and other nutrients in broilers and layers	Suresh B.N.	Ph.D.	Dr. B.S.V. Reddy Animal Nutrition	Dec. 07
7.	Rumen Feed Evaluation for Fermentation Characteristics and Microbial Biomass Synthesis	Thirumalesh	Ph.D.	Dr. U. Krishnamurthy Animal Nutrition	Jan. 08
8.	An observation of dietary status of certain minerals on egg production under field condition.	Srikanth D.Kalburgi	Master	Dr. B.S.V. Reddy Animal Nutrition	Jan. 08



9.	Molecular genetic analysis of different strains of chicken	Rashmi S.	Master	Dr. C.S. Nagaraja Animal Genetic & Breeding	Dec. 07
10.	Effect of compound feeds differing in microbial biomass synthesis efficiency on dry matter intake, digestibility of nutrients, nitrogen balance and production performance of lactating cows	Sudha S.K.	Master	Dr. R. Bhaskaran Livestock Production & Management.	Oct. 07
11.	Enriching the nutritional value of agro-industrial by-products by enzyme supplementation in Poultry	Ravikumar D.	Ph.D.	Dr. G. Devegowda Livestock production and Management	Oct. 07

#### V) Faculty of Dairy Sciences, Dairy Science College, Bangalore

Sl. No.	Thesis Title	Student Name	Degree	Major Advisor and Dept.	Date
1.	Effect of concentration of milk on physico-chemical and sensory characteristics of Burfi	Prabhushankara B.R.	Master	Dr. H.G. R. Rao Dairy Technology	April 07
2.	Studies on preservation of pannier by Hurdle technology	Thippeswamy L.	Master	Dr. B.V. Venkateshaiah Dairy Technology	Oct. 07
3.	Development of ready to reconstitute whey fruit juice based beverage	Shashidhar S.	Master	Dr. H.M. Jayaprakash Dairy Technology	Oct. 07
4.	Formulation of ready-to-use whey protein and probiotic beverage	Kalyan Kumar S.	Master	Dr. H.M. Jayaprakash Dairy Technology	Oct. 07
5.	Production of Dietetic Kulfi	Apurba Gin	Master	Dr. H.G.R. Rao Dairy Technology	Dec. 07
6.	Development of Technology for manufacture, packaging & preservation of Kunda	L. Mahalingaiah	Ph.D.	Dr. B.V. Venkateshaiah Dairy Technology	Mar. 08
7.	Characterization of Exopolysaccharides produced by selective lactic acid bacteria	Pradeep J.A.	Master	Dr. R. Krishna Dairy Microbiology	Nov. 07
8.	Utilization of whey protein and drumstick ( <i>Moringa oleifera</i> ) kernel powder gels in kulfi & yoghurt	Lavanyavathi S.V.	Master	Dr. P.K. Keshavaprasad Dairy Chemistry	Jan. 08
9.	Isolation & characterization of bioactive peptides from cow and buffalo Milk casein fractions	Boomika I.L.	Master	Dr. G.S. Bhat Dairy Chemistry	Jan. 08

10.	Studies on the gelation characteristics of soy protein isolate with WPC and its utilization in preparation of Kulfi and Yoghurt	Anil Kumar S.N.	Master	Mr. C. Kempanna Dairy Chemistry	Jan. 08
11.	Characterization Caseinophosphopeptides (CPPs) obtained from different casein fractions fermented with lactic Cultures	Kusuma	Master Dairy Chemistry	Mrs. Jayashri P. Hiremath	Mar. 08

V) Faculty of Fishery Sciences, College of Fisheries, Mangalore

Sl. No.	Thesis Title	Student Name	Degree	Major Advisor and Dept.	Date
1.	Effect of brewers yeast on growth, survival and immune response in <i>Labeo rohita</i>	Amir Mohseni	Master	Dr. Shivananda Murthy, H. Aquaculture	Oct. 07
2.	Efficacy of immunostimulation and probiotic in enhancing disease resistance against white muscle disease of giant freshwater prawn, <i>Macrobrachium Rosenbergii</i> (De man)	Prakash Pavadi	Ph.D.	Dr. Shivanand Murthy, H Aquaculture	Dec. 07
3.	Effect of aromatase inhibitor on gonadal development in <i>Oreochromis mossambicus</i> (Peters)	Rahul Das	Master	Dr. N. Basavaraja Aquaculture	Jan. 08
4.	Effect of varying levels of biogut on growth performance of <i>Tor Khudre</i> (Sykes) and <i>Cyprinus carpio</i> (Linn.) Fingerlings	Pradeep L.Doddamar	Master	Dr. N. Basavaraja Aquaculture	Jan. 08
5.	Human enteric viruses associated with molluscan shellfish in coastal waters	Umesh K.R.	Master	Dr. M.N. Venugopal Fishery Microbiology	2007
6.	Genetic markers for the study of some marine micro algae	V. Saravanan	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology	May 07
7.	Salmonella in aquatic environment and its significance	Kavitha R.K.	Master	Dr. Indrani Karunasagar Fishery Microbiology	June 07
8.	Quantification of human pathogenic vibrios in seafood using molecular techniques	Sadanand Acharya B.	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology	Sept. 07



9.	Isolation of salmonella bacteriophages from natural environment	Ajit Kumar	Master	Dr. Indrani Karunasagar Fishery Microbiology	Oct. 07
10.	Cloning & expression of defense protein of <i>Macrobrachium rosenbergii</i>	Naveen Kumar	Master	Dr. Indrani Karunasagar Fishery Microbiology	Oct. 07
11.	Protein profile of salmonella biofilm	Mallesh	Master	Dr. Indrani Karunasagar Fishery Microbiology	Oct. 07
12.	Molecular studies on a novel defense protein of <i>Macrobrachium rosenbergii</i>	Grihaneshwar Y. V.	Master	Dr. Indrani Karunasagar Fishery Microbiology	Oct. 07
13.	Expression of white spot syndrome viral coat proteins and study of their immunogenic potential	Girisha S.K.	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology	Nov. 07
14.	Emerging diseases of cultured crustaceans in India	Prakash B.K.	Ph.D.	Dr. Indrani Karunasagar Fishery Microbiology	Jan. 08
15.	Studies on some aspects of the biology of <i>Cociella crocodile</i> (Tilley, 1812) off Mangalore coast	Mahesh Murthy A.S.	Master	Dr. S. Benakappa Fishery Resources & Management	Nov. 07
16.	some aspects of the biology of <i>Paraplagusia bilineata</i> (Bloch, 1784) with a note on the fishery of flatfishes from Mangalore coast	Sathis N.	Master	Dr. S. Benakappa Fishery Resources & Management	Nov. 07
17.	Validation & comparison of species in notified Potential Fishing Zone (PFZ) and non-notified areas off Mangalore	Shilpa K.	Master	K.V.R. Krishnan Fishery Resources & Management	Nov. 07
18.	Studies on the fishery, biology & population dynamics of <i>Priacanthus hamur</i> (Forsskal) off Mangalore coast	H.N. Anjanayappa	Ph.D.	Dr. S. Benakappa Fishery Resources & Management	Dec. 07
19.	Plankton dynamics of coastal waters of Mangalore & development of database using Geographical Information System (GIS)	Raveesha K.P.	Ph.D.	Dr. S. Benakappa Fishery Resources & Management	Dec. 07
20.	Macrobenthos of coastal waters of Mangalore in relation to the sediment characteristics	Mrs. Madhu Kumeri	Masters	Prof. R.J. Katti Fisheries Environment & Ecology	Sept. 07
21.	Studies on meiobenthos in relation to selected sediment characteristics in Gurupur Estuary, Mangalore	Ayyan Kumar V.	Master	Dr. G. Gowda Fisheries Environment & Ecology	Nov. 07



### C) Library Information

#### A) Veterinary College, Bangalore

- a) Membership usage : 388
- b) Acquisition of books
  - i. Technical : 1082
  - ii. Periodicals : 29
- c) Reprography : Is available
- d) Clipping services etc : Is available
- e) Data base Services : Vet. CD, FSTA-CD

#### B) Veterinary College, Bidar

- a) Membership usage : 160
- b) Acquisition of books : 444 worth of Rs 5.58 lakhs.
- c) Reprography : Rs.1843 & providing photocopies to office also.

#### C) Veterinary College, Shimoga

- a) Membership usage : 34 student members
- b) Acquisition of books
  - i) Technical : 764 books procured
  - ii) Periodicals : Journal-one
  - Others : Three
- c) Reprography : Is arranged
- d) Clipping services etc.,

#### D) Veterinary College, Hassan

- a) Membership usage : 30 visits per day
- b) Acquisition of Books
  - i. Technical : 474
  - ii. Periodicals : 5
- c) Reprography : One Xerox Machine available
- d) Clippings services : Nil

#### E) Dairy Science College, Bangalore

- a) Membership usage : 388 Nos.
- b) Acquisition of books
  - i) Technical : 1082 Nos.
  - ii) Periodicals : 29 Nos.
- c) Repography : Is available
- d) Clipping Services etc.
- e) Database services : VET-CD, FSTA-CD

#### F) College of Fisheries, Mangalore

- a) Membership usage : 250
- b) Acquisition of books
  - i) Technical : Nil
  - ii) Periodicals : 14
- c) Repography : Regularly done

d) Clipping services etc.: Offered as and when the occasion arises

### D) Student Welfare Activities

#### a) Veterinary College, Bangalore

##### a) Sports and Games :

- 1) Dr. P.T. Ramesh attended sports council meeting on 5.07.2007.
- 2) Department of Physical Education have organized third Inter Collegiate Sports and Athletic meet on 11.11.07 to 13.11.07, Veterinary College team secured second place in the event.
- 3) Veterinary College cricket team had participated in Inter Collegiate cricket tournament held at Bidar on 05.10.2007 and won second prize.
- 4) Department of Physical Education is involved in regular upkeep of various sports ground in Hebbal Campus.
- 5) Department of Physical Education have conducted inter class sports meet on 20.03.2008.

##### b) Youth Festivals etc.

The Intercollegiate Youth festival of KVAFSU was held at the Dairy Science College, Bangalore during September 11<sup>th</sup> to 13<sup>th</sup>, 2007. The students of this College participated in all the events, such as, music, dance, drama, literature and arts. The team won the overall championship trophy.

The Agriunifest-2007, the entire Agricultural University Youth festival was held from September 22<sup>nd</sup> to 26<sup>th</sup>, 2007 at Maharana Prathap University of Agricultural and Technology, Udaipur, Rajasthan in which 32 Universities participated. Prizes were won in literary events like the debate, elocution, clay modeling & folk dance. The award for the Best Disciplined team was declared in the Valedictory function for the KVAFSU team.

c) Other Co-curricular activities The following clubs are functioning in the College to promote Co-curricular activities.

1. Adventure club
2. Literary club
3. Science club
4. Social service club
5. Fine arts club

These clubs have regularly conducted activities and also competitions for College Day, World Veterinary Day and Inter-Collegiate competitions.

- The World Veterinary Day was celebrated on 28<sup>th</sup> April, 2007. In this connection many events were conducted to commemorate the World Veterinary Day. The events at the Veterinary College, Bangalore included free Anti-Rabies vaccination and deworming for dogs on 28<sup>th</sup> & 29<sup>th</sup> April, 2007; free Animal birth control operation for dogs from 30<sup>th</sup> April to 5<sup>th</sup> May, 2007; free artificial insemination for cattle and pregnancy diagnosis in cattle and dogs from 30<sup>th</sup> April to 5<sup>th</sup> May, 2007 and Pet Animal Nutrition Counselling. The events at the Veterinary College Hospital, Yelahanka included free Foot and Mouth Disease vaccination from 23<sup>rd</sup> to 28<sup>th</sup> April, 2007 for cattle and Anti rabies vaccination on 28<sup>th</sup> & 29<sup>th</sup> April, 2007.
- Free distribution of rabbits and training in rabbit rearing to women farmers was organized at Byravesiwaranagar, Nelamangala taluk on 26<sup>th</sup> April, 2007.
- Training in rabbit rearing to women farmers was conducted at four villages of Bagepalli taluk, Kolar district on 27<sup>th</sup> April, 2007.
- Three undergraduate students of the college actively participated and won the prizes in competition of "Nage Sakath Savaal" programme telecast in Udaya TV during June, 2007.
- Wild Life Week was celebrated from 1<sup>st</sup> to 7<sup>th</sup> October, 2007. In order to encourage the students, painting & essay competitions were held.
- Fresher's Day "Hrunmana", was organized to welcome the newly admitted 1 year BVSc & AH students to the college on 6<sup>th</sup> November, 2007. On the occasion, Dr. Suresh Sharma, the Chairman, Vesper Group of Companies, Film star & an alumnus of Veterinary College, Bangalore was the chief guest and Dr. M. Devaraj, Registrar, KVAFSU, Bidar & Mr. Nagabhushan, Manager, HR, Wipro Infrastructure Engineering Ltd., Bangalore were the guests of Honour. Dr. S. Yathiraj, Dean Veterinary College, Bangalore presided over the function. The third BVSc and AH students were involved in organizing the function.
- Annual College Day was celebrated on 28<sup>th</sup> March, 2008 during which College magazine, "Swarnajali 2007-08" was released. The chief guest of the function was Prof. E. Radhakrishna, Principal, Surana College, Bangalore & the Guest of Honour was Dr. Janaki Sundaresh, a creative writer & an alumnus of Veterinary College, Bangalore. The function was presided by the Dean, Dr. S. Yathiraj.

#### d) NSS activities :

Veterinary College, Hebbal has two NSS Units, each comprising of hundred volunteers and through these units two ten day workshops (10 days) on 2.05.07 to 11.05.07 and 17.04.08 to 25.04.08 were conducted at SLBTC, Hessarghatta and Narasipura, Nelamangala taluk.

The Focus of the Workshops were as follows:

1. Future of Veterinary Practice
2. Global warming
3. Veterinary Literature
4. fodder preservation
5. Literacy campaign
6. Environmental pollution

#### E) Hostel Activities:

Boys Hostel (Kamadhenu) Total No. of residents 270.

Hostel Day was celebrated on 2-05-2007. The guests of honour were Guru Kiran Noted Cine Music Director, Master Hirannaiah, Actor, Mr. Cheluvarayaswamy, Transport Minister, Govt. of Karnataka. The Hon'ble Vice-Chancellor, KVAFSU Prof. R.N.S. Gowda and the Registrar, S.S. Honnappagol were also present.

Ladies Hostel (Kalpavruksha) - Total No. of residents (Vety.) 41

#### B) Veterinary College, Bidar

- a. Sports and games : Mr. Yeshwanthkumar (teacher in charge)
- b. Youth festivals etc : Dr. Vivek Kasaralikar (teacher in charge)
- c. Other Co curricular activities :
- d. NSS Activities : Dr. Dilipkumar & Mr. Kartikesh (teacher in charge)
- e. Hostel Activities : Chief Warden.
  1. Conducted various sports and cultural competitions during Hostel Day Celebration on November 14, 2007.
  2. Conducted Cultural Programmes on November 14<sup>th</sup> on the occasion of Hostel Day Celebration.
  3. Celebrated Ganesh Festival during September 2007.
  4. Modern kitchen utensils are installed in the Hostel Mess.

#### 1. Youth Festival :

1. The College team participated in Inter Collegiate Youth Festival of KVAFSU held at Dairy Science College, Bangalore between 11-13 Sept., 2007. The team participated in all the events of Inter Collegiate Youth Festival and bagget over all 3<sup>rd</sup> position among seven participating College of KVAFSU, Dr. Vivek R. Kasaralikar and Mrs. Malathi. V. accompanied the



team as team managers.

2. Student Association, Veterinary College, Bidar contributed Rs. 1275-00 to the National Foundation for communal Harmony (NFCH), New Delhi.
3. Student Association also participated in the following
  - Celebration of 'World Veterinary Day 2007' on 28.04.2007.
  - Organised Blood Donation Camp on 13.11.2007 in Commemoration of 23<sup>rd</sup> College foundation Day.
  - Celebrated 23<sup>rd</sup> College Foundation Day on 14.11.2007.
  - Teachers Day was celebrated on 05-09-2007.
  - Participation in Ambedkar Jayanthi and Basava Jayanthi.
4. Organized Spiritual talk from Prajapita Bramakumari Vishwavidyalaya and Ramakrishna Vivekanand Ashram Bidar.

## 2. N.S.S. Activities :

### Regular activities :

1. Campus cleaning was done regularly
2. World Environment Day was celebrated Prof. Kamath arrived as guest for the function.
3. Vanmahotsava was celebrated by planting 400 trees near to University Building.
4. Gandhi Jayanthi was celebrated.
5. 10 days special Annual Camp was conducted at Anadur wadi Village.

## C) Veterinary College, Shimoga

### a) Sports and Games

I. Inter-class matches (all the matches conducted between 07.02.2008 to 27.02.2008)

1. Cricket : Winners I B.V.Sc. Students  
: Runners II B.V.Sc. Students
2. Chess (Boys) : Winner - Sunil M.G, II B.V.Sc.  
: Runner Gish Jaday, I B.V.Sc.
3. Carrom (Girls) : Winner-Shanaz Mohmool B.V.Sc.  
: Runner Saroja I B.V.Sc.
4. Carrom (Boys) : Winner Rohit Hegde II B.V.Sc.  
: Runner Prashanth Talwar, II B.V.Sc.
5. Quiz : 1. Kartik Y A + Nagarj K.H, II B.V.Sc.  
2. Rakesha K + Chethan MP, II B.V.Sc.  
3. Prashanth Kumar K.S +

Ramesha K, II B.V.Sc.

6. Chess : Winner Sunil M.G, II B.V.Sc.  
: Runner Gish Jaday, I B.V.Sc.

II. The college team participated in the inter campus sports and games meet held at Veterinary College, Bangalore on 27<sup>th</sup> to 29<sup>th</sup> November, 2007.

### Medal Winners in Inter Collegiate Sports Meet

1. Nagaraj K H, II B.V.Sc (200mtr-2<sup>nd</sup>, T.J., -2<sup>nd</sup>)
2. Anitha M, II B.V.Sc. (200 mtr.-2<sup>nd</sup>)
3. Shruthi S.K, I B.V.Sc. (800 mtr 2<sup>nd</sup>)

III. The college team participated in the cricket tournament held at Veterinary College, Bidar on 5<sup>th</sup> to 9<sup>th</sup> October 2007.

### IV. University Representation :

Nagaraj K.H., II B.V.Sc. & A.H. Was represented the KVAFSU, Bidar university athletic team in the all India Inter-Agricultural sports and games meet held at MPKV, Rahuri, Maharashtra.

V. Staff Tournament (matches conducted on 23<sup>rd</sup> and 24<sup>th</sup> of January 2008)

1. Chess : Winner- Dr. Vijayakumar Shettar, Asst. Prof., Runner Mr. Eshwara, K.A, Phy. Edu.
2. Carrom : Winner Mr. Manjunath + Mr. Eshwara, K.A, Runner Mr. Ragavendra R + Mr. Sangameshwar

### b) Youth Festivals etc.,

- I. Inter-collegiate competitions
- II. The college team participated in the youth festival competition held at Dairy Science College, Hebbal, Bangalore on 11<sup>th</sup> to 13<sup>th</sup> September 2007 and secured some prizes.

### Prize Winners in the Youth Festival -

1. Swethashri M.J, II B.V.Sc.  
(Elocution Kannada, Clay Modeling 2<sup>nd</sup>)
2. Revanasidappa, I. B.V.Sc.  
(Debate Kannada, Debate English, Extempore-2<sup>nd</sup>)
3. Karthik Y.A, II B.V.Sc. (Light Vocal 3<sup>rd</sup>)

**c) Other Co-Curricular Activities**

Visit to following places have been organized as per the details given below:

Sl. No.	Date of Visit	Place of Visit	Year / Batch	Number of students	Professor Name
1.	07.04.2007	Durga Dairy Farm, Honnavile, Shimoga.	2007-08	27	Dr. Chidanandaiah
2.	25.04.2007	Shree Ram Chandra Pura Matt, Hania post, Hosnagar Tq & Shimoga Dist.	2007-08	27	Dr. Chidanandaiah
3.	02.09.2007	Local farms & Goushalas in & around Sagar & Hosanagar & Shree Ram Chandra Pura Matt, Hania post, Hosnagar Tq & Shimoga Dist.	2007-08	35	Dr. Chidanandaiah
4.	03.11.2007	Shree Ram Chandra Pura Matt, Hania post, Hosnagar Tq & Shimoga Dist.	2007-08	35	Dr. Chidanandaiah
5.	19.08.2007 to 23.08.2007	Visited College Library & LPM Dept. Veterinary College, Bangalore in connection with collecting teaching materials for the courses LPM-111, General Livestock Management, & LPM-112, Fodder Production & Grassland Management			Dr. Chidanandaiah

**d) NSS Activates:**

Dr. Manjunatha, L was appointed as Programme Officer for National Service Scheme of the College. The details of the NSS activities are given below

**Regular Activities**

Regular activities for the year 2007-08 concentrated on cleaning of the campus. In addition, the various books and records and other systems of documentation were established. Few instruments like crow bar and basin have been purchased. A name board of the NSS Scheme has been prepared.

**Annual Special Camp**

The ten days NSS Annual Special camp was successfully organized at Sidlipura Village of Shimoga Taluk between 17<sup>th</sup> and 26<sup>th</sup> March, 2008. The programme focused on shaping the volunteers in the field by exposing them to various facets of village life. They were involved shramdahan, data collection, etc. In the evening interactions with experts were chalked out in such a manner that the

students get the insights into the various developmental perspectives and likewise the people are exposed to the same. A brief description is given in the table below.

01	Inauguration of the Camp
02	Water harvesting & use of renewal energy resources
03	Profitable agriculture
04	Role of youth in Nation building
05	Village sanitation and hygiene
06	Health camp
07	Organic farming & Backyard poultry
08	Livestock breeding & diseases control First Aid
09	Role of women in rural economy
10	Animal health camp
11	Profitable dairy farming

**National Integration Camp**

Two NSS Volunteers namely, Sri. Yatish Kumar (VSK 626) and Ramesha, K.(VSK 616) participated in the National Integration Camp held at Sharavathi First Grade College, Konandur between 21<sup>st</sup> and 27<sup>th</sup> February, 2008.



### e) Hostel Activities

- The HMC meeting is conducted regularly in the last week of every calendar month.
- The HSC meeting is convened regularly in the first week of each calendar month.
- The hostel accounts were audited for the financial years 2006-07 and 2007-08. The auditing charges towards 2006-07 were paid from the Hostel development fund.
- An steel almerah, Two s-type chairs, Printer, Gas stove with thava plate, Steel rack and Reading room table were purchased for hostel from college fund for the financial year 2007-08.

### D) Veterinary College, Hassan Sports & Games

1. The college team participated in the Inter Collegiate sports and games meet held at Veterinary College, Bangalore on 27<sup>th</sup> to 29<sup>th</sup> November, 2007. The events included were Athletics, Volley Ball, TT and Badminton.
2. Mr. Raghu Naik I B.V.Sc & A.H won the second prize in 800 mtrs
3. University Representation
  - i) Varalaksmi I B.V.Sc & A.H. has represented the KVAFSU, Bidar, in Volley ball and Table Tennis team during the all India Inter-Agricultural sports and games meet held at MPKV, Rahuri, Maharashtra.
  - ii) Veena I B.V.Sc & A.H. was represented the KVAFSU, Bidar in Volley Ball team during the all India Inter-Agricultural sports and games meet held at MPKV, Rahuri, Maharashtra.

### b) Youth Festivals

The college team participated in the youth festival competition held at Dairy Science College, Hebbal, Bangalore on 11<sup>th</sup> to 13<sup>th</sup> September 2007 and secured following prizes .

- i. Varalaksmi I B.V.Sc & A.H : Painting - Second
- ii. Puneeth .H J & Mirza Vasim I B.V.Sc & A.H : Quiz- Third

### c) Other Co-Curricular activities

#### d) NSS Activitie

Students actively involved in preparation of volleyball, cricket and foot ball grounds at in the Sericulture Training Institute.

#### e) Hostel Activities

1. General body meeting of the boys hostel was held on 18.10.2007.
2. General body meeting of the Girls hostel was held on 23.10.2007

#### 3. HMC constituted with following members

- General Secretary : Mirza vaseem HVK 711  
 Joint Secretary : Abhilash MRHVK 701  
 Mess Secretary : Sunil kumar KN HVK724  
 Sports Secretary : Dhananjaya CN HVK707  
 Member : Shivakumar PN HVK 720  
 Representative (girls) Varalakshmi A, HVK 725

4. HMC meetings were conducted during last week of every month to review monthly mess bills, balance sheets and appointment of prefects for the next month.

### E) Dairy Science College, Bangalore

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

**Sports & Games :** About 30 B. Tech. (D. Tech.) students of Dairy Science College participated in the Inter-Collegiate Sports and Games Meet 2007-08 at Bangalore(27-29 Nov. 2007).

- Various inter class sports and cultural activities were conducted for the College Day celebration.
- Mr. Kishore Kumar, V. I.D. No.DK 511, Dairy Science College represented the University Kabaddi team and participated in the 9<sup>th</sup> All India Inter Agricultural University Sports and Games Meet 2007-08 held at MPKV Rahuri Dist., Ahmednagar (Maharashtra State).

### Youth Festival

- 'Brundavana-2007 Youth Festival' was organized in a befitting manner from 11-13<sup>th</sup> September, 2007 by the Dairy Science College.

The following is the list of prize winners from the College :

1. Light Vocal : I prize : V. N. Najunda Gowda  
 Patriotic Song : II Prize : V. N. Najunda Gowda, Devaraju, R., Naveen Kumar, A. C., Malashree, L., Spoorthy, G. S., Greeshmaraj
- One Act play : II prize-Raghavendra, M.V., Raghavendra, G.H., Sweetey, P. J., Aruna, K., Muniraju, R., V. N. Najunda Gowda, Greeshmaraj, Devaraju, R., Chetan Kumar, A., Spoorthy, G. S.
2. Cartooning, : I prize: Jagadish Nayak and Poster making on the spot painting
3. Clay Modeling: III prize: Shiva Prakash
4. Collage : I prize : Raghavendra, G. H.

5. Rangoli : III Prize : Spoorthy, G. S.  
 6. Debate : I Prize: V. N. Nanjunda Gowda  
 Kannada  
 7. Elocution : III Prize: Naveen Kumar, A.C.  
 Kannada  
 10. Folk dance : I prize : Raghavendra, M. V.,  
 Raghavendra, G.HPraveen, S.,  
 Harish, M. R., Naveen Kumar, A. C.,  
 Kumar, B. S.Mallikarjuna, B. M.,  
 Devaraju, R.,Chetan Kumar, A.,  
 Kaushik, D.M.

### Co-curricular Activities

#### College Day Celebrations

- The Dairy Science College, Hebbal, Bangalore celebrated its Annual College Day on 26<sup>th</sup> May, 2007.
- The College magazine 'Rajatha Ranjini' was released on this occasion.
- Dr. Mahesh Joshi, Senior Director, Dooradarshan Kendra, Bangalore, Dr. R.N. Sreenivasa Gowda, Hon'ble Vice Chancellor, KVAFSU and Shri. K.M. Mallikarjuna Prasanna, Superintendent of Police, Sindhudurg, Maharashtra, alumnus of this College was invited as the Chief Guests for the College Day celebrations.
- Various cultural, sports and athletic events were conducted.

#### Freshers Day

- Freshers Day 'Ankura' was organized on 15.10.2007. Sri. A.S. Premnath, Managing Director, Kolar Milk Union, Sri Karee Gowda, Assistant

Commissioner, Ramnagar District, alumnus of this College were invited as the Chief Guests. Dr. B. V. Venkateshaiah, Dean, Dairy Science College presided over the function.

#### JRF Felicitation

- Felicitation was arranged for the students who cleared the ICAR JRF examination on 5.7.2008 and many of the students had performed brilliantly.

#### NSS Activities

- Special NSS Camp was conducted at Iwarakantapura from 28<sup>th</sup> April, 2008 to 6<sup>th</sup> May, 2008. About 40 students participated in the Special NSS Camp.
- Rural Dairy Work Experience (RDWE) programme was organized for IV year B.Tech (D.Tech) students for 10 days from 09/01/2008 to 18/01/2008 at Dodda Tumkur village of Doddaballapur Taluk. Dr. H.M. Jayaprakasha Professor of Dairy Technology and Head, Dairy Engineering served as Co-ordinator for RDWE programme. The programme was inaugurated on 10<sup>th</sup> January, 2008 wherein Mr. M. S. Sunderram, Managing Director, Bangalore Milk Union and Mr. M. Rajanna, Hon'ble Member, Board of Management, KVAFSU were the Chief Guests and was presided over by the Dean, Dairy Science College. The Valedictory function was organized on 17<sup>th</sup> January, 2008. The Chief Guests for the function were the Mr. V.N. Ramakrishna, Director (AH), KMF and Dr. M. Janardhan Reddy, Manager, BAMUL were the Chief Guests and was presided over by Dr. H. M. Jayaprakasha, Co-ordinator, RDWEP & Inplant Training. During the period of this village stay camp, the following programmes were organized for the benefit of farmers.

Date	Activity	No. of Farmers Participated
11-01-2008	A lecture on fodder production	45
12-01-2008	A lecture on Animal Nutrition and Management	40
13-01-2008	Organized Animal Health Camp	30
14-01-2008	Demonstration of milk and milk products preparation. A lecture on Clean milk production and Quality control of milk and milk products	60
16-01-2008	A demonstration on Water harvesting and conservation	20
17-01-2008	Demonstration of value added Ragi based products Preparation & bakery products	50
18-01-2008	Arranged Exhibition and Soil testing programme	80

#### Hostel Activities

- Gauri Ganesh festival was celebrated with great enthusiasm on 15.9.2007.
- A welcome was arranged for the newly admitted students (2007-08) on 20.9.2007.



## II. RESEARCH

### 1. Completed Projects

#### a. Project details

Dept. Involved	Title Sponsoring	Agency	Budget outlay	Year of Commencement	Year of Completion	Principal Investigator and Co- Investigators	Institute
Veterinary Parasitology,	VCH "Cryptosporidiosis in Cattle"	C.A.S., ICAR	-	2006-07	2007-08	Dr. G.C. Puttalakshamma Assistant Professor and Dr. Placid .E. D'Souza Professor & Head	Veterinary College, Hebbal, Bangalore
Veterinary Parasitology, VCH	"Coproantigen detection of Echinococcus Granulosus infection In Dogs"	C.A.S., ICAR	-	2005-06	2007-08	Dr. Placid .E. D'Souza Professor & Head	
LPM	Rumen microbial biomass synthesis and fibre digestion: 1. Feed factors affecting partitioning of fermentable organic matter between microbial biomass and fermentation waste products	Dept. Of Biotechnology, Ministry of Science & Technology, GOI.	42.89 lakhs	Dec. 2003	Nov 30, 2007	U.Krishnamoorthy, Prof. and Head	
CVM	Epidemiological, haematological and biochemical aspects of colic in thorough bred race horses	KVAFSU	Rs.15,000	2006	2008	Principle Investigator H.A.Upendra Co-investigators: Dr.S.Yathiraj, Dr.M.Narayana Bhat, Dr.M.S.Vasanth, Dr.Narayana Swamy	
CVM	Evaluation of Miticides in the management of mite infestation in Dogs and cats	KVAFSU	Rs.10,000	2005	2007	Principle investigator Dr.S.Yathiraj Co-Workers Dr.H.A.Upendra, Dr.Placid D'Souza, Dr. C.Ansar Kamran	
Dept.of Vety.Epid & Prev. Medicine	Studies on the antibiogram pattern of mastitis cases in cattle	UAS, KVAFSU	Rs. 20,000	2004	2007	M. Narayana Bhat	
Pharmacology and Toxicology	Evaluation of toxic potential of Cypermethrin with special reference to testicular toxicity in albino mice	KVAFSU	Rs. 20000/-	2007	2008	Dr.N.Prakash, Dr.U.Sunilchandra, Dr.M.Vijay kumar	
-APM -AN Bio.Che. LPM	Comparative efficacy of herbal choline on growth & performance of broilers	Ayurvet Ltd, Ghaziabad	Rs.42,167	2007	2007	Dr. N. V. Jadhav, Dr. V. Nagbushana, Dr. S. M. Kartikesh, Dr. P. G. Waghmare	
-APM -VMC Bio.Che. VPH	Evaluation of AV/ALP /17 & AV/CSP/14 in improving growth performance & carcass quality in broilers	Ayurvet Ltd, Ghaziabad	Rs.35,000	2008	-	Dr. N. V. Jadhav, Dr. B. Awati, Dr. Amanullah, Dr. Pradeepkumar	

ABGB	Integrated study to evaluate Kenguri breed of sheep for mutton production for sustainable animal enterprise in Hyderabad Karnataka Region	ICAR	Rs. 9.40 lakhs	2005	2007	Dr.M.M.Appannavar Dr. Ashok Pawar Dr. B. Ramchandra Dr. C.B.Madhava Prasad Dr. M.K.Tandle	
Dept. Of VEPM.	Study on Culicoides midges as vectors of bluetongue disease	Karnataka sheep and wool Dev. corpn. Ltd. Bangalore.	Rs. Five lakhs	Jan-2005	June-2007	PI: Dr. K. Ganesh Udupa Co- PIs: Dr.S.Prasanna Kumar, Dr. M. M. Appannavar, Dr. P. M. Thimmareddy, Dr. N. A. Patil	
ARGO	Studies on retention of placenta in nd buffaloes of Bidar dist. Using Bali. Involon	KVAFSU		2006-07		Dr. S.D. Soraware Dr. Suresh S. Honnappagol Dr. M.K. Tandle Dr. R. G. Bijurkar Dr. Mahesh S. Doddamani Dr. R. B. Dhabale Dr. A. Murugeppa	Veterinary College, Bidar
ARGO	Induction of twinning using GnRH or hCG in deccani ewes			2006-07		Dr. M.K. Tandle Dr. Suresh S. Honnappagol Dr. R. G. Bijurkar Dr. Prakash N. Dr. N.V. Jadhav And Dr. G.K. Shivaraman	
Vet. Surgery & Radiology	Studies of Infectious Preseptal orbital cellulites	KVAFSU	Nil	2007	2008	Dr. B. V. Shivaprakash	
AHE, Animal Nutrition & VPH	"An action research for self employment of SC/ST youth through goat rearing under stall feeding on strategy for poverty alleviation & Sustainable development in Hydrabad-Karnataka Region	DBT	16,00,000/-	2006-07	-	Dr. K.C. Veeranna Dr. Nagabhushana, V	Veterinary College, Shimoga
Dept of Fishery Economics	Coastal Conservation Strategies and enterprise development for sustainable livelihood in Karnataka, India	Ford Foundation and Snehakunja Trust	50,000	2006	2008	Dr. Ramachandra Bhatta	College Of Fisheries, Mangalore.
	Estuarine Fish Stock Assessment: An Empirical Application of PARFISH	MRAG, London	1.75 lakh	2006	2007	Dr. Ramachandra Bhatta (Co-PI) Dr. P. Keshavanath (PI)	
Department of Fishery Environment and Ecology	Integrated Coastal Zone Management Plan for Karnataka	MOEF	6,81,500.00			Dr. H.R.V Reddy PI Dr. G.S Dwarakish NITK Dr. Srinikelhan NITK	



Dept. of Fisheries Resources and Management	To develop Resources & Management a scientific approach for in-situ validation and demonstration of Potential Fishing Zone (PFZ) off Mangalore Coast	INCOIS, Hyderabad	Rs. 20 Lakhs	2004	2007	Prof. K.V. Radhakrishnan & Mr. S.R.Somashekar	College of Fisheries, Mangalore.
Dept. of Fish Processing Technology	Technology audit of Fish Processing Industry in Karnataka State	Ministry of Science & Technology DSIR New Delhi		2005	2008	Dr. N.S.Sudhakar	
Dept of Fishery Micro-biology	Cloning and expression of virulence genes of <i>Aeromonas hydrophila</i> & study of their immunogenicity	DBT	30.00	2002	2006	Dr. Indrani Karunasagar, I. Karunasagar, Deepanjali, Akash N	
	Employment Generation and Enhancement of income for women in Bengre Fishing village through Biotechnologies	DBT	53.30	2004	2007	Dr.Indrani Karunasagar I. Karunasagar, Dr.B.A.Shamsundar, Dr.M.N.Venugopal, Malathi Saravanan, Divu, Surendranath	
	Occurrence of human pathogenic viruses in coastal waters and their detection by molecular techniques	DBT	23.94	2003	2008	Dr.M.N.Venugopal Indrani Karunasagar Manja Naik, Bhavani C.N.	
	Quantification of human pathogenic <i>Vibrio spp</i> in seafood using molecular techniques	KCMR	16.00	2003	2007	I. Karunasagar, Indrani Karunasagar, Sacananda Acharya, Bhanumathi A.	
	Use of molecular techniques to study the relation between dinoflagellate cysts, blooms and their toxicity in South west coast of India & to study the interrelationships between vibrios and harmful algal blooms	Indo-Swedish Project	20.00	2004	2008	Saravanan,V, Hamstrom Karolina, Maria,A., Anna Godhe, Indrani Karunasagar Rehnstam-Holm A- S., I. Karunasagar	
	Development of Molecular diagnostic kit for detection of fish borne Trematodes	EC Project			2007	2008	
Department of Aquaculture	Development of induced breeding technology for the Indian sand whiting, <i>Sillago sihama</i>	ICAR	Rs. 7.53 Lakhs	2004	2007	Dr. N. Basavaraja and Dr. H. Shivananda Murthy	

Department of Aquaculture	Aquatic Characterization of resources and Aquaculture in ponds & Tanks of Dakshina Kannada	DBT	Rs. 15.00	2004	2007	Dr. H. Shivananda Murthy Dr. E.G.Jayaraj	
Fisheries Research & Information Centre, Hebbal	"Development of molecular markers and their application in the breeding programme for Common carp, <i>Cyprinus carpio</i> "	Department of Biotechnology, Govt. of India	21.01 lakh	22-03-04	31-07-07	Dr. Y. Basavaraju (PI) Dr. G. Y. Keshavappa Dr. D.Theertha Prasad	FRIC, Bangalore
	Fisheries Research Study in Selected Tanks of Northern Karnataka Districts	Inla Samvardhana Yojane Sangha, Govt. of Karnataka	18,87,635	Sept.-2006	Sept.-2007	Dr. Y. Basavaraju (PI) Dr. G. Y. Keshavappa Dr. K. V. Mohire	
Fisheries Research & Information Center (Inland), KVAFSU, Hebbal & Hesarghatta, Bangalore	"Fisheries Research Study in selected tanks of northern Karnataka districts"	JSYS, Karnataka	Rs. 1887635/-	2006	2007	Dr. Y. Basavaraju Dr. K V Mohire, Dr. G. Y Keshavappa	

**b. Research Highlights of Projects**

**"Cryptosporidiosis in Cattle"**

A study was undertaken to determine the prevalence of Cryptosporidiosis in bovines in different organized dairy farms and Veterinary hospitals in and around Bangalore. A total of 455 faecal samples were screened and in all 26(5.71%) animals were found positive for the Cryptosporidiosis with higher prevalence in the age group of 0-1 month and remaining 429 (94.29%) were negative. The prevalence of Cryptosporidiosis was higher in diarrhoeic (24.20%) animals when compared to non-diarrhoeic (16.60%) animals. *Cryptosporidium parvum* was common in calves while *C. andersoni* was common in older animals. This was the first report of Cryptosporidiosis in bovines in Karnataka.

Eight methods including Sheathers sugar floatation, modified Ziehl Neelsens staining (hot and Cold), Kinyouns acid fast method, Safranin methylene blue staining method and negative staining techniques with nigrosin, light green and malachite green stains were evaluated in the detection of Cryptosporidiosis in cattle.

Sheather's sugar floatation and Safranin methylene blue staining were found to be good methods to detect

Cryptosporidiosis revealing high oocyst counts. The Kinyoun's acid fast staining method was better when compared with hot or cold modified Ziehl-Neelsens staining. Malachite green and Safranin methylene blue staining enabled better differentiation of oocysts and yeasts. Nigrosin and light green staining were found to be least effective.

**"Coproantigen detection of *Echinococcus granulosus* infection in dog"**

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



100 & 71.11 percent respectively. Sandwich ELISA was 100 percent sensitive and 96.94 percent specific.

#### **"Rumen microbial biomass synthesis and fibre digestion"**

Feed characteristics for rumen fermentation and microbial biomass synthesis efficiency were established for different feedstuffs. The potential for application of these data in diet formulation were evaluated through feeding experiments. The diets formulated for higher microbial biomass synthesis efficiency resulted in better weight gain. However, the response of animals to diets differing in microbial efficiency but similar in rate of fermentation was found to be similar. This suggested that the rate of fermentation is closely related with microbial efficiency and therefore, while selecting ingredients for higher microbial efficiencies, ingredients with higher rate of fermentation should be chosen. At present mathematical models are being developed to predict microbial efficiencies of the diets in vivo using feed characteristics obtained from in vitro studies.

The findings of the study were presented at the Task Force meeting held in September 2007 in New Delhi and the completion report along with utilization certificate was submitted to the Department of Biotechnology, Govt. of India.

#### **"Epidemiological, haematological and biochemical aspects of colic in thoroughbred race horses"**

Incidence of colic was 27.36 per cent. Highest incidence was noticed during summer and lowest in rainy season. Incidence was more in male horses. Incidence was more in horses aged more than 4 years. Elevated PCV, Haemoglobin and total leucocyte count was noticed in different forms of colic. The mean platelet count was lower. No significant difference was noticed w.r.t TEC, DLC. Mean fibrinogen levels, mean prothrombin time, mean activated partial thromboplastin time, chloride levels was elevated in cases of colic. No significant difference was noticed w.r.t mean blood glucose, Serum creatinine, sodium, potassium, calcium and triglyceride in horses suffering from colic. Elevated ALT, lowered LDH activity.

#### **"Studies on the antibiogram pattern of mastitis cases in cattle"**

Fifty samples have been subjected for antibiotic sensitivity studies and antibiotic sensitivity pattern of the samples have been analyzed. Gentamycin, enrofloxacin and lincomycin were found to be highly sensitive.

#### **DEPARTMENT OF VETERINARY PHARMACOLOGY**

Pharmacological and toxicological properties of *Asteracantha longifolia* Sida species and its preparations  
2.4 lakhs Herbal Science Trust, Bangalore

Cattle disease and death in Malnad areas: Studies on plant induced etiology 51 Lakhs Government of Karnataka

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

Cypermethrin, a synthetic type II pyrethroid insecticide, is one of the endocrine disruptors. The study was taken with the objective of evaluating the toxic potential of cypermethrin following short term exposure with special regard to testes in albino mice. Cypermethrin at 1/10th of LD50 @ 250mg/kg body weight b.i.d along with Arachis oil was fed for 28 days, and the Biochemical profiles of Serum and testicular enzymes and Testosterone hormonal level was estimated., along with the histopathology and electron microscopy. Serum & Testicular transaminase levels were markedly increased and steroidogenesis was adversely affected following the short term exposure to cypermethrin. Cytotoxic and ultrastructural changes in testes were also induced by short term cypermethrin exposure. The research highlighted the testicular toxicity potential of cypermethrin as indicated by the analysis and histopathology

#### **"Comparative efficacy of herbal choline on growth & performance of broilers"**

- i) Supplementation of herbal choline resulted in better performance of broilers as compared to synthetic choline.
- ii) Addition of herbal choline to broiler diets had positive effects on serum profile of broilers.
- iii) Feeding of herbal choline enhanced economy of broiler rearing.

#### **"Integrated study to evaluate Kenguri breed of sheep for mutton production for sustainable animal enterprise in Hyderabad Karnataka region"**

Studies of Kenguri breed of sheep were undertaken in the farm with following main objectives of Evaluating performance of Kenguri breed of sheep for mutton production. Ewes numbering 50 and five rams with true breed characters purchased from farmers flock were maintained in the farm. Male lambs were divided in to two groups. The concentrate feed was given to the lambs in the second group.

At the age of six months the Slaughter weight (kg.) and Carcass weight (kg.) were  $16.09 \pm 1.00$  and  $6.70 \pm 0.51$  in group I and  $18.21 \pm 1.23$  and  $8.17 \pm 0.54$  in group II. Loin Eye area ( $\text{cm}^2$ ) in group II ( $11.98 \pm 0.79$ ) was significantly ( $P \leq 0.05$ ) higher than group I ( $10.13 \pm 0.45$ ). The Dressing Percentage, Bone (%), Meat (%) and weight of Longissimus dorsi muscle (%) expressed on slaughter weight basis in group I were  $43.38 \pm 0.83$ ,  $11.74 \pm 0.31$ ,  $29.47 \pm 0.62$  and  $3.32 \pm 0.20$  resp., and while in Group II they were  $44.94 \pm 0.59$ ,  $11.95 \pm 0.23$ ,  $30.40 \pm 0.24$  and  $4.14 \pm 1.64$ . Similarly Bone: Meat ratio in group I and II were  $0.40 \pm 0.01$  and  $0.40 \pm 0.03$  resp. The proximate analysis (%) of meat showed that Dry Matter, Crude Protein, Ether Extract, Ash and Total Carbohydrates in group I were  $24.50 \pm 0.28$ ,  $16.46 \pm 0.26$ ,  $4.52 \pm 0.19$ ,  $2.20 \pm 0.31$  and  $1.23 \pm 0.17$  while in group II they were  $25.95 \pm 0.40$ ,  $17.31 \pm 0.47$ ,  $4.99 \pm 0.52$ ,  $2.39 \pm 0.38$  and  $1.16 \pm 0.34$  resp. Except for the Loin Eye area which was significantly higher in group II other traits though statistically non significant but were higher in group II fed with concentrates.

At the age of 12 months the Slaughter weight (kg.), Carcass weight (kg.) Total Meat (Kg) and Dressing Percentage were  $20.78 \pm 0.84$ ,  $9.30 \pm 0.39$ ,  $6.48 \pm 0.24$  and  $44.74$  in group I and  $22.83 \pm 0.53$ ,  $10.53 \pm 0.23$ ,  $7.13 \pm 0.17$  and  $46.09$  in group II. The, Total Bone (%), Meat (%) and weight of Longissimus dorsi muscle (%) expressed on slaughter weight basis in group I were  $12.12 \pm 0.31$ ,  $31.21 \pm 0.28$ , and  $3.31 \pm 0.10$  resp., and while in Group II they were  $12.21 \pm 0.48$ ,  $31.25 \pm 0.15$ , and  $3.29 \pm 0.14$ . Similarly Bone: Meat ratio in group I and II were  $0.39 \pm 0.02$  and  $0.39 \pm 0.01$  resp. The proximate analysis (%) of meat showed that Dry Matter, Crude Protein, Ether Extract, Ash and Total Carbohydrates in group I were  $24.50 \pm 0.28$ ,  $16.46 \pm 0.26$ ,  $4.52 \pm 0.19$ ,  $2.20 \pm 0.31$  and  $1.23 \pm 0.17$  while in group II they were  $25.95 \pm 0.40$ ,  $17.31 \pm 0.47$ ,  $4.99 \pm 0.52$ ,  $2.39 \pm 0.38$  and  $1.16 \pm 0.34$  resp.

The Slaughter weight, carcass weight and Total meat were significantly ( $P \leq 0.05$ ) higher in group II where concentrates was fed than in group I without concentrates. However, there was non significant increase in Dressing percentage nor total meat percentage in group II than group I. Similarly Loin Eye area ( $\text{cm}^2$ ) in group II ( $13.47 \pm 0.76$ ) was significantly ( $P \leq 0.05$ ) higher than group I ( $11.55 \pm 0.42$ ).

#### "Study on Culicoides midges as vectors of bluetongue disease"

- Down draught light traps were used for collection of Culicoides midges near sheep flocks at 12 districts covering 08 Agro-climatic zones of Karnataka

- A total of 83,320 and 35,314 Culicoides midges were collected during rainy and post rainy season with a mean of  $7248.417 \pm 2669.093$  and  $3366.182 \pm 1333.504$  midges. However, there was no significant difference ( $P \leq 0.050$ ) in their abundances in rainy and post rainy seasons.
- Species diversity was found to be higher in rainy season than post rainy season.
- A total of 19 species of Culicoides were found in Sheep farms covering twelve districts.
- Based on consistent higher abundances and wider distribution in Karnataka, the dominant species are *C.imicola* and *C.oxystoma*
- Abundances of *Culicoides imicola* were higher than *C. oxystoma* and other species in majority of the farms.
- There was overall higher abundance of *C. imicola* than *C.oxystoma* in post monsoon season which statically significant at  $P \leq 0.050$
- Abundances of *C.imicola* were also increased in post rainy season than its previous abundances. There was no significant association of ambient temperature and rainfall on the abundance of *Culicoides imicola*.
- Outbreaks of bluetongue were reported in 13 districts during the period from January, 2005 to June, 2007 which were mainly occurred from October to February months.
- Seven outbreaks clinically suggestive of Bluetongue were attended in Bidar district.
- Based on the higher abundances of *C.imicola* during the season of outbreak of Bluetongue, its higher abundances in the flocks of BT affected sheep and the presence of BT antigen in them as demonstrated by Indirect immunofluorescent test and *C.imicola* is already a proven vector of bluetongue disease, it can be concluded that *C.imicola* may the prime vector of Bluetongue in the state.

#### "Studies on retention of placenta in nd buffaloes of Bidar dist. Using Boli. Involon & Induction of twinning using GnRH or hCG in deccani ewes"

Two involon boli tid orally for 3 days improved fertility rates in buffaloes with RFM.

Highest lambing % (83%) was encountered in Buserlin Acetate (0.0063mg.) followed by 75% in 750 iu hCG and 66% in BA 0.004 mg. Twining % was highest in Buserlein Acetate 0.004 mg. followed by 50% BA



0.0063 mg. and lowest 12.5% in hCG 750 iu. Hence twinning can be induced by injecting GnRH on the day of oestrus in Deccani ewes.

#### "Studies of Infectious Preseptal orbital cellulites"

Preseptal orbital cellulites disorder was found as an emerging disease in buffalo calves affecting one or both the eyes. Wither upper or lower or both eyelids were involved. The disease was found in the animals of same locality during the months of Feb. to April. The incidence of this eye disorder was highest among all eye problems presented during this study. The disease is febrile with greatly swollen eyelids filled with purulent material and obstructing the vision. Hematological studies revealed leukocytosis and neutrophilia. Bi-chemical studies revealed elevated ALT. The isolation of bacteria revealed different kinds of bacteria and more commonly Staphylococci. Surgical technique was designed which included providing drainage at dependent region. This resulted in complete cure of the disease and saved vision.

#### "Coastal Conservation Strategies and enterprise development for sustainable livelihood in Karnataka, India"

1. Two mangrove management committees were established to undertake planting of mangroves in 15ha and 20ha in two sites (villages) of Aghanashini estuary.
2. 15000 samplings were planted during sept-oct 2006 in two villages.
3. Training in other livelihood enterprises were conducted such as clam-meat product development, bee keeping and traditional shrimp filtration methods.
4. The interested 18 members were supplied with bee keeping boxes.
5. A stakeholder workshop was organized in January 2007 to develop community based fishery related activities and to develop a Aqua-park in the area of 1800 acres earmarked for industrial development close to the project site in Uttara Kannada (Tadadi)
6. Initiatives were taken to launch 3 new products by organizing women's activity group called Matsya Jyothi.
7. Product and package design were finalized for silver bellies, sciaenids and anchovies.
8. The capacity for Women's Activity Group was enhanced by technical training and marketing support.
9. The women-fish retailers were organized and supported for participating in the auction market directly and thus enhancing the net earnings by 20-25 percent.

#### "Estuarine Fish Stock Assessment: An Empirical Application of PARFISH (AbAc 5010)"

1. Based on the average total quantity of fish harvested per day per day monthly total catches of individual fisher was estimated and the fishers were ranked based on the total quantity harvested.
2. The fishers were sorted in ascending order based on their ranks and divided based on quartile groups (kg/fishing trip)
  - Less efficient: <195.25
  - Moderately efficient: 195.25-302.75
  - Efficient: 302.75-393.70
  - Highly efficient: > 393.70
3. The trend in total catch quantity of the selected species shows that the catch rate of lady fish is declining and that of cat fish is increasing during 2000-2005.
4. In order to maximize the days catch the fishers have to carry at least three nets of varying mesh size (70mm, 50mm and 42mm).
5. The catch value is shared among 3 crewmen (30% each) and the rest 10% is kept for crafts and gear.
6. With live-baits the fishermen get 5-7 fishes while with dead-baits they get only one fish. Hence there is competition to collect live baits
7. The fishers fish for around 40 days during the rainy season and 200 days during the summer.
8. The average size of a traditional boat is around 23 feet in length, 3.5 feet in width, 2.5 feet height.
9. The higher level of catch of lady fish during monsoon was observed due to muddy flow of river water with high nutrient-availability. Due to discolorization of river water, fishers cannot see very thin monofilament fiber nets and are easily caught.
10. With the introduction of fiber-boats the capital cost of the boat has increased but the maintenance cost (painting, thatched hut construction and other labour costs have decreased.)
11. The fishers pay 6% commission to the auctioneer and pay 20% of their catch value towards the loan amount borrowed.

### Problems of the fishermen

1. One of the reasons for the decline of fish catch is the sudden opening of dam during monsoon and reduced water discharge during post monsoon period
2. Siltation of the estuary and reduced depth increase in the number of fishers in Nethravathy since Gurupur fishing is less productive

### "Development of induced breeding technology for the Indian sand whiting, *Sillago sihama*"

1. It is possible to distinguish between *S. sihama* and *S. vincenti* based on external characteristics and on examination of the swim-bladder.
2. RAPD analysis of the two species (*S. sihama* and *S. cincenti*) from the Netravathi river did not, however, yield any species specific bands. This shows that they are genetically highly identical.
3. PCR-RFLP of mitochondrial rRNA genes revealed that products of approximately 620bp were obtained using 15S rRNA primers for both the species, 454 and 437 bp were obtained from 12S rRNA primer for *S. shinama* and *S. Vincenti*, respectively. The PCR products were in the expected size range. The restriction profiles of 12S and 16S rRNA amplified products were developed with SmaI and Hind III, which yielded polymorphic species specific bands.
4. Fingerling and adult *S. sihama* could be acclimatized and reared for more than 80 days, in captivity. The captive sand whiting preferred to feed on small crustaceans (shrimps), crushed fish meat, mosquito larvae, blood worm, earth worm and Acetes.
5. The maximum weight recorded for male and female was 77.65 and 76.9g, respectively, while the maximum length recorded for male and female was 21.70 and 21.96 cm, respectively.
6. The highest per cent of gravid formulas was found during September, October. The Gonadosomatic Index (GSI) of females was marginally higher ( $3.84 \pm 0.80$ ) than that of males ( $2.09 \pm 0.21$ ) and there was no significant difference in GSI of male and female ( $P > 0.05$ ) expect for the months of April and July.
7. The absolute fecundity varied between 21,138 and 50,272 eggs/female, whereas the relative fecundity was found to be between 4, 36,767 and 8,92,248 eggs/kg body weight of female.

### "Aquatic characterization of resources and aquaculture in ponds and tanks of Dakshina Kannada"

1. The availability of ponds, tanks and their characterization was done in different taluks of Dakshina Kannada. It was found that majority of ponds were small in size and used for the purpose of water storage for irrigation purpose.
2. Underwent 20 fish farmers were trained on "improved practices of aquaculture and demonstration on polyculture and freshwater prawn farming were taken up.
3. Fish farmers were supplied with fish fingerlings and other inputs and demonstration were taken up at different taluks of Dakshina Kannada.
4. It was found that at the end of the project the farm family income of these farmers was enhanced by taking up aqua practice and nutritional status of family members was a enhanced due to consumption of fish particularly SC/ST and backward classes.

### "Development of molecular markers and their application in the breeding programme for Common carp (*Cyprinus carpio*)"

The performance of common carp in G0 generation was higher in comparison to G-I and G-II from both the lines (Line A&B). Final mean weights of common carp in G-I between different lines were not significantly different and were found with higher mean weight compared to G-II. The mean weights in G-II were much lower in comparison to G-I. The mean weights attained by common carp in G-I and G-II were much similar at different locations. A breeding experiment was designed and initiated to produce crosses between the fast growing and slow growing parents to study the parental contribution, allelic contribution and to find association of markers with the body weight. The study revealed that the allelic contribution was slightly more from the female parents in both the experiments but not significantly deviating from normal sex ratio contribution. The markers are not showing any significant correlation with body weight class. At this stage the markers correlating to growth trait could not be obtained as this is the first generation and segregation takes place only in the second generation or later and most of them grouped in the weight class having mean body weight.

### "Fisheries Research Study in Selected Tanks of Northern Karnataka Districts"

The optimal stocking density for the short seasonal



tanks in the northern Karnataka region was found 1500 stunted fingerlings/ha with an average production of 1315 kg/ha/year, followed by 1750 (843 kg/ha/year), 1250 (812 kg/ha/year) and 2000 no/ha, (780 kg/ha/year) respectively. Common carp followed by Silver carp and Catla have shown better performance in most of the tanks indicating that these are the most suitable species for short seasonal tanks of this region. Most of the TUGs are interested in taking up fish culture. But there are differences of opinion among the members. There is a need for social motivation and inculcating belongingness is required if such programmes are to be successful even after withdrawal of projects.

The main objectives of the project was to assess productivity, monitor water quality, evaluate fish growth performance in tanks in relation to fisheries in selected tanks in Bidar, Raichur, Bellary, Koppal, Bagalkot and Haveri districts.

#### Results and Inference

Under this project 10 tanks in 5 project districts namely, Bidar, Bagalkot Raichur, Bellary, and Haveri were selected and were stocked with stunted fingerlings of cultivable carps. I was in charge of Raichur district where

3 tanks each in Kamalapur, H.Manjeerla and Gaddhar were selected and stocked with Indian major carps and exotic carps.

The Kamalapur tank harvested completely on in the first week of April, 2007 due to decrease in water level. Among the different species stocked, common carp attained maximum growth followed by catla and silver carp. The total fish harvested was 1928 Kg/4.3ha/4 months. The estimated total annual production works out to 1345 Kg/ha/Year.

The Manjeerla tank harvested completely in March, 2007 due to reduced water level. Among the different species stocked, common carp attained maximum growth followed by silver carp and catla. Total weight of fish harvested was 538 Kg/2ha/4 months. The estimated total annual production works out to 807Kg/ha/Year.

Soil, water and plankton analysis of these were carried out every month to monitor water quality. The tanks are suitable for fish culture but there was water problem as these tanks are being used for Agriculture purpose also.

## 2. Ongoing Projects

### a. Project details

Dept. Involved	Title	Sponsoring Agency	Budget outlay	Year of Commencement	Principal Investigator and Co- Investigators	Institute
Veterinary Parasitology, VCH	Current status of Coccidiosis in broilers and broiler breeder chicken	C.A.S., ICAR	--	2008-09	Dr. Placid .E. D'Souza Professor & Head	Veterinary College, Hebbal, Bangalore
Pathology	Studies on Immunotoxicity of T-2 toxin in chick embryos	KVAFSU	Rs. 40000/-	2008-09	Dr. N.B.Shridhar Dr. K.Jayakumar,Dr.A.H.Shualo	
Pathology	Funds for Improvement of Infrastructure in Para-clinical Division	Dept of Science & Technology, Govt of India	Rs. 3300000/-	2008-09	Dr. K.Jayakumar Dr.N.B.Shridhar Dr.A.H.Shualo	
Livestock Production and Management	Improving the economic and health status of rural people through backyard rabbit rearing" (Two Years-project)	Dept.of Biotechnology Ministry of Science & Technology Government of India, New Delhi.	Rs. 16.07lakhs	2007	Dr.YB.Rajeshwari, Dr.R. Bhaskaran Dr. K. Satyanarayan	
ABGB	Survey, Evaluation and Characterization of Hallikar breed of cattle	ICAR	23.95 lakhs	2006-07	Dr. M.G.Govindiah, Dr. C.S.Nagaraja and Dr. M.R.Jayashankar	
CVM	Studies on NAG as an indicator for diagnosis of subclinical mastitis in bovines	NIL	Rs. 15,000	2006 -07	Dr. S.Yathiraj Dr. H.A.Upendra Dr. C.Ansar Kamran Dr. P.T.Ramesh Dr. Deepthi.B.R.	
CVM	"Studies on broiler chick mortality in certain district of Karnataka state" Proposal was sent to KVAFSU		Rs.25,000	2008 - 09	Dr.H.A.Upendra Dr.S.Yathiraj Dr.P.T.Ramesh Dr.Suguna Rao Dr.H.Narasimha Murthy	
CVM	Studies on diagnosis and therapeutic management of atopic dermatitis in dogs proposal was sent to KVAFSU		Rs.20,000	2008 -09	Dr.S.Yathiraj Dr.A.Muralidhara Dr.C.Ansar Kamran Dr.M.L.Satyanarayana	
CVM	Studies on Prevalence and Treatment of Mastitis in Cows Proposal was sent to KVAFSU		Rs.20,000	2008 - 09	Dr.S.Yathiraj Dr.M.Narayana Bhat Dr.C.Ansar Kamran Dr.D.Rathamma Dr.N.B.Sridhar	
Department of Poultry Science	"AICRP on Poultry Breeding for Meat"	ICAR	Rs.50,03,000	2008-09	Dr. H.N.Narasimaha Murthy Dr. B.Umakantha Dr.Jayanaik	
Department of Poultry Science	yeast product (NuPro ®) in improving the broiler chicken performance	Alltech biotechnology Pvt. Ltd., Bangalore.	Rs.94,900-00		Dr. H.N. Narasimaha Murthy Dr. N.Rajeshwara Rao Dr. U. Krishnamoorthy Dr. B.Umakantha Dr. M.L. Sathyanarayana	
Department of Poultry Science	"Effect of type of Silkworm pupae meal and enzyme fortification on performance, lipid profile and immunological status in broilers"	Crescent Traders, Kolar.	25,000-00	2006-07	Dr.T.Munegowda Dr.H.N.Narasimaha Murthy Dr.B.Umakanth Dr.K.Chandrapal Singh Dr.Jayanaik	



Department of Poultry Science	Trail with fibro fid ab tox and fibrofid m on broiler chicken	Bio spert Pvt. Ltd., Chandigarh, Panjab.	Rs. 1,20,900-00	15-4-2008	Dr. B.Umakanth Dr. T.Munegowda Dr. H.N. Narasimaha Murthy Dr. Jayanik Dr. K. Venkata Reddy	Veterinary College, Hebbal, Bangalore
Department of Vety Epid & Prev. Medicine	Seroprevalence of brucellosis in different species	KVAFSU	-	2006	Dr. PT Ramesh Dr. M. Narayana Bhat Dr. A. Muralidhara	
Department of Vety Epid & Prev. Medicine	Study on the antibiogram pattern of otitis cases in dogs	KVAFSU	-	2004	Dr. M. Narayana Bhat Dr. A. Muralidhara PT.Ramesh	
Medicine Vety Microbiology	Development of Biofilm based vaccine against Mastitis causing <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> organisms in Bovines	DBT	Rs.30.71/- lakhs	2006-07	Dr. Shrikrishna Isloor & Dr. D. Rathnamma Dr. B. M. Veeregowda	
	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	
Vety Pharmacology	Obscure Diseases of Cattle & Buffaloes of Karnataka: Studies on cause and treatment	Government of Karnataka	80 lakhs	2006-07	Dr. N.B.Shriolhar Dr. K.Jayakumar Dr. A.H.Shuaib	
	Pharmacological & therapeutic evaluation of cattle urine	Government of Karnataka	Rs.414 lakhs	2006-07	Dr. K.Jayakumar Dr.N.B.Shriolhar Dr.A.H.Shuaib	
Dept. of Vety. & A.H Extension	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 Hyderbad Karnataka Region.	Dept. Of Biotechnology, Govt. of India	Rs. 15.83 lakhs	2006	Dr.K.C. Veeranna, Dr. V. Nagabhushan, Dr. C.B. Madhavaprasad,	Veterinary College, Bidar
Dept. of Vety & A.H. Extension	Livelihood Security through Resource & Entrepreneurship Management in Bidar District	ICAR, New Delhi	Rs. 1.94 crores	2008	Dr. K.C. Veeranna,	
	Identification & documentation of Ethano Veterinary Practices in Bidar district		Rs. 15,000/-		Dr. Shivakumar K Radder & Dr. K.C. Veeranna	
Pharmacology & toxicology	Identification of Nitrate/Nitrite rich plants present in and around Bidar district	Staff research project fund	Rs. 25,000/-	2007	Principal investigator Dr.N.Prakash Co investigators Dr. U.Sunilchandra Dr. M.Vijay kumar	
ABGB	Study of Mastitis in Cross-bred cattle of Kolar and its affect on economy	KVAFSU		2007	Dr.G.S.Naveen Kumar, Dr. M.M. Appannavar, Dr. M.D.Suranagi, Dr Jagdeesh Kumar N.	
ABGB	Prediction equation for body weight in Kenguri Sheep	KVAFSU	2007		Dr. M.D.Suranagi, Dr. M.M. Appannavar, Dr.G.S. Naveen Kumar Dr.U.S. Biradar Dr. Basavaraj. Awab	
VMC	Studies on seroprevalence of Brucellosis in sheep and goat in and around Bidar					



Dept. of Fish Processing Technology	Application of microbial Transglutaminase and neutral salts to improve the gel forming ability of a few selected fish species	DBT		2006	Dr. B.A.Shamsundar	
Dept. of Fish Processing Technology	Community based Fisheries Entrepreneurship for women groups in coastal Karnataka	RKVY			Dr. C.V.Raju	
Dept. of Fish Processing Technology	Contract at insect infestation in salted and dried fish by use of herbal extract	KVAFSU			Dr. C.V.Raju	
	Bioinformatics application in aquaculture and marine biotechnology	DBT	90.00	2002	Indrani Karunasagar, Venugopal M.N.	
Department of Fishery Microbiology	National risk assessment programme for fish and fish products for domestic and international markets	ICAR	12.00	2003	I. Karunasagar, Indrani Karunasagar	
	Establishment of Indian Bioresources Information Network (IBIN)	DBT	9.64	2005	Indrani Karunasagar, M.N.Venugopal	
	Gene expression in <i>Penaeus monodon</i> & <i>Penaeus indicus</i> in relation to microbial infection & environmental stress	DBT	76.05	2005	I. Karunasagar, Indrani Karunasagar	
	Programme support in Fisheries Biotechnology	DBT	117.60	2005	I. Karunasagar, Indrani Karunasagar	
	Application of PCR for improved shrimp health Management CSIRO-NACA			2008	Indrani Karunasagar, I. Karunasagar	
	Development of molecular diagnostic kit for detection of fish borne trematodes	EC		2008-09	Indrani Karunasagar, I. Karunasagar, M.N.Venugopal, V.Saravanan	College of Fishenes, Mangalore
	Application of PCR for improved shrimp health Management	NACA		2008-09	Indrani Karunasagar, I. Karunasagar, Pradeep, B.	
	RNA interference (RNAi) as an antiviral mechanism against hepatopancreatic parvovirus (HPV)	DBT	38.75	2005	Indrani Karunasagar,	
	Programme support for Research in Aquaculture and Marine Biotechnology	DBT	160.64	2008	Indrani Karunasagar, I. Karunasagar, M.N.Venugopal	
	Programme support in fisheries Biotechnology	DBT		2008-09	Indrani Karunasagar, I. Karunasagar, M.N.Venugopal, V. Saravanan,	
Molecular genetic cauterization of Salmonella Strains associated with seafoods with particular emphasis on virulence associated & environmental fitness Genes.	ICMR	3.80	2003	Indrani Karunasagar, I. Karunasagar,		

	Distributed information Sub-Center (DISC)	DBT	90.00	2000	I. Karunasagar, Indrani Karunasagar, Malathi, S.,	
	Development transgene Constructs with antimicrobial peptide genes and evaluation of their suitability for production of transgenic Rohu.	ICAR	25.04	2005	Indrani Karunasagar, I. Karunasagar	
Department of Fishery Environment and Ecology	"Sea water quality monitoring in NPCL sea water intake and effluent discharge location of Padubidri	UPCL	6,21,500/-	Annually	Dr. H.R.V Reddy	College of Fisheries, Mangalore.
	Ecological monitoring in the Arabian sea off Thannirbhavi & bioassay Studies	MCF	6,42,000		Dr. H.R.V. Reddy	
	Monitoring of pollution impact due to the discharge of treated effluent from BASF Mangalore	BASF	7,13796/-		Dr. H.R.V. Reddy	
	"Treated effluent analysis and monitoring of sea water quality off Chirraura near the marine outfall of effluent from MRPL ONGC Mangalore	MRPL	4,95,200/-		Dr. H.R.V. Reddy	
Dept. of Aquaculture	Monoclonal to major carp Immunoglobulin	DBT	Rs. 20 Lakhs	2003-2007	Dr. Shankar K. M.	
	Impacts deep sea fishing on Coastal fisherman and their Socio-economic conditions	KSPCB	Rs. 40,000/-	2006-09	Dr. Shivananda Murthy, H	
	Freshwater prawn hatchery seed production	ICAR	Rs. 8.2 Lakhs	2006-2011	Dr. Shivananda Murthy, H Dr. E. G. Jayaraj	
Animal Nutrition	Studies on sorghum based complete ration feeding to	PhD. Study		2007	Dr. Ramchandra - Ph.D. Student, Guide	Deoni cattle LRIC
LRIC	Studies on production & reproduction parameters of Deoni cattle	KVAFSU		2008	Dr. Satish Biradar Dr. Appanawar M.M. Dr. Vivek M Patil	Deonifarm Karanja, Bidar
Fisheries Research & Information Centre, Hebbal	"Demonstration and Impact assessment of genetically superior common carp stocks for enhancing rural aquaculture production systems in Karnataka and Dissemination of improved hatchery practices"	DBT, Govt. of India	28.68 lakh	2007-10	Dr. Y. Basavaraju (PI) Dr. G. Y. Keshavappa Dr. Lalith Achoth	FRI, Bangalore



## B. Research Highlights

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

**Objectives:** To know the Current status of Coccidiosis in broilers and broiler breeder chicken in Bangalore district. To assess the prevalence in different systems of rearing and under different control strategies. Screening birds, litter in farms in Bangalore district for infection. Oocysts per gram of faeces and Litter oocyst density will be determined to estimate the severity of infection. Post-mortem examination and Lesion scoring of dead or sacrificed birds will be conducted. Speciation of the oocysts will be based on morphology and micrometry.

### "Improving the economic and health status of rural people through backyard rabbit rearing" (Two Years-project)"

#### 1. Identification of women and rural Beneficiaries

We intend to train rural women and landless Beneficiaries (trainees)

- Survey is done for selection by providing proforma (Application forms) which gives information on family size, economic status, occupation, seasonal and daily workload.
- Preliminary survey of rural women is conducted in three districts namely Bangalore rural, Kolar and Tumkur.
- In Bangalore rural and Kolar and Tumkur district beneficiaries are identified Doddaballapur taluk - one village, Bangalore rural district 100 families, Nelamangala taluk - 6 villages, Magadi taluk - 6 villages Kolar districts - 50 families Bagepalli - 5 villages Gauribidanoor - 50 families Turvekere - 50 families
- Beneficiaries are from the economically weaker sections and women
- They are from rural background and landless labourers.

#### Propagation of broiler rabbit

Identified beneficiaries are given training on broiler rabbit farming. Rabbitary unit is Propagated and

initiated. Breeding of rabbit in Veterinary College, Bangalore and identified Indian Rabbitary Private Farms. These Rabbits are distributed to people. Training Programmes and field demonstration were carried out.

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

Appropriate Questionnaires (1-5) and a Breed Descriptor were developed in Kannada for recording the information to fulfill the objectives mentioned above which are in conformity with the model questionnaires sent by the NBAGR, Karnal with slight modifications to suit the local needs and to gather information from the farmers. House hold information from about 5000 farmers, regarding agriculture and livestock holdings and livestock management systems have been collected from Mandya, Malavalli and Maddur taluks of Mandya district and Kunigal taluk of Tumkur districts. Formats for recording of body measurements have been provided to data enumerators. The information is being compiled for further analysis.

### "Seroprevalence of brucellosis in different species & Study on the antibiogram pattern of otitis cases in dogs"

Thirty samples of otitis cases have been subjected for ABST and thirty serum samples have been analyzed for brucellosis. The work is under progress.

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

During the 2007-08, a study was undertaken to analyze outer membrane proteins (OMP) of most prevalent *E.coli* O9 and O147 serotypes of bovine mastitis, grown under biofilm (BF) and planktonic mode with reference to their immunogenicity and cross reactivity and also evaluate *E.coli* biofilm based vaccine in rabbits. The important findings of this immunoblot studies was detection of additional 24.4 and 28.5 kDa polypeptide in case of OMPs of both *E.coli* O9 and O147 grown under biofilm (BF) mode and 34.5 kDa polypeptide in case of *E.coli* O147 grown under BF mode. This indicated the immunogenicity and cross reactivity of novel proteins expressed when *E.coli* was grown under BF mode. Sequential steps of BF such as attachment, microcolony formation and maturation and detachment studied by transmission electron microscopy showed complete loss of extracellular appendages and formation of glycocalyx layer around the organism. Mastitis was induced in lactating rabbits by

using both *E.coli* O9 and O147 serotypes with  $10^4$ ,  $10^5$ ,  $10^6$  and  $10^7$  cfu/ml of bacterial suspension via the base of the teat. Induction of mastitis was indicated by gross lesions of mammary glands, increased Somatic Cell Count (SCC), California Mastitis Test (CMT) positivity and increased bacterial count in milk. All these relevant indicators of mastitis indications showed maximum values 48 hrs after inoculation. Pregnant rabbits immunized with *E.coli* O9 BF and FC vaccines were evaluated for the gross lesions of mammary glands, SCC, CMT and IgG level by ELISA after homologous and heterologous challenge. Statistical analysis was made to evaluate BF and FC vaccines with respect to the development of mastitis. Further, serum IgG levels detected by ELISA were significantly higher in BF vaccinated rabbits than FC vaccinated ones. In conclusion, *E.coli* BF and FC based vaccination trials in rabbits indicated the supremacy of *E.coli* BF vaccine over the FC vaccine against experimentally induced mastitis in rabbits using *E.coli* isolates from bovine mastitis.

#### "Development of recombinant antigen based diagnostic tools for the detection of avian *Mycoplasma* infections"

A total of 425 samples were collected for the isolation of *Mycoplasma gallisepticum* (MG) and / or *Mycoplasma synoviae* (MS) from chicken from 39 commercial and government poultry farms from different parts of Karnataka, Andhra Pradesh and Tamil Nadu from both live and dead birds in Frey's mycoplasma broth. The species specific PCR was standardized for the detection of MG and MS from poultry. Among 425 samples collected, 153 broth tubes showed characteristic signs of growth. Of the 153 broth tubes, 46 tubes were plated onto Frey's agar medium. Of these, only 27 broth tubes showed a typical colonies characteristic of *Mycoplasma* species. The DNA was extracted from 153 tubes using commercially available kits and subjected for Polymerase Chain Reaction to amplify 16S rRNA gene of MG and / or MS with three different sets of published primer sequences. Of the 153 samples only three samples yielded amplicon size of 207 bp specific for MS which were identified by the lab numbers as KVAFSU MS R1, KVAFSU MS R4 and KVAFSU MS S9 while MG was not detected. The purified PCR products of KVAFSU MS R1 and KVAFSU MS R4 was sequenced and their 16S rRNA gene partial nucleotide sequences were analyzed using BLAST program, which showed a homology of 81 and 79 per cent respectively with already published sequences. Further, the phylogenetic nucleotide sequence analysis revealed that, both the field isolates

fell into same group as that of the reference MS isolate, but different from that of the MS colored antigen.

#### "Obscure Diseases of Cattle and Buffaloes of Karnataka: Studies on cause and treatment & Pharmacological and therapeutic evaluation of cattle urine"

"Many plants like *Ficus tshahela*, *Mimosa invisa*, *Embelia tserium* cottom, *Adiantum latifolium*, *Christella parasitica*, *Diphilidium xylanoides*, *Raphidopora pertusa*, *Cassia spectabilis*, *Bamboo shot*, *Eupatorium odoratum* and *Mimosa pudica* were proved to be toxic in calves and laboratory animals.

Pharmacological properties of the plant *Asteracantha longifolia* like hepatoprotective activity, immunomodulatory activity, analgesic activity, antiinflammatory activity were studied and proved that it is having efficacy. The toxic features of this plant was also studied.

Identified many plants and mycotoxins as toxic to cattle and sheep of Karnataka and demonstrated their toxicity in laboratory animals and calves. The toxic features of the fungal affected sorghum, maize, paddy straw, maize hulls and gungal infected hay.

Studied the pharmacological property and toxicological property of the cow urine. Cow urine was proved to have anti diabetic property.

#### "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"

1. 150 SC/ST youth were organized into 13 Livestock Interest Groups (LIGs)
2. Human Development Index was assessed for the five talukas
3. Beneficiaries' contribution (50%) was mobilized towards purchase of goats for the afore said beneficiaries.
4. Asset creation
  - Asset of 4 goats and one manger per beneficiary
  - Further 310 goats are added with average of 3.1 per beneficiary
  - Conservation of Bidri goat germ plasm at village level
  - Insured the goats for a period of 3 years
  - Regular health care services at the door step
  - Introducing weight based marketing



#### 5. Trainings organized :

16 on campus and 33 on farm trainings were organized

6. Demonstrations: Eight on farm demonstrations were conducted

7. Income and employment generation

- The beneficiaries are able to save money regularly (Rs. 10 to 20 per week) in the bank which makes them feel financially secure.
- Able to borrow money at any time from the group at low interest to meet emergency needs.
- Supplementary income for 150 SC/ST/ families (310 kids in 1 year yielded an average of Rs. 3100 per beneficiary).
- **Food Security** : Little milk for their children consumption and preparation of tea/coffee.
- **EDP Skill** : Microfinance based entrepreneurship development
- Decision making role in the family
- Positive impact: on improving livelihood, saving and debt position, living and consumption standard
- Confidence and self dependence being in the IIG and Bidari goat rearing activity

8. Sensitization in rural community

- Motivated youth/rural families to take up Bidari goat rearing as income generating activity
- Effective utilization of pulse based roughages for feeding goat
- Goats can be reared under stall feeding.

#### "Identification of Nitrate/Nitrite rich plants present in and around Bidar district"

The project was undertaken with the aim of identifying the nitrate/ nitrite rich plants by specific reagent tests and documenting the commonly occurring plants in various places of Bidar dist., based on the botanical name together with the common regional names of the plants. The toxicological analysis will be done for the different parts of the plant and during different seasons of the year. The plant samples, photographs of the plants will be collected for herbarium maintenance. The project is ongoing and the financial requirement is met with the college staff research fund.

#### "Prediction equation for body weight in Kenguri Sheep"

To predict live body weight of Kenguri sheep based upon the chest girth, flank width and length of an animal, the data was collected from flock maintained at Veterinary College, Bidar along with flocks maintained by the shepherds in its breeding tract. Based on the results it was concluded that model ( $Y = -40.071 + 0.622G + 1.322F$ ) where G is the girth and F is the flank width is the best model for predicting the body weight of Kenguri breed of sheep.

#### "Caseinophosphopeptides from unutilized bio-resources in the prevention of dental caries"

Caseinophosphopeptides (CPPs) obtained from unutilized milk (rejected milk) and Shrikhand whey were analyzed for their calcium binding and solubilizing abilities. Chewing gums and sugar-free chewing gums were prepared by incorporating CPPs at 1, 3 and 5 per cent levels and controls without CPPs. Sensory evaluation of the confections by a panel of judges on 9-point hedonic scale revealed no statistical significance between the control and CPP incorporated chewing gums. However, chewing gums with 3 per cent level of CPPs had highest overall acceptability. Textural characteristics of the chewing gums like chewiness, gumminess and hardness enhanced with the increase in the level of CPPs. Simulation studies on the release of calcium from the chewing gums incorporated with CPPs showed that there was a slow and steady release of calcium compared to control, the property which may help in the remineralization of teeth.

#### "Monoclonal to major carp Immunoglobulin"

Carp IgG raised, purified by affinity chromatography. IgM characterized, Monoclonal antibodies raised against IgM of carps for diagnosis and serotyping

#### "Studies on sorghum based complete ration feeding to Deoni cattle & Studies on production & reproduction parameters of Deoni cattle"

Studies on productive and reproductive parameter of Deoni Cattle : This study will be useful in knowing the production and reproduction parameters of Deoni Cattle which is native of this geographical area. Very little Studies are done on deoni cattle which is known for its dual purpose. The Studies will confirm the existing data available and will further help in generating additional data and applied research can be taken on that basis.

## Research And Disease Investigation

(Institute of Animal Health and Veterinary Biological, Hebbal, Bangalore)

The main objectives of this section are to provide diagnostic services to the field veterinarians and give suitable advice regarding prevention and control of contagious diseases of livestock and poultry. This section has a Central Laboratory located at Bangalore and eight Regional Animal Disease Diagnostic Laboratories, one each at Belgaum, Bellary, Bidar, Davangere, Gulbarga, Mangalore, Mysore and Shivamogga. A diagnostic laboratory exclusive for wild animals is functioning at Bannerghatta National Park, Bannerghatta. These laboratories are being strengthened under SDI plan. The details of the work carried out in various sections of the Disease Investigation Wings during April 2007 to March 2008 are given in Table 2 and Figure-1.

Two ICAR funded research programmes are under progress i.e.,

1. Studies on epidemiology of bluetongue disease in sheep conducted at this Institute with the financial assistance from ICAR.

### 2. Network project on Blue tongue

In addition, the following two AICRP research programmes are also in progress at this Institute viz.

- i. AICRP on Foot and Mouth Disease.
- ii. AICRP on Animal Disease Monitoring and Surveillance.

Other projects are

- a) Molecular identification of wild life species project funded by Waltham foundation.

The Southern Regional Disease Diagnostic Laboratory funded by Government of India was also continued. This laboratory provides referral diagnostic service to the southern states viz., Karnataka, Kerala, Andhra Pradesh, and Puducherry. Under this project the existing disease investigation laboratories are being strengthened.

**"Demonstration and Impact assessment of genetically superior common carp stocks for enhancing rural aquaculture production systems in Karnataka and dissemination of improved hatchery practices"**

The studies on demonstrations and impact assessment of superior Amur common carp in 10 locations in 5 districts (18 demonstrations) viz., Bangalore, Mandya, Mysore, Chamarajanagar, and Hassan representing different agro-climatic regions of southern part of Karnataka indicated that the performance of Amur carp was superior in both polyculture (an average weight 224.6g in Amur and 137.33g in triploids compared to control 46.60g) and in monoculture (Amur 123.16; triploid 71.01; control 104.18). The Northern part of work is in progress.

### 3. Research Collaborations/MOUs with national/international organizations

Dept. of Aquaculture, College of Fisheries, Mangalore having Indo-Norwegian collaboration on fish vaccine initiated with funding support from the Department of Biotech, New Delhi.



#### 4. Research Papers Published

Sl. No.	Name of the author	Year of Publication	Title	Journal, Vol, Page Nos.	Institute
1.	Mamatha, G.S. and Placid E.D'Souza,	2007	Gastrointestinal Parasitism in sheep and goats from different districts of Karnataka	Intas Polivet 8, 1, 112-114	Veterinary College, Hebbal, Bangalore
2.	Ananda,K.J. and Placid E.D'Souza	2007	Prevalence of microfilariasis in dogs	Indian Vet.J 84 . 1204-1205	
3.	B.C.Girish and Suguna Rao	2007	Squamous Cell Carcinoma in Canines	Indian Veterinary Journal, 84:691-693	
4.	V T Shilpa and Suguna Rao	2007	Immunohistochemical Evaluation of Apoptosis in 5 different phases of TVT Growth	Indian Veterinary Journal, 84:688-690	
5.	V T Shilpa, Suguna Rao	2007	Cytological & Histopathological valuation of Transmissible Venereal Tumor	Indian Veterinary Journal, 84: 573-575	
6.	Kavitha Rani B	2007	Evaluation of binding capacity of a commercial toxin binder against pesticide thiram in broilers	Indian Journal of Animal Sciences 77(9):882-883	
7.	R Swetha, K Jayakumar, M Narayanaswamy, N B Shridhar, Jagadish Sanganal and Suguna Rao	2007	Organ directed toxicity of Halquinol in a repeated dose 28 day oral toxicity study in female rats	Indian Journal of Pharmacology, 39(2): 97-102	
8.	Kavitha Rani B	2007	Effect of Probiotics supplementation on gut microenvironment and broiler performance.	Indian Journal of Animal Nutrition, 24(1).	
9.	Pradeep Kumar ray and H D Narayanaswamy	2007	Aflatoxin B1 induced pathomorphological changes in chick embryos	Indian Journal of Veterinary Pathology. 31(1): 29-31	
10.	B Kavitha Rani and T S Nalini	2007	An electron microscopic study on sequential viral localization in various tissues in experimental HPS in broilers	Indian Journal of Veterinary Pathology. 31(1): 72-73	
11.	Vinuthan, M.K., Girish Kumar V, Narayana Swamy, M. And Veena, T.	2007	Lipid lowering effect of aqueous leaves extract of <i>Murraya koenigii</i> (curry leaf) on alloxan induced male diabetic rats	Pharmacognacy Magazine, 3: 112 -115.	
12	Veena, T	2007	Punyakoti test-an ancient Egyptian test (2200BC) extended to diagnose pregnancy in cattle	Compass (CIKS) Traditional knowledge systems of India and Srilanka, Pp. 91-93	

13	Krishna Rao, S.V. and Veena T.	2007	Detecting early pregnancy in cows	Pashudhan, 33: May, pp. 1.	Veterinary College, Hebbal Bangalore
14	Santhosh A.K and S.Isloor	-	Studies on seroprevalence of <i>peste des petits</i> ruminants in organised and unorganised sectors.	Accepted for publi. in IVJ (No. 76/08)	
15	Rajiv, K. and Isloor, S.	-	Characterisation of bacterial pathogens from clinical & sub clinical cases of bovine mastitis with special reference to <i>S. Aureus</i> and <i>E.coli</i>	Accepted for publi. in IVJ (No. 204/08)	
16	A.S. Agasthya and S. Isloor	2008	Serological study on prevalence of human brucellosis in Karnataka.	Asian Jr. of Microbiol. Biotech. Env. Sc. Vol.10, No.(2) : 2008 : 399-404	
17	D.Rathnam and B.E.Shambulingappa		Studies on antibiogram profiles of the bacterial isolates in reproductive disorders of bitches	Accepted for publication in Mysore Journal of Agricultural Sciences	
18	M. V Santhosh, L. Ranganath and Shakaregowda	2007	Studies on influence of polypropylene mesh and nylon mesh on hematological & biochemical parameters during umbilical hernioplasty in calves	Indian J. Vet. Surg. 28 (1): 20-22	
19	A. M. Mahendra, L. Ranganath and M. S. Vasanth	2007	Effect of Polymethyle methacrylate in femoral fracture repair on Haemato Biochemical Parameters in Dogs	Indian Vet J.: 84:587-589	
20	Lingappa, L. Ranganath, Suthanthira and Sentil selva Kumar	2007	Comparative studies on changes in C-reactive protein, serum cortisol, blood glucose & aspartate amino transferase level following left flank method and laporoscopic method of ovari hysterectomy in bitches	VETERINARSKI ARHIV 77(6): 523-529	
21	Sentil selva Kumar, L.Ranganath, M.S.Vasanth and R. Vijayaraghavan	2007	Laparoscopic ovari hysterectomy in bitches	Indian J.Vet.Surg, 28(2): 110-112	
22	S. Umashankar, L. Ranganath, R.Nagaraja and M. S. Vasanth	2007	Osteomedullographic studies in tibial fracture healing in dogs	Indian J. Vet, Surg, 28(2): 104-106	
23	S, Senthil Selvakumar, L. Ranganath M. Devaraj and R. Nagaraja	2008	Comparison of Conventional and Laparoscopic methods of Ovari hysterctomy in Bitches	Indian Vet, J., 85:268-269	



24	Suma, N, B.S.V. Reddy, R.G.Glori Doss, Rajeswara Rao Chandrapal Singh, K Rekha, M.T., Amitha R. Gomes	2007	Egg quality traits of layers influenced by supplementation of different levels of sugarcane press residue	International Journal of Poultry Science 6 (2): 102-106	
25	Nandi S & Girish Kumar V	2008	Effect of co-culture with a dominant follicle on growth of preantral and small antral follicles in sheep & buffalo	IVJ:85(6): 611-612	
26	Ramesh, H.S and Girish Kumar.V	2008	Isolation and preservation of buffalo and ovine preantral follicles	IVJ: 85(6): 689-690	
27	Nandi.S and Girish Kumar. V	2008	Effect of breeding seasons and presence of a dominant follicle on quality of buffalo and sheep oocyte	IVJ: 85(3): 270-272	
28	Nandi S, Girish Kumar, V, Manjunatha, B. M. and Gupta, PSP	2007	Biochemical composition of ovine follicular fluid in relation to follicle size.	Development, Growth and Differentiation. 49: 61-66	
29	Girish Kumar, V	2007	Effect of onion ( <i>allium cepa linn.</i> ) and garlic ( <i>allium sativum linn.</i> ) Egg yolk lipid profile in japanese quail	Ind. J. Poul. Sci., 42(2): 218-220	
30	Ramesh, H.S., Ravindra, JP, Gupta, PSP, Girish Kumar,V	2007	Effect of individual/group culture on in-vitro development of buffalo preantral follicles	Indian J. of Ani. Sci., 77(10): 791-730.	
31	Sunita Awate., Girish Kumar, V. and Nandi, S	2007	Neuoplasticity:an overview	Asian Science., 2(2): 6-9.	
32	Nandi S, Ramesh HS, Gupta, PSP and Girish Kumar, V	2007	Development and regulation of mammalian ovarian follicles and oocytes.	Embryo talk 2(1): 20 IVJ 61:127-129	
33	Dr N B Shridhar	2007-08	Toxicity study of bamboo shoot in calves		
34	do	do	Toxicity studies of <i>Mimosa invisa</i> in rat, rabbit and guinea pigs	Accepted for publication in IVJ	
35	do		Feed - induced dermatosis in cattle and buffaloes of Karnataka	Accepted for publication in IVJ	
36	do		Toxicity studies of <i>Cassia spectabilis</i> DC in cross-bred male cow calves	Accepted for publication in IVJ	
37	Sahadev A	2007	Effect of immuno modulators in endometritis in cows	IVJ, 84: 715-718	
38	Dr. K.C. Veeranna,	2008	An action oriented approach for dissemination of knowledge on scientific Bidari goat rearing practices	Proceedings of the National Seminar held on 24 <sup>th</sup> Jan. 2008,	Veterinary College, Bidar

Veterinary College, Hebbal Bangalore

			among livestock interest Groups	Pg. No. 65-69	
39	Dr. J.A. Shilpa,	2007	Efficacy of feeding <i>Lactobacillus acidophilus</i> & <i>sacchromyces cerevisiae</i> 1026 on performance of broilers	Indian J. Poult. 42 (1) : 89-91	
40	Dr. N.V.Jadhav,	2007	Traditional V/S herbal anti-coccidials in determining growth, performance & mortality in broilers ingested with coccidia	Procd. XXIV IPSACON, April, 2007	
41	Sanjay M. Bhalerao and S. Mallikarjunappa,	2008	Effect of feeding different varieties of Jowar ( <i>Sorghum bicolor</i> ) on meat characteristics in sheep.	Indian Veterinary Journal Accepted	
42	Gurpreet Singh, Shrikant Kulkarni and Rajvir Singh	2008	Effect of <i>Saccharomyces cerevisiae</i> (Yea Sacc <sup>1026</sup> ) supplementation on rumen profile in buffaloes	Indian Journal of Animal Science 78 (2): 172-174	
43	Manjinder Sharma, Rajvir Singh and Shrikant Kulkarni	2007	Exclusive feeding of rice straw and its impact on rumen metabolites in buffalo calves.	Indian Journal of Animal Physiology 2 (1): 1-4	
44	Gurpreet Singh, Rajvir Singh and Shrikant Kulkarni	2007	Effect of sainomycin supplementation on rumen profile in buffaloes.	Indian Journal of Animal Physiology 2 (1): 5-8	
45	M.Sharma, S.Kulkarni and R.V. Singh	2007	Trace mineral status in rumen liquor of rice straw fed buffaloes.	Indian Veterinary Journal 85 (3): 256-257	
46	S.B.Munoli and M.D.Suranagi	2007	Estimation of reliability for (k + 1) component lightly loaded standby system with single repair.	Commun. Statist., Theory Methoda" 36 (1) :193-202	
47	S.B.Munoli and M.D.Suranagi	2007	Estimation of system survival function with specified number of shocks.	Journal of probability and Statistical science: 5(1): 49-58	
48	S.B.Munoli and M.D.Suranagi	2007	Estimation of survival probability with specified number of shocks.	JP Journal of Biostatistics. 1(2): 197-204	
49	M.D.Suranagi and S.B.Munoli	2007	Estimation of system reliability in fatal and non-fatal shock models.	Assam Stasti Review, 21: 184-193	
50	Dr.B.Jagannatha Rao		Utilization of different levels of blood meal in broiler feed.	Indian veterinary Journal.	
51	Vivek R. Kasaraliker	2007	Alterations in rumen fluid and blood in acute ruminal acidosis of goats	Indian Journal of Veterinary Medicine 27(2): 111	
52	Dr. Budeppa		Screening SPM as a source of minerals	Accepted Indian Veterinary Journal	

Veterinary College,  
Bidar



53	Dr. M.K. Tandle	2008	Effect of hCG supplementation on Prog. Level and fertility in Deccani sheep	Ind. Vet. J. 85:26-27	
54	Dr. M.K. Tandle	2008	Induction of twinning using GnRH or hCG in Deccani Ewes	Ind. Vet. J. 85:143-144	
55	Dr. Sanjeevkumar Patil, Dr. Suresh S. Honnappagol	2008	Lecithin and Tris based new diluents on fertility of bull semen	Ind. Vet. J. 85 : 219 - 220	
56	Dr. B.V. Shivaprakash	2007	Prepartum udder oedema with bilateral upward fixation of Patefla	Ind. Vet. J. 84(8): 852-853	
57	Dr. Yuvraj Hegde, Dr. Dilipkumar, Dr. B.V. Shivaprakash and Dr. S.M. Usturge	2007	Comparative evaluation of DCP with PMMA plate for femur radius fracture in Dogs	Ind. J. Vet. Surgery 28(1): 1-5	
58	Pradeep Kumar	2008	Simultaneous detection of endosulfan and chloryrifos residues in buffalo meat by using HPLC	Analytical chemistry an Indian journal 7(2); 103-109	
59	Dr. Chidanandaiah	2008	Effect of Carboxymethylcellulose coating with preservatives on the quality of meat patties during refrigerated ( $4 \pm 1^\circ\text{C}$ ) Storage	Fleischwirtschaft-International 3:68-73	Veterinary College, Shimoga
60	Nair SS and M S Vasanth	2007	Gross Changes at the Surgical Site Following Cataract Surgery in Dogs	Indian Vet.J., 84:368-369	Veterinary College, Hassan
61	Nair,S.S and M.S.Vasanth	2007	Incidence of Cataract and Haematological Biochemical Changes During Lens Extraction in Dogs	Indian Vet.J., 84: 476-478	
62	Nair S.S and M.S Vasanth	2007	Changes in Intraocular Pressure Following Cataract Surgery In Dogs	Indian Vet. J. 84: 525-526	
63	George chandy, Dhanalakshmi, B N Nagaraja and M S Vasanth	2007	Intra-peritoneal macerated foetus in a dog	J.Vet Surg. 28(1): 53	
64	Mahendra A.M,Ranganath I, and M.S.Vasanth	2007	Effect of Polymethyl methacrylate in Femoral Fracture Repair on Hamato-Biochemical Parameters in Dogs	Indian Vet.J.; 84:587-589	
65	Dilip Kumar Das and M.S. Vasanth	2007	Haematological and Biochemical Changes in Xylazine and Ketamine Anaesthesia in Lions	Indian Vet. J., 84: 701-704	
66	George Chandy and M.S Vasanth	2007	A Novel Fixation Technique for Fracture of a Lumbar Vertebra in a Kitten	Indian Vet.J., 84:810-811	
67	Dilip Kumar Das and	2007	Xylazine-Ketamine	Indian Vet.J.,	

	M.S.Vasanth		Anaesthesia in Lions	84:1045-1047	
68	George Chandy and M S Vasanth	2007	Dorsal laminectomy and cross pinning of a fractured lumbar vertebra in a cat	Indian Vet.J. 84:1146-1147	Veterinary College, Hassan
69	George Chandy and M S Vasanth	2007	Spinal stapling and Dorsal laminectomy in a paraplegic greatdane dog-A case Report	J.indian vet. Assoc.5(1): 8-10	
70	Kathy Stone, Mahadev G.Bhat, Ramachandra Bhatta and Andrew Mathews	October 02, 2007)	Factors Influencing Community Participation in Mangrove Restoration : A Contingent Valuation Analysis.	Ocean & Coastal Management (in press Accepted)	College of Fisheries Mangalore
	Bhat M G and Ramachandra Bhatta	2007	Regional Economic Impacts of Limited Entry Fishery Management:An Application of Dynamic Input-Output Model"	Environment and Development Economics 11: 709-728. Marine Policy Vol 30 (3) May 237-248	
71	Mridula R.M., R.J. Katti and K.M.Rajesh	2007	Zooplankton biomass and composition in the Arabian Sea off Mangalore, South-West coast of India	Ecology, Environment and Conservation, 13 (3) : 623-628	
72.	Shankar R. Shivananda Murthy, H Prakash Pavadi and Thanuja K.	2007	Effect of betaine as feed attractant on growth, survival and feed utilization in Indian major carp, <i>Labeo rohita</i>	Israeli Journal of Aquaculture Bamidgheh, 60(2), 2008, 95-99	
73.	Prakash Pavadi, H S Murthy and R Shankar	2007	Enhancement of growth and survival of juvenile Freshwater prawn <i>Macrobrachium rosenbergii</i> through use of feed Attractant	The Seventh Indian forum proceedings, published by AFSIB, ICAR	
74.	Pengli, Gray Bur, Qin Wena, Jonathan B. Golfa, H Shivananda Murthy and Delbert Gatlin	2008	Dietary sufficiency of sulfur amino acid compounds Influences plasma ascorbic acid concentrations and live peroxidation of juvenile Hybrid striped bass ( <i>Moronechrysops X M. saxatilis</i> )	Aquaculture 2008, 11/4	
75	Manja Naik, S. Benakappa, K.M.Rajesh and R.M., Mridula	2007	Seasonal abundance of commercially important penaeid shrimp seeds in the Mulky estuary, South West coast of India	Indian J. Fish (In press)	
76	Manja Naik, S. Benakappa, K.M.Rajesh and R.M., Mridula	2008	Mangrove fringed brackish water ecosystem, an entrapped resource for shrimp fry-a case study	The Royal Veterinary Journal of India (In press)	
77	R. Nagaratna, S. Benkappa, H.N.Anjanyappa and M.U.Shivappa	2008	Length-weight relationship and condition factor of <i>Saurida gracilus</i> (Quoy and Gaimard) from Mangalore coast	Environment and Ecology 26 (2) : 640-642	



78	H.N.Anjanyappa, S.M.Shivaprakash, S.Benkappa,S.R.Somashekara, C.H. Krsihna Bhat and M.U.Shivappa	2008	Food and feeding habits of mullet, <i>Liza macrolepis</i> (Smith) from Mangalore region	Environment And Ecology 26(2) : 584-587	College of Fisheries, Mangalore
79	PK.Binsi, B.A Shamasundar and AO Dileep	2007	Physicochemical and functional properties of proteins from green mussel ( <i>Perna viridis</i> ) during ice storage	Journal of Science of Food and Agriculture 87 : 245-254	
80	PK.Binsi, B.A Shamasundar and AO Dileep, Faraha Badii and Nazlin Howell	2008	Rheological and functional properties of gelatin from the skin of bigeye snapper ( <i>Priacanthus hamrur</i> ) : influence of gelatin on gel forming ability of fish mince	Food Hydrocolloids. 23, 21-35.	
81	Raja reddy etal	2008	1 department for WS virus	DAO 79 (157)	
82	Babu etal	2008	Igm of carps	FS immunal 24 779-783	
83	Dr. Mohan. P	In Press	Effect of Inj. Prostaglandin F2 & on certain biochemical parameters with treatment of open Type pyometre in canines.	I. V. J.	LRIC, Nagamangala
84	Dr. Mohan. P	In Press	Effect of in prostaglandin F2 & on certain hematological parameters with treatment of open type pyometre in canines.	I. V. J.	
85	Dr. Naveen Kumar, S	2008	Phenotypic characterization & performance evaluation of Hallikar cattle in its native tract	Indian Journal of Animal Sciences 78(2):211 - 214, Feb 2008	
86	Basavaraju Y,Theertha Prasad, D. Kumuda Rani, Pradeep Kumar, S., Umsha, D., S.Jahageerdar, FRIC, Banghaore	2007	Genetic diversity in common carp stocks assaying RAPD Markers	Aquaculture Research, © Blackwell publication, 38:147-151	
87	Comparative sequence analysis of B2R gene of buffalo pox virus with other orthopox viruses. (2007).Singh R.K., Hosamani M., De U.K., Chandra Naik B.M, Krishnappa.G. and Yadav, M.P. Acta virologica.51.47-50				IAH & VB Bangalore
88	Isolation of Asia -1 FMD virus from an outbreak in Karnataka. (2007). Chandra Naik,IAH & VB,V.R.Girish, Harish, B.R, Ravindra Hegde., Renukprasad C and Krishnappa G. Indian Bangalore Veterinary Journal.84(4).434-35				
89	Concurrent occurrence of PPR and Blue tongue in migratory sheep flock in Karnataka. (2007). Harish, B.R,Chandranai, B.M Venkatesh, M.D,Byregowda and Ravindra Hegde And Renukprasad. Indian Veterinary Journal 84(8). 798-800				
90	A study on normal hematology in Lions ( <i>Panthera leo</i> ) (2008) Chandranai, B.M shashidhar bellary , Vishwanath. Girichar.P. Renukprasad.C and Krishnappa, G. Indian Veterinary Journal .85(2)				

91	Report on gastritis and intestinal perforation in a captive python. B.M.Chandranaiik, Shashidar ballari, G.K.Vishwanath., P Giridhar, C. Renukprasad and G.Krishnappa. Indian Veterinary Journal. 85(6)	IAH & VB Bangalore
92	Foot and Mouth Disease in Swine : Investigation of outbreaks and virus isolation studies. Chandra Naik, B.M, Harish, B.R, Raveendra hegde., Shivaraj, Sridhar, B.Y, Amitha R. Gomes., Asha Mayanna, P.Giridhar and C.Renukprasad. Indian Veterinary Journal (in press)	
93	A cross sectional study on Tetanus outbreaks after ear tagging in sheep. Chandra Naik, B.M, Harish, B. R, Shivaraj., Asha Mayanna, , P.Giridhar and C.Renukprasad. Indian Veterinary Journal (in press)	
94	Epidemiology of PPR in Karnataka. Harish, B.R., Chandranaiik, B. M.Shivaraj, Venkatesh, M.D and Renukprasad. C, Ind.Vet.J (in press)	
95	Isolation of BHV-1 from bovine semen and its identification by FAT, PCR and EM studies. Chandranaiik, B.M, Krishnappa G.Harish, B.R., Shivaraj, Venkatesh, M.D & Renukprasad C, Indian journal of Animal sciences (in press)	
96	Studies on hemorrhagic septicemia in Elephants. Harish, B.R Chandranaiik, B.M, Shivaraj., Venkatesha. M.D, Renukprasad C. and Krishnappa, G. Zoos print journal.(in press)	

### 5. Papers presented in National / International Symposia / Seminars

Sl.No.	Name of the author	Title of symposia / seminar Organiser	Institute
1	Placid E.D'Souza	Immunodiagnosis of Animal Parasitic Diseases -An Appraisal *National Conference on Parasitic Diseases-Emerging Parasitic Diseases and their control in the New Millennium on April 13-15 2007 at Rajiv Gandhi University of Health Sciences, Bangalore. p 5	Veterinary College, Hebbal, Bangalore
2	G.S Marnatha and Placid E.D'Souza,	Identification of Immunoreactive Peptides on Sarcocystic Species of Cattle By Enzyme ImmunoTransfer Blot (EITB) *National Conference on Parasitic Diseases-Emerging Parasitic Diseases and their control in the New Millennium on April 13-15 2007 at Rajiv Gandhi University of Health Sciences, Bangalore. p 53	
3	Prathiush, P.R., Placid E.D'Souza, & Ananda K. J	CIEP as a diagnostic tool for coproantigen detection of <i>Echinococcus granulosus</i> infection in dogs. *National Conference on Parasitic Diseases-Emerging Parasitic Diseases and their control in the New Millennium on April 13-15 2007 at Rajiv Gandhi University of Health Sciences, Bangalore. p 53	
4	Placid E.D.Souza	Cysticercosis an old but persistent helminthosis in animals and man. Tropacon CME programme, Madras Medical College. October 5.	
5	Rekha H.K.M., Puttalakshamma G.C., Placid E.D.Souza and Ananda K.J. 2007	The prevalence studies on Cryptosporidiosis in bovines. 6 <sup>th</sup> . Annual Conference of IAVPHS & National Symposium on "Horizons of Veterinary Public Health in Augmenting Veterinary, Medical and Environmental health" at Anand Agricultural University, Anand , Nov 29 <sup>th</sup> & 30 <sup>th</sup> . A 7.4 , p 290 - 291	
6	Placid E.D.Souza	Immunodiagnostic tests in parasitology with special reference to Cysticercosis. Guest lecture at the Vth.National Workshop on "Simple diagnostic methods in Clinical Microbiology" at the Dept. of Microbiology, JIPMER, Pondicherry on December 1	



7	T.S.Dayananda and Suguna Rao	Comprehensive study on proliferation index of skin & subcutaneous tissue Tumours in dogs	XXIV Annual Conference of Veterinary Pathologists and National symposium on Immunopathological	Organized by Dept. of Veterinary Pathology, Sri Venkateshwara Veterinary University, Tirupati, 1st-3rd Oct, 2007	Veterinary College, Hebbal, Bangalore
8	Jayachandra K.C. and Suguna Rao	Evaluation of prognostic factors of canine Mammary gland tumours	& molecular approaches for disease diagnosis in livestock and poultry		
9	Jayachandra K.C., and Suguna Rao	Determination of proliferative status of canine mammary tumours by	-do-	-do-	
10	Mohan M.S, Gajendragad M.R, Gopala Krishna S, and Suguna Rao	Ki67 and AgNOR indices Progressive gross and histopathological changes of experimental Foot and	-do-	-do-	
11	Jyothilakshmi and M.L.Satyanarayana	Mouth disease in cattle. Biochemical and pathological effects of T-2 toxin in broiler chicken	-do-	-do-	
12	Jyothilakshmi and M.L.Satyanarayana	Experimental T-2 toxicosis and its amelioration using herbal oil in broiler chicken.	-do-	-do-	
13	S.R.Krupesh Sharma, K.M.Shankar and M.L.Satyanarayana	Effects of biofilm of <i>Vibrio alginolyticus</i> on resistance to WSSV and pathogenic <i>Vibrio alginolyticus</i> infection in Giant Tiger shrimp <i>Penaeus monodon</i>	-do-	-do-	
14	K.Veena, N.B.Shridhar, V.B.Siddaraju, Suguna Rao	Toxicity studies of fungal isolates from paddy straw in Wistar albino rats	XXVII Annual conference of society of toxicology, of Toxicology, Indian (STOX) and International	Diplomate of American Board (DABT)	
15	K.Veena N.B.Shridhar, C.M.Jouher Sulthana, Suguna Rao	Toxicity study of <i>Aspergillus niger</i> culture filtrate isolated from paddy straw in Wistar albino rats	workshop on Toxicology towards Diplomate of American Board of Toxicology (DABT)		
16	Viny.Tikare, N.B.Shridhar, K.Mohan, Indu Tripathi and Suguna Rao	Toxicity studies of <i>Fusarium xyariodes</i> infected wheat isolated from groundnut hay in rats	-do-	-do-	
17	K.Veena, N.B.Shridhar and Suguna Rao	Subchronic toxicity study of <i>Penicillium aurantiogriseum</i> culture filtrate from paddy straw in Swiss Albino mice.	-do-	-do-	
18	Kavitha Rani B	Clinical Case Report A case of Cardiac Mural Abscess in Bovine	IX National Technical Seminar of the IALV, Jan 24-25 <sup>th</sup> , 2008.	IALV & Veterinary College, Bangalore	
19	Suguna Rao	Cytological evaluation of squamous cell carcinoma in dogs	-do-	-do-	

20	Suguna Rao	Pathomorphological changes in a case of pulmonary tuberculosis in a Sloth bear ( <i>Melursus ursinus</i> )	National Seminar on Advances in Management and diseases of wild animals 20 <sup>th</sup> -21 <sup>st</sup> June, 08	Dept of Preventive Medicine & Vety College, Bangalore	Veterinary College, Hebbal, Bangalore
21	M L Satyanarayana	Pleurapneumonia in a captive lioness			
22	Nirmala G C, T. Veena K S Mohan, M S Jyothi & K N Pavankumar,	Effect of Oestrogen and Progesterone on seed germination.	Role of Women Veterinarians in augmenting rural economy through Animal Husbandry, 2008	Indian Association of Lady Veterinarians	
23	Veena T.	Pan Beeda Culture in Taiwan.	Emerging Trends: Some reflection and new dimensions in Veterinary Science and Animal Husbandry Practices	College of Veterinary Science and Animal Husbandry, Raipur	
24	Hanamanta Nyamagonda, Narayan Swamy, M, Veena T., H.D.Narayana Swamy, Jaya Kumar, K.	Effect of Prebiotic, probiotic, their combination and G-Probiotic on immune response in broiler Chickens.	Role of Women Veterinarians in augmenting rural economy through Animal Husbandry, 2008	Indian Association of Lady Veterinarians	
25	C.Shrinivasu and D.Rathnamma	Application of enolase-Foot and Mouth Disease viral antigen fusion protein as mucosal vaccine	IX National Technical Seminar & annual convention on "Role of Women Veterinarians in augmenting rural economy through Animal Husbandry"	IALV-KC and Veterinary College, Bangalore, KVAFSU campus, Hebbal, Bangalore during 24 <sup>th</sup> & 25 <sup>th</sup> 2008	
26	C.D.Dharanesh, B.M.Veeregowda et al	Standardization of indirect elisa for Seroprevalence of canine Leptospirosis	-do-	IALV-KC and Veterinary College, Bangalore, KVAFSU campus, Hebbal, Bangalore, 2008	
27	Sumathi, B.R., S.Isloor	Antigenic characterisation of <i>Escherichia coli</i> from bovine mastitis with reference to biofilms	-do-	IALV-KC and Veterinary College, Bangalore, KVAFSU campus, Hebbal Bangalore during 24 <sup>th</sup> and 25 <sup>th</sup> 2008	
28	Rajeev, N.K., S.Isloor	Dendrogram based analysis of antibiogram profile of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> isolates from bovine mastitis cases	National Symposium on Animal Biotechnology November 2007	NIANP, Adugodi Bangalore on 16 <sup>th</sup>	
29	Vivek Prabhu and S.Isloor	ERIC-PCR of <i>E.coli</i> isolates of Bovine mastitis cases	National Symposium on Animal Biotechnology	NIANP, Adugodi Bangalore on 16 <sup>th</sup> November, 2007	



30	Vivek Prabhu and S.Isloor	Application of Multiplex PCR in detection of virulence genes in <i>E.coli</i> isolates of bovine mastitis	Annual Convention of ISMB and National Symposium on "Recent trends in Immuno-Biotechnology Based Biologicals & their Commercialization"	Dept.of Biochemistry and Microbiology, College of Veterinary&Animal Sciences, GB Pant University of Agricultural and Animal Sciences, Pantanagar, Uttarkhand during 27 <sup>th</sup> -29 <sup>th</sup> Feb, 2008	Veterinary College, Hebbal, Bangalore
31	Vivek Prabhu and S.Isloor	SDS-PAGE profile of OMPs from <i>E.coli</i> grown under planktonic & biofilm mode	-do-	-do-	
32	L. Ranganath	Comparison of Type 1a and 1b external skeletal fixation for tibial fracture repair in dogs	XXXI Annual Congress of Indian Society for Veterinary Surgery & National Symposium on Rehabilitation of Veterinary Surgical Patients	Division of Veterinary Surgery & Radiology Faculty of Veterinary Sciences & Animal Husbandry Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu R.S. Pura, Jammu	
33	L. Ranganath	Haemato-biochemical changes following External Skeletal fixation for tibial fracture repair in dogs	-do-	-do-	
34	L. Ranganath	A. Surgery of fracture in Dogs	-do-	-do-	
35	L. Ranganath	Oesophageal achalasia in a Golden Retriever: A case Report	-do-	-do-	
36	L. Ranganath	Aden carcinoma in a Leopard: A case report	-do-	-do-	
37	L. Ranganath	Ovariectomy in two jackals	-do-	-do-	
38	L. Ranganath	Radiographic observations on tibial fracture healing following External Skeletal fixation in dogs	-do-	-do-	
39	U. Krishnamoorthy K. Chandrapal Singh	Microbial Feed Additives in Pigs and Poultry	National Workshop on status and Perspective of Biotechnology in Animal Feeds & Feeding	Indian Veterinary Research Institute & Animal Nutrition Association March 11-12, 2008	

40	Girish Kumar, V et al.,	Effect of Onion ( <i>Allium cepa linn.</i> ) and garlic ( <i>Allium sativum linn.</i> ) On plasma phospholipid content in japanese quail ( <i>Coturnix coturnix japonicum</i> )	Advances in management and diseases of wild animals : 20 & 21 June, 2008	Veterinary College, Bangalore	
41	Veena, M.P., Girish Kumar,V and Gupta, P.S.P	Relationship of blood parameters with the postpartum reproductive efficiency in crossbred cattle	IX National Technical Seminar on "Role of women veterinarians in augmenting rural economy through Animal Husbandry"	Annual Conventior of IALV, and Veterinary College, Hebbal	
42	Veena, M.P., Girish Kumar,V and Gupta, P.S.P	Relation of milk parameters with exhibition of first postpartum heat in crossbred cattle	-do-	-do-	
43	Veena, M.P., Girish Kumar,V and Gupta, P.S.P	Effect of body conditions score on postpartum reproductive efficiency in crossbred cattle	-do-	-do-	
44	Nandi.S., Girish Kumar .V & Manjunath, B.M	Metabolite, electrolyte & enzymatic composition of bubaline follicular fluid	40 <sup>th</sup> Annual meeting of the Society for study of Reproduction on 21 <sup>st</sup> to 25 <sup>th</sup> July, 2007	San Antonio, Texas, USA	
45	Girish Kumar .V	Global Warming	Annual NSS camp 3 <sup>rd</sup> May, 2007	Veterinary College, Hebbal	Veterinary College, Hebbal, Bangalore
46	Dr N B Shridhar	Acute oral toxicity study of <i>Ficus tsjahela latex</i> in rats	Recent trends in toxicology 2007	Society of Toxicology, India & Department of Pharmacology & Toxicology 2007	
47		An episode of acute toxicity of <i>Echinocloa colona</i> in cattle	-do-	-do-	
48		Toxicity studies of <i>Mimosa pudica</i> in calves	-do-	-do-	
49	Sudha G	GnRH-A Veterinary Application	ISSAR Practical approaches to infertility in livestock and Companion animals	ISSAR	
50	Manjunatha .B.M.	Systematic breeding programs for dairy cattle and buffaloes	ISSAR Practical approaches to infertility in livestock and companion animals	ISSAR	
51	Kiren Menon	COD-In HF crossbred cow	ISSAR Practical approaches to infertility in livestock and companion animals	ISSAR	
52	Renukardhya G.J.	Antiprogesterin therapy for treatment of closed pyometra in a bitch	ISSAR Practical approaches to infertility in livestock & companion Animals	ISSAR	



53	Narasimhamurthy	Uterine torsion in a cross bred cow	ISSAR Practical approaches to infertility in livestock and companion animals	ISSAR	
54	R.V. Prasad	Studies on morphology and cytoarchitecture of reticular formation of medulla oblongata in buffalo (Bubalus bubalis)	Recent Advances in Anatomy of the Domestic animals with special reference to of Developmental Anatomy and XXII Annual Convention of IAVA 21-23 <sup>rd</sup> November, 2007	Department of Anatomy and Histology, College Veterinary sciences, Sri Venkateswara Veterinary university Tirupathi	
55	Dr.H.A.Upendra	Critical care & emergency medicine	5 <sup>th</sup> convention of ISACP on changing Horizons in Companion Animals	ISACP & Veterinary College, Chennai	
56	Dr.S.Yathiraj	Canine Medicine	5 <sup>th</sup> convention of ISACP on changing Horizons in Companion Animals	Dept. of Clinics, Madras Veterinary College, Tamilnadu Veterinary and Animal Sciences University, Chennai 7 <sup>th</sup> to 9 <sup>th</sup> February, 2008	
57	H.A.Upendra, S. Yathiraj and A.Muralidhara	Studies on Ascites Mortality in Broiler Chicken	National Symposium on "Emerging Challenges & Strategies for Disease & Health Management of Livestock, Pet & Zoo Animals", XXVI Annual Convention of the Indian Society for Veterinary Medicine	Dept. of Veterinary Medicine, College of Veterinary Science and Animal Husbandry, Birsa Agricultural University, Kanke, Ranchi (Jharkhand) 26 <sup>th</sup> -28 <sup>th</sup> February, 2008	Veterinary College, Hebbal, Bangalore
58	Rashmi, K.M, A.Muralidhara, S.A.Shahid Vaseem, Gaurav Kumar, P.M.Stanikza and S. Yathiraj	Incidence of Theileriosis in Cattle in Bangalore	-do-	-do-	
59	Gaurav Kumar, P.M.Stanikza, H.A.Upendra, S. Yathiraj	Treatment of Indigestion in Ruminants.	-do-	-do-	
60	Peer Mohammad Stanikza, C.A.Kamran, Gaurav Kumar, S.A.Shahid Vaseem and S. Yathiraj	Poisoning of Dogs with Organophosphorus	-do-	-do-	
61	S.A.Shahid Vaseem, S.Yathiraj & H.A.Upendra	Flea Bite Allergy and Therapeutic Measures	-do-	-do-	
62	Nelson M.Mathew, Jouher Sulthana, C.M., Yathiraj, S, Muralidhara, A., Upendra, H.A. And Deepti, B.R.	Study on Thyroid Hormone concentrations and ECG picture in Dogs.	-do-	-do-	
63	S.A.Shahid Vaseem, S.Yathiraj & H.A.Upendra	Cytotoxicosis in a Non-Descriptive Cat-A Rare Case Report	-do-	-do-	
64	S.A.Shahid Vaseem, S.Yathiraj and C.Ansar Kamran	Iatrogenic Cushing's Disease in a Pomeranian Dog: A Rare Case Report	-do-	-do-	

65	S.A. Shahid Vaseem, S. Yathiraj, C. Ansar Kamran and K.M. Rashmi	Lymphosarcoma in a Doberman Dog A Case Report	-do-	-do-	Veterinary College, Hebbal, Bangalore
66	S.A. Shahid Vaseem, S. Yathiraj & Gaurav Kumar	Feline Eosinophilic Granuloma in a Cross Bred Cat: A Rare Case Report	-do-	-do-	
67	S.A. Shahid Vaseem, S. Yathiraj, A. Muralidhara and M. Narayana Bhal	Incidence of Leptospirosis in Dogs presented at Veterinary College Hospital A Retrospective Study	-do-	-do-	
68	Jouher Sulthana, C.M., Narayana Bhat, M., Yathiraj, S.	Prevalence of Gastrointestinal Parasites in Captive Wild Birds at Zoological Gardens, Karnataka	-do-	-do-	
69	Jouher Sulthana, C.M., Narayana Bhat, M., Yathiraj, S.	Sero-prevalence of Newcastle Disease, Infectious Bursal Disease, Infectious Bronchitis and Salmonellosis among Captive Birds in Karnataka State	-do-	-do-	
70	Jouher Sulthana, C.M., Narayana Bhat, M., Yathiraj, S.	Biochemical Values in Captive Wild Birds in Karnataka	-do-	-do-	
71	S.A. Shahid Vaseem, S. Yathiraj & A. Muralidhara	Therapy for Ehrlichiosis in Dogs.	-do-	-do-	
72	Yathiraj. S.	Nutritional Management of Renal and Hepatic Disorders in Dogs	PACE Award Ceremony Pet Care	Hyderabad, 13 <sup>th</sup> April 2008	
73	S. Yathiraj	Canine Medicine	SAARC Congress on Canine Practice and Fifth Annual Convention of Indian Society for Advancement of Canine Practice on "Changing Horizons in Companion Animal Health Care Evolving Strategies with Global Perspectives	Indian Society for Advancement of Canine Practice 7 <sup>th</sup> to 9 <sup>th</sup> February 2008	
74	S. Yathiraj	Scenario & Issues related to Small Animal Practice in India	IX National Technical Seminar on "Role of Women Veterinarians in Augmenting Rural Economy through Animal Husbandry and Annual Convention of IALV	Indian Association of Lady Veterinary (IALV) (Karnataka Chapter) and Veterinary College Bangalore 24 <sup>th</sup> & 25 <sup>th</sup> January 2008	
75	S. Yathiraj	Canine Medicine	Annual Convention of the Indian Society for Advancement of Canine Practice (ISCAP), on	Dept. of Clinics, Madras Veterinary College, Tamilnadu Veterinary and	



			"Changing Horizons in Companion Animal Health Care: Evolving Strategies with Global Perspective"	Animal Sciences University, Chennai 7 <sup>th</sup> to 9 <sup>th</sup> February 2008	Veterinary College, Hebbal, Bangalore
76	S. Yathiraj	Challenges in Pet Animal Practice: Asian Scenario	15 <sup>th</sup> CVA Asian Regional Meeting, Conference & Workshop on Concepts in Animal Welfare	Common Wealth Association 22 <sup>nd</sup> -24 <sup>th</sup> February 2008	
77	Dr. K.C. Veeranna	An action oriented approach for dissemination of knowledge on scientific Bidari goat rearing practices among livestock interest Groups	National Seminar on Problems and Prospects in Knowledge dissemination on Livestock Rearing among Women Self Help Groups	College of Veterinary Sciences, Hyderabad	Veterinary College Bidar
78	Dr. K.C. Veeranna	Need Assessment of Vety. & A.H. Extension Departments	Improving quality of Veterinary Extension Education	College of Vety. & Animal Science, Pookot, Kerala	
79	Dr. K.C. Veeranna	Quality & impact of Self Help Group movement in Bidar District	Livestock and Poverty Alleviation among Women Self Help Groups	RAGHOCOVAS, Pondicherry	
80	VijayKumar.M, Prakash.N., U.Sunilchandra & Pawar Ashok	Evaluation of toxic potential of Cypermethrin with special reference to testicular toxicity in albino Mice	XXVII Annual conference of Society of toxicology, October 6 <sup>th</sup> -7 <sup>th</sup> , Bengaluru	Society of toxicology	
81	VijayKumar M., Prakash,N., Sunilchandra.U, Pavithra B.H, Nirmala G.C, and Ashok Pawar	Effect of dietary supplementation of Curcumin on toxicopathology of aflatoxicosis in laboratory mice	Second national conference on Current perspectives and future challenges in laboratory animal management, December 29-30 <sup>th</sup> , Bengaluru	LASA(Laboratory animals scientists association), Bengaluru	
82	M.M.Appannavar B.Ramachandra Ashok Pawar G.S.Naveen Kumar	Study on meat characteristics of Kenguri breed of sheep	National Symposium on Redefining role of indigenous animal genetic resources in Rural Development	KVAFSU and SOCDAB	
83	G.S.Naveen Kumar, M.D.Suranagi and M.M.Appannavar	Awareness and Milk Production Performance of Colored Bidri strain of Goat in Bidar	National Symposium on Redefining role of indigenous animal genetic resources in rural Development	KVAFSU and SOCDAB	
84	N.A.Patil	Lactate utilization by <i>Megasphaera elsidini</i> in acidotic buffaloes	XXVI Annual convention of Indian Society for Veterinary Medicine 2008	Dept.of Veterinary Medicine, Ranchi Vety. College, Kanke, Ranchi (Jharkhand)	
85	Vivek R. Kasaraliker	Comparison of improved and conventional therapy in clinical cases of acute ruminal acidosis in goats	XXVI Annual convention of Indian Society for Veterinary Medicine 2008	Dept.of Veterinary Medicine, Ranchi Vety. College, Kanke, Ranchi (Jharkhand)	

86	Vivek R. Kasaraliker	Atypical case of Ehrlichiosis in a dog. A case report	XXVI Annual convention of Indian Society for Veterinary Medicine 2008	Dept. of Veterinary Medicine, Ranchi Veterinary College, Kanke, Ranchi (Jharkhand)	Veterinary College Bidar
87	Santosh P. Sarangmath	Prevalence of parasitic enteritis in small ruminants of Bidar. A preliminary study	XXVI Annual convention of Indian Society for Veterinary Medicine 2008	Dept. of Veterinary Medicine, Ranchi Veterinary College, Kanke, Ranchi (Jharkhand)	
88	Santosh Sarangmath	Prevalence of asymptomatic carriage of <i>M. canis</i> in stray cats of Bangalore	Hong Kong World Congress of Veterinary Dermatology conference 2008	Hong Kong Veterinary Association and Asian Society of Veterinary Dermatology	
89	Dr. Ravindra Bhojar	Efficacy of Neomec (Ivermectin) against Notodectic mange infection in Rabbits	National symposium on 'Emerging challenges & strategies for disease & health management of livestock, pet and zoo animals' held from 26 to 28 Feb-2008.	Dept. of Medicine, Ranchi Veterinary College, Ranchi	
90	Dr. Ravindra Bhojar	Survival study of <i>Culicoides</i> midges			
91	Dr. Mahesh S. Doddamani, Dr. Suresh S. Honnappagol, and Dr. M.K. Tandle	Effects of GnRH hormone on conception of RB Deoni cows	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
92	Dr. M.K. Tandle, Dr. Suresh S. Honnappagol, Dr. N. Prakash,	Induction of twinning using GnRH or hCG in Deccani ewes	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
93	M.S. Ganganalli, Dr. M.K. Tandle, Dr. R.G. Bijurkar and Dr. Suresh S. Honnappagol	Efficacy of estrus synchronization and administration of Buserrelling in delayed ovulation in HF X cows	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
94	Padmavati F. Doddamani and Dr. Suresh S. Honnappagol	Hormonal approaches to therapeutic management of RB cross bred cows	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
95	Arunsingh H. Paradeshi And Dr. Suresh S. Honnappagol	Therapeutic efficacy of herbal uterine cleanser & restorative tonic for the management of RB cows	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
96	Dr. S.D. Sonawane, Dr. Suresh S. Honnappagol, Dr. M.K. Tandle,	Studies on retention of placenta in rd buffaloes in Bidar dist. Using bofi Involon	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
97	Dr. R.B. Dhabake and Dr. Venugopal Naidu	Body wt., scrotal circumferences and testicular morphology of non-hormonal and hormonal	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	



		treated Bidri male kids during post natal period			
98	Dr. R. G. Bijurkar, Dr. Anilkumar K. , Dr. Venkatachalpati, J. N.	Ventral hernia in a crossbred HF cow A case repeat	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
99	Dr. R. G. Bijurkar, Dr. Anilkumar K. , Dr. V Narasimhamurthy	A case of Shistosoma reflexus in a HF crossbred cow	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
100	Shrajamad D. Awati, Dr. Suresh S. Ionnappagol	XXIII Annual convention of ISSAR and National Cows symposium, 7-9 Dec. 2007	Therapeutic efficacy of poly herbal uterine tonic & ectolic in post partum	OUAT, Bhubaneswar	
101	Dr. Yuvraj Hegde, Dr. D. Dilipkumar and Dr. R. G. Bijurkar,	Dystocia due to congenitally deformed pelvis and straight hind limbs in an Alsbian bitch- A case report	XXIII Annual convention of ISSAR and National symposium, 7-9 Dec. 2007	OUAT, Bhubaneswar	
102	Dr.D. Dilipkumar, Dr. B. V. Shivaprakash and Dr. S. M. Usturge	Evaluation of horn cancer by ultrasound and radiography	31 <sup>st</sup> Nati.l Symposium of ISVS	Sheer-E-Kashmir Univ. of agri. & bTechnology, Jammu	Veterinary College Bidar
103	Dr. D. Dilipkumar, Dr. B. V. Shivaprakash and Dr. S. M. Usturge	Peotomy fro the cases affected with necrotic balanoposthitis and concurrent urolithiasis	31 <sup>st</sup> Nati.l Symposium of ISVS	Sheer-E-Kashmir Univ. of agri. & bTechnology, Jammu	
104	Dr.Ravi Raidurg and Dr. B. V. Shivaprakash	Traumatic ruminal fistula in a cow	31 <sup>st</sup> Nati.l Symposium of ISVS	Sheer-E-Kashmir Univ. of agri. & Btechnology, Jammu	
105	Dr.Ravi Raidurg	Managemental guidelines for control of abortion in a organized stud farm	V annual conference of ISSAR Karnataka Chapter, 7-03-08	Veterinary College, Bangalore	
106	Pradeep Kumar	Quantification of Endosulfan Residues in Buffalo Meat using High Performance Liquid Chromatography	VI Annual Conference of IAVPHS and National Symposium on "Horizons of Veterinary Public Health in Augmenting Veterinary, Medical and Environmental Health"	IAVPHS Indian Association of Veterinary Public Health Specialists	
107	B.H.Rudresh, V.B.Shettar, M.G.Gowindaiah	Indigenous Cattle and Buffalo Breeding Status & Future Outlook in Karnataka	National Symposium on "Recent Trends in Policy Initiatives & Technological Interventions for Rural Prosperity in Small Holder Livestock Production Systems"	College of Veterinary Science, Tirupati	Veterinary College, Shimoga
108	G.M. Satheesha, S.M. Byregouda, C.S.Nagaraja, M.R. Jayashankar, S.Nagaraju, V.B.Shettar	DNA finger printing method for forensic identification of big wild cat species	National Symposium on "Redefining the role of Indigenous Animal Genetic Resources in Rural Development"	Veterinary College, Bangalore, KVAFSU and SOCDAB	

109	Rudresh, B.H	Indigenous Cattle & Buffalo Breeding Status and Future Outlook in Karnataka	"Recent trends in Policy initiatives and Technological Interventions for Rural Prosperity in Small holder Livestock Production Systems"	Sri Venkateshwara Veterinary University, Tirupati.		
110	Manjunatha, L, M.R. Subhadra and P.J. Rajkamal.	Working environment of lady veterinary surgeons of AH Dept.of Kerala State.	Role of lady veterinarians in rural economy (Published as abstract) held on 24 <sup>th</sup> 25 <sup>th</sup> Jan. 2008 at Bangalore	Indian Lady Veterinarians Association		
111	Nagaraj M R, Nagaraj, Ranganath L and M S Vasanth	Clinical efficacy of halothane and Isoflurane in dogs	Paper presented in National symposium on rehabilitation of veterinary surgical patients held during 27 <sup>th</sup> to 29 <sup>th</sup> October 2007 at Jammu J&K State.		Veterinary College, Hassan	
112	Nagaraj M R, Nagaraj, Ranganath L and M S Vasanth	Post anesthetic recovery characteristics following halothane and isoflurane anesthesia in dogs				-do-
113	Nagaraj M R, Nagaraj, Ranganath L and M S Vasanth	Influence of halothane & isoflurane anesthesia on haematological and biochemical parameters in dogs undergoing Ovario-hysterectomy				-do-
114	Nagaraja B N, M S Vasanth and Narayan Bhat	Occurrence of traumatic posterior paralysis in dogs				-do-
115	Nagaraja B N, M S Vasanth and, S.Yathiraj	Comparative evaluation of medical management & spinal plating for traumatic posterior paralysis in dogs				-do-
116	Nagaraja B.N, M.S.Vasanth and Prasad R V	Bone plating for spinal fixation in dogs.				-do-
117	Nagaraja B N, M.S.Vasanth and L.Ranganath	Evaluation of spinal plating with or without dorsal laminectomy for traumatic posterior paralysis in dogs				-do-
118	Nagaraja B N, M S Vasanth and George Chandy	Clinical and neurological evaluation of dogs with traumatic posterior paralysis				-do-
119	Ranganath L, V Mahesh and M S Vasanth	Sertoli cell tumor of a cryptorchid testis in a dog- A case report				-do-
120	Mahesh V, Ranganath L and M S Vasanth	Osteosarcoma in three dogs a case report				-do-
121	Mahesh V, Ranganath L and M S Vasanth	Surgical management of intestinal obstruction caused by choke belt in a dog				-do-
122	Ranganath L, George Chandy gaurav Pardeshi	Cystic parotid gland in a crossbred dog				-do-



123	Gaurav Pardeshi, Ranganath L, T K Vani and M S Vasanth	Fibroma in a rabbit and its successful surgical treatment	Paper presented in National symposium on rehabilitation of veterinary surgical patients held during 27 <sup>th</sup> to 29 <sup>th</sup> October 2007 at Jammu, J&K State	
124	Gaurav Pardeshi, Ranganath L & M.S.Vasanth	Unilateral testicular teratome in a mongrel dog	-do-	
125	Gaurav Pardeshi, Ranganath L, Saiprakash	Fibrosarcoma in a cock: A case report.	-do-	
126	Nagaraja B N, M S Vasanth and George Chandu	Vulvo-vestibular stricture in a cow: A case report	-do-	
127	George Chandu and M S Vasanth	Epidural methylprednisolone acetate in paraplegic dogs	Paper presented at the first round table conference on diseases of companion animals and their emergency management. & 15 <sup>th</sup> annual conference of IAAVR during 22 <sup>nd</sup> to 24 <sup>th</sup> Feb. 2008 at Kolkata, WB State.	
128	Dr. M.S. Vasanth	Surgical oncology in canines"	The Canine surgery session of the SAARC Congress on canine practice and fifth convention of the ISACP held during 7 <sup>th</sup> to 9 <sup>th</sup> February 2008 at Chennai.	
131	Marjunatha H., R.Prabha and Ramachandra	'Consumer awareness with reference to safety of milk and milk products'	Safety assessment and consumer protection with reference to dairy and food industry	Dept.Dairy Science, Madras Veterinary College, TNVASU, Chennai-600 007 & Indian Institute of Public Administration, NewDelhi -110002
132	Dept. of F. Economics	"Assessment of Scope for the Development of Fishery Enterprises through Self-Help Groups In Coastal Karnataka"	The Second Annual Conference on Public Policy and Management, April 12 14, 2007,	Centre for Public Policy, Indian Institute of Management, Bangalore
133		Impact of globalization on fisheries sector ness for Globalization 9-10, August 2007	UNCTAD Meeting on the Strategies and Prepared	UNCTAD, New Delhi
134		Key note speaker on Overview of fish marketing in India and lead paper on Development of domestic fish marketing through self help groups in Karnataka	Domestic marketing of fish in India Muthkour, AP	College of Fishery Sciences
135	Somashekara, S.R., Shivaprakash, S.M., And S.Benakappa,	Length weight relationship and condition factor of grey mullet <i>Liza melinoptera</i> (Val) off Mangalore waters	The 8 <sup>th</sup> Asian Fisheries Forum, Kochi (Poster presentation)	The Asian Fisheries Society, Indian Branch.
136	H.N.Anjanyappa, S.M. Shivaprakash, S.Benakappa, S.R.Somashekara, Mridula R. Mendon and M.U.Shivappa	Breeding periodicity of the mullet, <i>Liza macrolepis</i> (Smith) from Mangalore waters	The 8 <sup>th</sup> Asian Fisheries Forum, Kochi (Poster presentation)	The Asian Fisheries Society, Indian Branch.

Veterinary College, Hassan

137	Iqbal Ahmed	Oxygen consumption rates in Catla seed effect of size	National Seminar as biotechnological strategies for bio-diversity conservation.	ISCAP and Kuvempu University, Shimoga		
138	Dr. Naveen Kumar, S	Survey of Mandya sheep in its Breeding Tract	National Symposium on Redefining role on indigenous Animal Genetic Resources in Rural development. Feb 15-16, 2008	SOC DAB, Karnal and KVAFSU, Bidar	LRIC, Naga-mangala	
139	Dr. Naveen Kumar, S	Biometrical profile of Mandya Sheep	National Symposium on Redefining role on indigenous Animal Genetic Resources in Rural development. Feb 15-16, 2008	SOC DAB, Karnal & KVAFSU, Bidar		
140	Basavaraju*, Rajkumar Pujari, G.Y.Keshavappa, K.V.Mohire,	Fish Production Under polyculture in selected seasonal tanks in Northern Districts of Karnataka.	8 <sup>th</sup> Asian Fisheries Forum held at Kochi, November 20-24, 2007.	Asian Fisheries Society, Manila	FRIC, Hebbal, Bangalore	
141	Y.Basavaraju, D.S.Sowmya D.Theertha Prasad	Preliminary studies on the application of molecular tools in the breeding programme for common carp <i>Cyprinus carpio</i> .	8 <sup>th</sup> Asian Fisheries Forum held at Kochi, November 20-24, 2007	Asian Fisheries Society, Manila		
142	Re emergence of glanders: Its diagnosis and control. B.M Chandra Naik, B.R.Harish, Shivaraj, M.D.Venkatesha and Renukaprasad, C. (2007). National seminar on emerging diseases in animals. Held at Kerala, Dec., 2007					
143	An etiopathological studies and differential diagnosis of Classical swine fever, HS & Salmonellosis in pigs. Harish, B.R, Shivaraj. Chandra Naik, B.M,M.D.Venkatesha and Renukaprasad, C. (2007). 24 <sup>th</sup> Annual Convention of Indian Association of Veterinary Pathologists, at Tirupathi, from 01-03 October, 2007					
144	Taenid infections in sloth bears. P.R. Prathiush, B.R.Harish B.M.ChandranaiK., G.K.Vishwanath, P Giridhar, C.Renukaprasad 24 <sup>th</sup> Annual Convention of Indian Association of Veterinary Pathologists, at Tirupathi,, from 01-03 October,2007					
145	Identification of forensic materials of wild life. B.R.Harish B.M.ChandranaiK, Shivaraj, Venkatesh M.D. and C. Renukaprasad 24 <sup>th</sup> Annual Convention of Indian Association of Veterinary Pathologists, at Tirupathi, from 01-03 October,2007					
146	Non tubercular granulomatous hepatitis in free ranging elephants. B.R.Harish, P.Giridhar B.M.ChandranaiK and C. Renukaprasad. 24 <sup>th</sup> Annual Convention of Indian Association of Veterinary Pathologists, at Tirupathi, from 01-03 October,2007					Institute of Animal Health and Veterinary Biological, Hebbal, Bangalore
147	Unusual eye infections in sheep. B.R.Harish, B.M.ChandranaiK, Shivaraj, M.D.Venkatesha and C Renukaprasad. 24 <sup>th</sup> Annual Convention of Indian Association of Veterinary Pathologists, at Tirupathi, from 01-03 October,2007					
148	Septecemic Salmonellosis in pigs in and around Bangalore. Shivaraj, B.R.Harish, B.M.ChandranaiK M.D.Venkatesha and C.Renukaprasad. 24 <sup>th</sup> Annual Convention of Indian Association of Veterinary Pathologists, at Tirupathi, from 01-03 October,2007					
149	Wild life forensic materials- identification based on morphology and molecular methods. Harish B.R., Shivaraj, B.M.ChandranaiK, M.D.Venkatesha, Byregowda S.M. and C.Renukaprasad. National seminar on Modern Diagnostic Techniques and Challenges in control of livestock and Poultry Diseases.					
150	Occurrence of wild animal diseases in zoos and national parks in Karnataka. C. Renukaprasad. National seminar on Modern Diagnostic Techniques and Challenges in control of Livestock and Poultry Diseases.					



152	Biosafety laboratories : Need and Practices M.D.Venkatesha, B.M.Chandranaiik, Shivaraj., Harish B.R. and C. Renukprasad. National seminar on Modern Diagnostic Techniques and Challenges in control of livestock and Poultry Diseases.
153	Studies on isolation of salmonella Spp. In pigs from field outbreaks. Shivaraj., B.M.Chandranaiik, Harish B.R., M.D.Venkatesha and C. Renukprasad. National seminar on Modern Diagnostic Techniques and Challenges in control of livestock and Poultry Diseases.
154	Re emergence of glanders: its Diagnosis and control. B.M Chandra Naik, Shivaraj, B.R.Harish, M.D.Venkatesha and Renukprasad, C, (2007). National seminar on Modern Diagnostic Techniques and Challenges in control of livestock and Poultry Diseases.

### 6. Patents Obtained

Dr. B.M.Veeregowda, Assistant Professor, Department of Microbiology, (Veterinary College, Hebbal, Bangalore) has obtained patent for the inventioner titled "Novel Biofilm Vaccines against bacterial diseases of Birds and Domestic Animals" (Patent No.216990 on 24.3.2008 by the Intellectual Property Right India, Patent Office, Government of India).

### 7. Technologies Developed

1. Medical management of pyometra in bitches using Antiprogestins has been standardized by Veterinary College, Hebbal, Bangalore.
2. Monoclonal antibody based test for detection of EUS fungus by the Department of Aquaculture, College of Fisheries, Mangalore.
3. Monoclonal antibody based test for detection of carp Igm by the Department of Aquaculture, College of Fisheries, Mangalore.

### 8. Awards / Recognitions

Sl.No.	Name of the Scientist	Award	Year	Agency	Institute	
1.	Dr.V.Jagadeeswary for best research paper presentation	Young Scientist award	2008	IX National Seminar on "Role of Women Veterinarians in Augmenting Rural Economy through Animal Husbandry", 24 <sup>th</sup> & 25 <sup>th</sup> Jan., 2008	Veterinary College, Hebbal, Bangalore	
2.	Dr.V.Jagadeeswary, Dr.K.Satyanarayan and Dr.Jayashree	Best Poster Presentation award	2008			
3.	S. Isloor, N. Rajgopal, H.N.N.Murthy and S. Yathiraj	Poster award	2008			Fifth National symposium on "Redefining Role of Indigenous Animal Genetic Resources in Rural Development" Society for Conservation of Domestic Animal Biodiversity, Karnal, Haryana held at Veterinary College, KVAFSU, Bangalore from 15 <sup>th</sup> -16 <sup>th</sup> February, 2008
4	Dr. Mahesh S. Doddamani	Young Scientist	2007	ISSAR	Veterinary College, Bidar	
5	Dr. B. V. Shivaprakash	Independence day award	2007	Bidar Dist., Govt. of Karnataka		
6	Dr. B. V. Shivaprakash	Sarojini Mahishi award	2007	Janata Seva Trust, Bangalore		
7	Dr. B.A. Shamsundar	Best Teacher Award	2007	Professional Fisheries Graduates Forum (PFGF)	College of Fisheries, Mangalore	
8	N.S.Sudhakar	Best Teacher Award	2007			-do-
9	Iqias Ahmed	Best teacher Award	2007			-do-

## 9. Information On Research Council, Important Decision Taken

Basically, the Directorate of Research is having the responsibility of managing the different research projects running in the various constituent Colleges of the University.

### I Research Projects

#### A) Continued Projects

A total of 44 continued research projects are in progress at various constitution Colleges of the University, out of which 28 projects belongs to Fisheries, 08 projects belongs to Veterinary Science, 05 projects belongs to Poultry Science, 02 projects belongs to Animal Science and 01 project belongs to Dairy Science. For all these research projects, experienced professors of the University have got the resources of worth Rs.10.95 crores from external source. In this direction the University has planned programmes for the transfer of research findings of above said research projects to reach the farming community of state as well as the country.

#### B) New Projects

During the year 2008-09, in total 30 new research projects viz, 03 Poultry Science Projects, 12 Fisheries Projects, 04 Animal Science Projects and 05 Dairy Science Projects have been submitted for external financial rapport, out of which 08 projects worth of Rs. 20,6,688/- have already been approved and are in the beginning stage. And projects worth of Rs.213.51 lakhs are at different stage of approval.

#### C) University Projects

Keeping the basic research in view, University has allotted Rs.10.00 lakhs during the year 2008-09 budget for University Projects. Out of which Rs.3,12,000/- for 25 projects of Veterinary Science, Rs.90,000/- for 05 projects of Animal Science, Rs.1,01,000/- for 09 projects for Fisheries and Rs.1,79,000/- for 09 projects of Dairy Science, total worth Rs.6,82,000/- have already been sanctioned. This helps the teaching staff to take up basic research of first instance and it further helps to get external funded research projects.

### ii. Research and Information Centers

As per notification No.1, under University act 2004, two various Livestock and Fisheries centers are yet to be handed over by the State Govt. and 2 Agricultural Universities of the State. University has already taken the following institutions under its control.

1. Livestock Research and Information Centre (Deoni), Hallikhed, Bidar.
2. Livestock Research and Information Centre (Sheep), Nagamangala, Mandya.
3. Livestock Research and Information Centre (Amrithmahal), Konehally, Tiptur.
4. Fisheries Research and Information Centre (Inland), Hebbal, Bangalore.
5. Fisheries Research and Information Centre (Inland), Hesaraghatta, Bangalore.
6. Fisheries Research and Information Centre (Marine), Bela, Ankola.

Other than the above mentioned institutions, University has to take over the following centers to it's control.

1. State Livestock Breeding and Training Centre, Hesaraghatta, Bangalore.
2. State Sheep Breeding Farm, Bandur, Melavatti.
3. State Livestock Breeding and Training Centre, Kurikuppe, Bellary.
4. Fish Fingerlings Production Farm, Munirabad, Koppal.
5. Fish-Fingerlings Production Farm, Shivapura, Koppal.

In these centers University has made arrangements to give information regarding Animal Husbandry, Fisheries Education, Research and Extension to Farmers and Public.

#### 1. Livestock Research and Information Centre, Deoni, Hallikhed, Bidar

The centre is having a land of 19.05 Hectares and is meant for conserving and developing Deoni Breed of Cattle. Apart from this the centre has been developed on the basis of the Bio-Village concept. In addition for the benefit of farming community the demonstration units such as, Turkey Rearing, Emu Rearing, Fisheries, Vermi-compost production, Azola Production, Fodder Crops Management and Rain-Water Harvesting are under taken.



The centre is also conducting short term sponsored training programmes to farmers farm woman, self-help group members and stree-shakti group members in Dairying and Fisheries and the centre is also providing practical training facilities to the B.V.Sc. and AH students of various constituent Veterinary Colleges of the University.

In the centre a project has been formulated to start an Association of Deoni Breeders and to supply the male calves borned in the farm to the members of association and farmers.

## **2. Livestock Research and Information Centre (Sheep), Nagamangala, Mandya**

This centre is having 138-44 Hectare of land and is basically meant for developing the local breed of Sheep and in this aspect trainings are also conducted to the interested farmers. Apart from this sheep rearing, grass land development, cross-breed rearing activities are in progress. The centre is also used for training the students of B.V.Sc. and AH of various constituent Veterinary Colleges of the University.

## **3. Livestock Research and Information Centre (Amrithmahal), Konehalli, Tiptur**

This centre is having 1282 Acres and 44 guntar area of hilly and farm land and basically having objective of conserving and developing of Amruthmahal Breed of Cattle. An action has been taken to start a Association of Farmers who are rearing the Amruthmahal Breed. At present the centre is carrying out eh activibes in cross-bred cattle rearing, sheep and goat rearing and also conducting short term sponsored trainings to farmers, farm-women, SHG members, stre-shakti group members in Dairying and Fisheries.

## **4. Fisheries Research and Information Centre (Inland), Hebbal, Bangalore.**

This centre is having 8 hectares of land, research regarding Inland Fisheries are being conducted in the centre. The centre is also working towards the production and supply of ornamental fishes to fish farmers. With the continuous efforts of the scientist of the centre, University is able to produce and release a high-meat yielding variety/breed of fish called Amur. Which is more profitable to fish farming community.

The centre is having a modern and well equipped soil and water testing laboratory which is providing facilities and services to farmers specially fish farmers.

## **5. Fisheries Research and Information Centre (Inland), Hessaraghatta, Bangalore**

This centre is having 4 hectares of land. In this centre research on Inland Fisheries and improving the colours of the ornamental fishes have been under taken, in addition balanced feed which is very much essential to fisheries is also produced here. Apart from this the centre is supplying required fish fingerlings for aquarium purpose. The centre also organizes sponsored training programme for the benefit of farmers.

## **6. Fisheries Research and Information Centre (Marine), Bela, Ankola.**

This centre is having of 6.16 hectares and basically research regarding Marine Fisheries is being carried out in the centre. Specially research relating to prawn farming and training programmes are also being conducted in the centre.

### III. EXTENSION EDUCATION

#### 1. Transfer of Technologies

##### a) Technologies released

Veterinary College, Hebbal, Bangalore

##### Department of Physiology

The Bio-assay test for diagnosing pregnancy in cattle is the technology transferred. The details of the same with relevant information are as follows:

##### A simple bioassay (Punyakoti test) was developed to diagnose pregnancy in cattle :

Diagnosing the pregnancy of cows is a decisive step in dairy management. An early detection of problems in pregnancy after insemination would help increasing the lactation period as the inseminated but un-conceived cows are a debt on the dairy productivity. Diagnosing pregnancy is also important in achieving synchronization of non pregnant cows. At present there are no simple laboratory tests in India available to diagnose pregnancy in cows and buffaloes.

A simple tool for diagnosing pregnant cows and buffaloes is all the more important in the rural India where there are no facilities for the farmers to get their cattle examined regularly by the veterinarians. Herding them to the nearest veterinary hospitals that are generally kilometers away places severe stress on the pregnant animals and hence the farmers are hesitant to frequently get them checked. Obviously farmers undergo economic losses in situations where the insemination has failed as there may be a long delay in identifying the un-conceived cows.

A simple, non invasive seed germination assay

#### 2. Trainings / Workshops / Seminars organized

termed as Punyakoti test, after the legendary cow of the same name familiar in south India, story has been developed and standardized by the PI at the Veterinary College to diagnose pregnancy in cattle based on the clues recovered in the Papyri belonging to ancient Egypt (4000 Before Present). The test involves, as per the papyri, ancient doctors were diagnosing pregnancy in women based on the effect of cow's urine on seed germination. The woman in question was asked to urinate on cotton bags containing wheat and barley seeds and based on the response of the seeds the pregnancy of the lady was diagnosed. Based on this ancient clue a simple technique was developed by the PI for diagnosing pregnancy in cattle which involves germination of wheat seeds in the diluted urine of cow in question. The pregnant cow's urine (diluted 1:4) inhibits the seed germination and growth of seedlings of a range of crops such as wheat, barley, paddy, green gram, ragi and cowpea, while the urine of the non-pregnant cow (diluted 1:4) does not show such inhibition. The test now christened as Punyakoti test (after the sacred cow in Karnataka) is now being practiced in the field in several districts of Karnataka and Andhra Pradesh. It has also become familiar among the farmers of Maharashtra as door-step technology.

Some of the routes through which this test has been familiarized are as follows

This technology was demonstrated to the farmers, public and field Veterinarians during Krishimelas held at different places and in different years:

- a) Eight Krishi Melas held at GKVK, UAS Bangalore during 2000-2008
- B) Viswa Gosammelana held at Ramachandra Pura Mutt, Shimoga in 2007

Sl. No.	Department	Place & Date	Title	No. Of Participants	Sponsoring agency	Director / Coordinator / Convenor	Institute
1.	Livestock Production Management	Sondekoppa Nelmangala Taluk 26 <sup>th</sup> April, 2007	Training on Rabbit Rearing	50	DBT project on	Dr.Y.B.Rajeshwari Backyard Rabbit Rearing	Veterinary College, Hebbal, Bangalore
2.	Veterinary College	Veterinary College, Bangalore 27 <sup>th</sup> - 29 <sup>th</sup> June, 2007	Convocation of National Academy of Veterinary Sciences	80	National Academy of Veterinary Sciences, New Delhi	Dr.B.S.V.Reddy, Dean	
3.	Microbiology	Veterinary College, Bangalore 2 <sup>nd</sup> to 6 <sup>th</sup> July, 07	Handling of Bird Flu operations	UG & PG students	Veterinary College, Bangalore	Dr.D.Rathnamma & Dr. Shrikrishna Isloor	



4.	Clinical Veterinary Medicine	Veterinary College, Bangalore 9-14 July, 07	Continuing Veterinary Education on Ruminant Medicine	25	KVAFSU	Dr.S.Yathiraj Dr.H.A.Upendra	Veterinary College Hebbal, Bangalore
5.	Livestock Production Management	Nigamapalli, Bagepalli, Kolar District 12 <sup>th</sup> July 2007	Training on Rabbit Rearing	80	DBT project on Backyard Rabbit Rearing	Dr.Y.B.Rajeshwari Dr.K.Satyanarayan	
6.	Veterinary Surgery & Radiology	Veterinary College, Bangalore 11.6.07-16.6.07 25.6.07-30.6.07 23.7.07-28.7.07 6.8.07-11.8.07	Training Programme in Small Animal Surgery	20 20 20 20	Karnataka Veterinary Council	Dr. M.S.Vasanth, Dr.L.Ranganath, Dr.B.N.Nagaraja, Dr. George Chandy	
7.	Livestock Production Management	Manchenabelle, Nelmangala, Bagepalli, Kolar District 1 <sup>st</sup> Sept., 2007	Training on Rabbit Rearing	50	DBT project on Backyard Rabbit Rearing	Dr.Y.B.Rajeshwari Dr.K.Satyanarayan	
8.	Livestock Production Management	Palanahalli, Magadi Taluk, Bangalore Rural 9 <sup>th</sup> Sept., 2007	Training on Rabbit Rearing	30	DBT project on Backyard Rabbit Rearing	Dr.Y.B.Rajeshwari Dr. K. Satyanarayan	
9.	Veterinary College	NIANP, Bangalore 21 <sup>st</sup> 22 <sup>nd</sup> Sept. 2007	VCI National Seminar on "Veterinary education and practice present status and future needs to meet the emerging challenges"	75	Veterinary Council of India New Delhi	Dr.B.S.V.Reddy, Dean	
10.	Pharmacology and Toxicology	Veterinary College Bangalore 6-10, October, 2007	Recent trends in Toxicology Diplomate of American Board of Toxicology	345	Jointly organized by Advinus Therapeutics Bangalore, STOX India and Department	Dr. K Jayakumar Organizing Secretary	
11.	Livestock Products Technology	Veterinary College Bangalore 3 <sup>rd</sup> to 7 <sup>th</sup> December, 2007	"Clean Milk and Clean Meat Production and Value Addition"	20	ICAR	Dr. Nadeem Fairoze Dr. S. Wilfred Ruban	
12.	Veterinary College	Bangalore 7.1.2008 to 11.1.2008	ASCAD training programme for Veterinarians	17	Government of India & Government of India	<u>Director</u> Dr.S.Yathiraj <u>Co-course Directors</u> Dr. M.Narayana Bhat Dr.D.Rathnamma Course Coordinators	

						Dr.Placid E. D'Souza, Dr. K. Satyanarayan and Dr. Shnkrishta Isloor	
13.	Veterinary College	Bangalore 21.1.2008 to 25.1.2008	ASCAD training programme for Para Veterinary Staff	17	Government of India & Government of India	-do-	
14.	Veterinary College	Bangalore 28.1.2008 to 1.2.2008	ASCAD Training Programme	20	Government of India & Government of India	-do-	
15.	Veterinary College	Bangalore 4.2.2008 to 8.2.2008	ASCAD Training Programme for Para-Veterinary staff	21	Government of India & Government of India	-do-	
16.	Veterinary College	Veterinary College, Bangalore 21 <sup>st</sup> -25 <sup>th</sup> Jan, 08	ASCAD Training Programme for Para-Veterinary Staff	17	Government of India & Government of India	<u>Director</u> Dr.S.Yathiraj <u>Co-course</u> <u>Directors</u> Dr. M.L. Satyanarayana Dr. A.Muralidhar <u>Course</u> <u>Coordinators</u> Dr. H. D. Narayanaswamy, Dr. K. Satyanarayan and Dr. B.M. Veeragowda	Veterinary College Hebbal, Bangalore
17.	Veterinary College	Veterinary College, Bangalore 4 <sup>th</sup> - 8 <sup>th</sup> Feb., 08	ASCAD Training Programme for Para-Veterinary Staff	21	-do-		
18.	Veterinary College	Bangalore 20 <sup>th</sup> January 2008	National Dog show		Veterinary College, Bangalore and KARUNA	Dr.S.Yathiraj	
19.	Livestock Production Management	24 <sup>th</sup> -25 <sup>th</sup> Jan.,08	Role of Women Veterinarians in augmenting rural economy through Animal Husbandry	250	Indian association of Lady Veterinarians (IALV) (Karnataka Chapter)	Dr. Y. B. Rajeshwari	
20.	Animal Breeding, Genetics and Biostatistics	15 <sup>th</sup> & 16 <sup>th</sup> Feb., 2008, Veterinary College,Bangalore	National Symposium on "Redefining Role of Indigenous	200	In association with SOCDAB, Karnal, Haryana	Dr. M.R. Jayashankar	



			Animal Genetic Resources in Rural Development".				
21.	Veterinary College	Veterinary College, Bangalore 22 <sup>nd</sup> to 24 <sup>th</sup> February, 2008	15 <sup>th</sup> CVA Asian Regional Meeting Conference and Workshop on Concepts in Animal Welfare	70	KVAFSU, CVA and WPSA	Dr.S.Yathiraj Dean Dr. H.A. Upendra	Veterinary College Hebbal, Bangalore
22.	Animal Reproduction, Gynaecology & Obstetrics	Veterinary College, Bangalore, 7 March 2008	Practical approaches to infertility in livestock and Companion Animals	90	ISSAR	Dr. A. Krishnaswamy	
23.	Veterinary College	15 <sup>th</sup> March 2008	Workshop on "Pet Grooming"	100		Dr. S. Yathiraj Dr. L. Ranganath	
24.	Livestock Production Management	Kannada Sabhagana, Hebbal, Bangalore. 15 <sup>th</sup> March 2008	International Conference on Rabbit Production	200	Indonesian Centre For Animal Research & Development, Indonesian Branch World Rabbit Science Association District Government of Bogor	Dr. Y.B.Rajeshwari	
25.	Pathology	Veterinary College, Bangalore 17 <sup>th</sup> 19 <sup>th</sup> Mar, 08 24 <sup>th</sup> -26 <sup>th</sup> Mar, 08	Training on Diagnosis of Rabies under CVE	19 in Batch I, 19 in Batch II	Veterinary Council of India, New Delhi	Dr.S.Yathiraj Dr. M.L. Satyanarayana	
26.	Livestock Production Management	Gangasandra, Gowribindunoor Taluk, Kolar Dist. 31 <sup>st</sup> March 2008	Training on Rabbit Rearing	50	DBT project on Backyard Rabbit Rearing	Dr.Y.B.Rajeshwari Dr. K. Satyanarayan	
27.	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 24-09-2007 to 29-09-2007	Human Resources Development	16	KVC, Bangalore	Dr. K.C.Veeranna & Dr. Shivakumar K. Raddar	Veterinary College, Bidar
28.	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 01-10-2007 to 06-10-2007	Extension tools and Techniques in Veterinary Practice and Livestock Development	11	-do-		
29.	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 14-01-2008 to 18-01-2008	Livestock and Livelihoods in Indian Context	12	ICAR	Dr. K.C.Veeranna and Dr. Shivakumar K. Raddar	

30.	Dept. of Vety. & A.H Extension	Veterinary college, Bidar 18-03-2008 to 05-04-2008	Field Experience Training for 82 <sup>nd</sup> FOCARS scientists	6	NAARM Hyderabad	Dr. K.C.Veeranna and Dr. Shivakumar K. Raddler	Veterinary College, Bidar
31.	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 11-02-2008 to 21-02-2008	Course For Production staff of frigerio conserva allana limited Under Institute Industrial Linkage Programme	32	DBT, GOI	Dr. K.C.V	
32.	Pharmacology and toxicology	Veterinary College, Bidar, 19 <sup>th</sup> -24 <sup>th</sup> Nov., 2007	Clinical Pharmacology and Forensic Toxicology	28 officers of Dept. of Ahand VS Karnataka Veterinary Council	Karnataka Veterinary Council	Dr. Prakash.N Associate professor and head Dept. of Pharmacology & Toxicology	
33.	VMC	Veterinary College, Bidar 10/03/2008 To 13/03/2008 and 17/03/2008 to 20/03/2008.	Diagnosis of Brucellosis		-do-		
34.	Dept. of Clinical Medicine and Preventive Vet. Medicine, Veterinary College, Bidar	Veterinary College, Bidar, 26-11-2007 to 1-12-2007	Advances in diagnosis and treatment of economically important diseases of farm animals	21	Dept. of Animal Husbandry and Dairying, Govt. of India and Dept. of A.H. & V.S., Govt. of Karnataka	Dr. Vivek Kasaraliker, Dr. N.A. Patil and Dr. K.G. Udulp	
35.	ARGO	Veterinary College, Bidar,	A.I.& Treatment of infertility in dairy cattle and Buffaloes		KLDA	Dr. M.K. Tandle Dr. S.D.Sonavane Dr. R.G. Bijurkar and Dr. Mahesh S. Dodamani	
36.		2-4-07- 6-4-07		15			
37.		9-4-07-13-4-07		18			
38.		16-4-07-20-4-07		20			
39.		23-4-07-27-4-07		13			
40.		30-4-07-4-5-07		15			
41.		7-5-07-11-5-07		10			
42.		14-5-07-18-5-07		12			
43.		21-5-07-25-5-07		9			
44.		28-5-07-1-6-07		15			
45.		4-6-07-8-6-07		9			
46.		11-6-07-15-6-07		4			
47.		18-6-07-22-6-07		7			
48.		25-6-07-29-6-07		5			



49.	Dept. of Surgery and Radiology,	Vety. College, Bidar, 20 to 25 <sup>th</sup> 2007 3 to 8-9-07 17 to 22-9-07	Refresher training on X-ray and orthopaedic Surgery,		KVC	Dr. B. V. Shivaprakash, Dr. D.Dilipkumar and Dr. Ravi Raicurg	Veterinary College, Bidar
50.	Dept of Surgery & Radiology.	Veterinary College, Hebbal, during 2007-08	Small Animal Surgery		KVC	Dr. M.S.Vasanth	Veterinary College, Hassan
51.	Dairy Tech	4.5.2007 Ivarakanda-pura, B'lore North	Preparation of value added dairy products	40	-	Dr. H. G. Ramachandra Rao	
52.	Dairy Tech	8.5.2007 Dept. of Dairy Tech Bangalore	Processing of milk and milk products for the benefits of farmwomen	30	UAS	Venkateshaiah Dr.H.Arunkumar	
53.	Dairy Tech	14.5.2007 UAS Bangalore	Milk products & its packaging to Agriclinic Trainees	25	UAS	Dr.B. V. Venkateshaiah	
54.	Dairy Tech	25.6.2007 to 27.6.2007 Dept. of Dairy Tech., B'lore	Production of dairy products on commercial scale	25	-	Staff of the department	
55.	Dairy Tech	25.7.2007 Hadonahalli Doddaballapur	Demonstration on milk products preparation	25	KVK Doddaballapur UAS	Mr. M.Venkatesh	Dairy Science College, Hebbal, Bangalore
56.	Dairy Tech	26.7.2007 Hadonahalli Doddaballapur	Demonstration on milk products preparation	25	KVK Doddaballapur UAS	Dr. H. Arunkumar	
57.	Dairy Tech	17.9.2007 Anekal Bangalore rural	Demonstration on Preparation of milk production	30	RK Patha-shala	Mr. M. Venkatesh	
58.	Dairy Tech	30.10.2007 KVK Shimoga	Lecture cum demonstration on milk products Preparation	35	KVK Shiva-mogga	Dr. H.Arunkumar	
59.	Dairy Tech	7.11.200, Dept. of Dairy Tech	Processing of market milk	30	Vety Polytech AP	Dr. H.Arunkumar	
60.	Dairy Tech	4.12.2007 Huliyur Devanahalli	Lecture-cum Demonstration on Clean Milk Production	35	Dairy Science College	Dr. H. G. Ramachandra Rao	
61.	Dairy Tech	14.1.2008 Oddatumkur Village Doddaballapur	Lecture cum demonstration on value added dairy products	30	Dairy Science College	Dr. H. G. Ramachandra Rao Dr.H.Arunkumar	
62.	Dairy Tech	7.2.2008 IAT Bangalore	Probiotech frozen dairy products	100	AFST(I) B'lore Chapter	Dr. H. G. Ramachandra Rao	
63.	Dairy Tech	12.2.2008 Dairy tech dept. Bangalore	Demonstration on milk product preparation	50	FTI UAS	Dr. H. G. Ramachandra Rao Dr. H. Arunkumar	

64.	Dairy Tech	27.2.2008 Anekal	Preparation of milk products	30	RK Patha-shala	Mr.L Mahalingaiah	Dairy Science College, Hebbal, Bangalore
65.	Dairy Tech	19.4.2008	Lecture cum Demonstration on milk products preparation	50	Mysore Udyana Kala Sangha Lalbagh	Dr. H. G. Ramachandra Rao	
66.	Dr.H.Arunkumar	Dairy Tech 11.7.2008 Dept of dairy tech	Preparation of value added dairy products for solar and huliyur villagers of Bangalore rural	35	Dairy Science College	Dr. H. G. Ramachandra Rao Dr. H. Arunkumar Mr.Sharanagouda,	
67.	Dairy Extension	3.5.2008	Clean Milk Production	60	During NSS Camp	Dr. E. Narayanappa	
68.	Dept. of Aquaculture	Fishecol June 2007	Shrimp Culture	25	National Fishery Development Board	Dr. Shankar K.M.	College of Fisheries, Mangalore.
69.	Dept. of Aquaculture	BFDA Kundapur	Shrimp Culture	30	National Fishery Development Board	Dr. Shankar K.M.	
70.	LRIC (Deoni)	28.01.08	Clean Milk Production	37	KMF	Dr. Satish C Biradar	LRIC (Deoni farm, Karanja, Bidar)
71.	SHG Members	05.05.08	Dairy Training	21	Orbit NGO	"	
72.	"	12.05.08	"	37	"	"	
73.	"	19.05.08	"	44	"	"	
74.	"	24.05.08	"	23	"	"	
75.	"	26.05.08	"	31	"	"	
76.	Fisheries Research & information Center (Inland), Hesaraghatta/ Hebbal, B'lore	Conference Hall Dairy Science College, Hebbal, Bangalore 20-29 <sup>th</sup> Aug. 07	Intensive Aquaculture in Ponds and Tanks (10 Days)	23 (B'lore urban)	NFDB, Hydrabad	Dr. K.V. Mohire	FRIC, Hessara- ghatta, Bangalore
77.		2. I A H & V B, Hebbal, B' lore 17-26 <sup>th</sup> Sept. 07	--	21 (B' lore Rural)	NFDB Hyderabad	Dr. K.V. Mohire	
78.		3. I A H & V B, Hebbal, B' lore 25 <sup>th</sup> Oct. To 3 <sup>rd</sup> Nov., 2007	--	22 (Tumkur)	NFDB Hyderabad	Dr. K.V. Mohire	
79.		4. I A H & V B, Hebbal, B' lore and (Kolar) Hyderabad 14 to 23 <sup>rd</sup> Dec., 2007	--	22	NFDB	Dr. K.V. Mohire	
80.	M.F.R.I.C.	MFRIC, Training hall, 7.3.08 to 11.3.08	Recent Advances in Coastal Aquaculture	20	KVAFSU, Bidar	S.M. Satyanarayanappa	MFRIC Ankola



81.	Dr. Alameelu, M.S., Scientist-1 attended training on "Analytical Toxicology" during April 2007, conducted by Amritha Institute of Medical Sciences, Cochin.	IAH & VB Hebbal Bangalore
82.	Institute of Animal Health and Veterinary Biological, Hebbal, Bangalore Training on Avian Influenza ELISA was given to Dr. B. Sarlija and Dr. Phuhan from 10.5.07 to 14.5.07.	
83.	Dr. Shobha Rani, Scientist 3 attended "Avian Influenza diagnostic procedures" at Taiwan, June 2-15, 2007, conducted by USDA and International Avian Influenza co-ordinating committee.	
84.	Hands on training on "SEXUALLY TRANSMITTED DISEASES, TUBERCULOSIS AND JOHNE'S DISEASE DIAGNOSIS". From 24.09.07 to 28.09.07. Venue: SRDDL, IAH&VB, Bangalore.	
85.	Regional workshop on "SPS RELATED RISK ANALYSIS ON ANIMAL LIFE OR HEALTH" under WTO-STDF programme from November 19 <sup>th</sup> to 23 <sup>rd</sup> 2007.	
86.	Workshop on "Bovine Spongiform Encephalopathy/TSE Detection in Bovine Brain Samples using ELISA and Histopathology" was organized by SRDDL from March 24 <sup>th</sup> -26 <sup>th</sup> , 2008.	

### 3. Trainings / Workshops / Seminars participated as resource persons

Sl. No.	Name	Place & date	Title	Topic discussed	Institute
1.	Dr. M. L. Satyanarayana Dr.Suguna Rao Dr.H. D. N.Swamy, Dr.M L S, Dr.Suguna Rao	Veterinary College, Bangalore,	ASCAD Training Programme for Field Veterinarians	Diagnostic techniques in poultry diseases	
				Diagnostic techniques in pathology	
				Importance of PM examination and collection of suitable materials for disease diagnosis	
2.	Dr. M. L. Satyanarayana  Dr. H.D.N Swamy Dr. Suguna Rao, Dr.Kavitha Rani B	Veterinary College, Bangalore, 4/2/08 - 8/2/08	ASCAD Training Programme for Para-veterinarians	Praanigalinda manushyarige harduva rogakala bagge yeccahrike	
				Activities of IAHSVB	
				Visit to Dairy Unit and Management of Dairy farm	
3.	Dr.Suguna Rao  Dr. M. L. Satyanarayana	Veterinary College, Bangalore, 17/3/08 and 24/3/08	Training on Diagnosis of Rabies under CVE of VCI	Rabies Collection, Preservation and despatch of materials for detection of Rabies	
				Diagnosis of Rabies by Negri body detection	
				Zoonotic Importance of Rabies	
<b>Department of Veterinary Parasitology</b>					
4.	Dr. Placid E.D'Souza	Bangalore Medical College Alumni Association Building 13-15 April, 2007	National Conference on Parasitic Diseases	"Immunodiagnosis of animal parasitic diseases an appraisal"	Veterinary College, Hebbal, Bangalore,
5.	Dr. Placid E.D'Souza	Madras Medical College, Chennai 5.10.2007	First National Conference of the Indian Academy of Tropical Parasitology	"Cysticercosis an old but persistent helminthosis in animals and man"	
6.	Dr. G. C. Puttalakshamma	College of Veterinary Science & A.H. Anand, Gujarat 29-30 <sup>th</sup> Nov. 2007	6 <sup>th</sup> Annual Conference of IAVPHS	"Prevalence of Cryptosporidiosis in bovines"	
7.	Dr. Placid E. D'Souza	JIPMER, Pondicherry 1.12.2007	6 <sup>th</sup> National Workshop on Simple Diagnostic methods in Clinical Microbiology	"Immunodiagnosis of parasitic diseases with special reference to Cysticercosis"	



Department of Livestock Product Technology				
8.	Dr. S.Wilfred Ruban	Agri-Entrepreneurs sponsored by SRID, Assam (Farmers Training Institute) 19.12.2007	"Integrated Farming System"	Clean Meat Production
Department of LPM				
9.	Dr.R.Bhaskaran	Tirupathi (AP), 20 <sup>th</sup> to 22 <sup>nd</sup> June 2007	-	National symposium on policy initialization and technology development
10.	Dr.R.Bhaskaran	Dodda Tumkur, 13.1.08		DRWE Dairy College, Judging village camp of cattle
11.	Dr.Y.B.Rajeshwari	FTI Bangalore once in a month	Mola sakanike	Programme on Animal Husbandry to the members of Stree Shakthi & Swashakthi Groups
Department of ABGB				
12.	Dr.M.R.Jayashankar	IAT, Queen's Road, Bangalore 14 <sup>th</sup> June 2007	Training programme on Integrated Sample Survey for Data Enumerators	Importance of Sample survey and the methodology for Enumerators of Dept of AH & VS
13.	Dr.M.R.Jayashankar	Jawaharlal Auditorium, IISC, Bangalore 21.07.2007	State level Seminar organized by Karnataka State Government Vety. Doctors Asson.	"Bandur sheep Status and Perspective"
14.	Dr.M.R.Jayashankar	Dept. of Zoology, PES College, Bangalore, 31 <sup>st</sup> Aug., 2007	National Symposium on "Recent Trends in Bio-Sciences"	Application of Biotechnology in Livestock Production
Department of Clinical Veterinary Medicine				
15.	Dr.H.A.Upendra	Bangalore 1.6.07	ASCAD training Program	Prevention and control of poultry diseases
16.	Dr.H.A.Upendra	Shimoga 23.9.07	ASCAD training Program	Emerging Diseases of poultry and their control
17.	Dr.H.A.Upendra	Bangalore 10.1.08	ASCAD training Program	Control and prevention of poultry diseases
18.	Dr.H.A.Upendra	Bangalore 25.1.08	ASCAD training program	Metabolic diseases of livestock

Veterinary College,  
Hebbal,  
Bangalore,

19.	Dr.H.A.Upendra	Bangalore 31.1.08	ASCAD training Program	Control and prevention of poultry diseases	Veterinary College, Hebbal, Bangalore,
20.	Dr.H.A.Upendra	Bangalore 5.2.08	ASCAD training Program	Metabolic diseases of livestock	
21.	Dr.H.A.Upendra	Bangalore 27.2.08	ASCAD training Program	First Aid to sick animals	
22.	Dr.H.A.Upendra	Bangalore 21-22.9.07	Veterinary Education and Practice Present status and future needs to meet the emerging Challenges	Veterinary Education	
23.	Dr.H.A.Upendra	Bangalore 6.10.07	STOX annual conference & International Workshop	Veterinary Toxicology	
24.	Dr.H.A.Upendra	Chennai 7.9.08	National convention on Changing Horizons in Companion Animals at Chennai	Diseases of companion Animals. Lead paper was presented.	
25.	Dr.C.Ansar Kamran	Chikamagalur 13.12.2007	KVA technical seminar	Zoonosis in animals	
26.	Dr.C.Ansar Kamran	Bangalore 25.1.2008	ASCAD Training Program	Sanitation and hygiene in Veterinary Practice	
27.	Dr.C.Ansar Kamran	Bangalore 8.2.2008	ASCAD Training Program	Sanitation and hygiene in Veterinary Practice	
28.	Dr.S.Yathiraj	7 <sup>th</sup> to 11 <sup>th</sup> January 2008 28 <sup>th</sup> January, to 2 <sup>nd</sup> Feb. 2008	ASCAD Training Programme	Implementation procedure and monitoring of ASCAD programme	
29.	Dr.S. Yathiraj	Thailand - 19 <sup>th</sup> to 23 <sup>rd</sup> August, 2007	World congress of the World Small Animal Veterinary Association, Bangkok, Thailand		
30.	Dr.S.Yathiraj	Belgaum, 2 <sup>nd</sup> & 3 <sup>rd</sup> May, 2007	Technical conference organized by PPAK	Diagnosis and management of ascites in dogs	
31.	Dr.S. Yathiraj	USA- 12.11.2007 to 28.11.2007	Purdue University, West Lagayette, Kansas State University, Manhattan and Minnesota USA	Academic, Research and Technical Committee Conference	



32.	Dr. S. Yathiraj	Hospet - 15.12.07 & 16.12.07	"Diagnosis and treatment of common Diseases in Dogs"	
33.	Dr.S.Yathiraj	Chennai , 7 <sup>th</sup> to 9 <sup>th</sup> Feb. 2008	5 <sup>th</sup> convention of ISACP on changing Horizons in Companion Animals	Canine Medicine
<b>Department of Poultry Science</b>				
31.	Dr. B. Umakantha	FTI, Bangalore	06-06-2007	Village Poultry Production
32.	Dr. B. Umakantha	FTI, Bangalore	14-07-2007	Village Poultry Production
33.	Dr. B. Umakantha	FTI, Bangalore	18-07-2007	Village Poultry Production
34.	Dr. B. Umakantha	FTI, Bangalore	25-10-2007	Village Poultry Production
35.	Dr. B. Umakantha	FTI, Bangalore	27-11-2007	Village Poultry Production
36.	Dr. B. Umakantha	FTI, Bangalore	11-12-2007	Village Poultry Production
37.	Dr. B. Umakantha	FTI, Bangalore	24-01-2008	Village Poultry Production
38.	Dr. B. Umakantha	FTI, Bangalore	21-01-2008	Village Poultry Production
39.	Dr. B. Umakantha	FTI, Bangalore	04-02-2008	Village Poultry Production
40.	Dr. T. Munegowda	FTI, Bangalore	15-07-2007	Marketing of chicks, meat and eggs
41.	Dr. T. Munegowda	FTI, Bangalore	19-07-2007	Marketing of chicks, meat and eggs
42.	Dr. T. Munegowda	FTI, Bangalore	26-10-2007	Marketing of chicks, meat and eggs
43.	Dr. T. Munegowda	FTI, Bangalore	28-11-2007	Marketing of chicks, meat and eggs
44.	Dr. T. Munegowda	FTI, Bangalore	12-12-2007	Marketing of chicks, meat and eggs
45.	Dr. T. Munegowda	FTI, Bangalore	25-01-2008	Marketing of chicks, meat and eggs
46.	Dr. T. Munegowda	FTI, Bangalore	22-01-2008	Marketing of chicks, meat and eggs
47.	Dr. T. Munegowda	FTI, Bangalore	05-02-2008	Marketing of chicks, meat and eggs
48.	Dr. Jayanaik	College of Veterinary Science and AH, OUAT,Bhubaneswa	12-13 April 07	XXV Scientist's meet AICRP on Poultry Breeding.
49.	Dr. Jayanaik	FTI, Bangalore	15-07-2007	Feed and Feed Formulation
50.	Dr. Jayanaik	FTI, Bangalore	19-07-2007	Feed and Feed Formulation
51.	Dr. Jayanaik	FTI, Bangalore	26-10-2007	Feed and Feed Formulation
52.	Dr. Jayanaik	FTI, Bangalore	28-11-2007	Feed and Feed Formulation
53.	Dr. Jayanaik	FTI, Bangalore	12-12-2007	Feed and Feed Formulation
54.	Dr. Jayanaik	FTI, Bangalore	25-01-2008	Feed and Feed Formulation
55.	Dr. Jayanaik	FTI, Bangalore	22-01-2008	Feed and Feed Formulation
56.	Dr. Jayanaik	FTI, Bangalore	05-02-2008	Feed and Feed Formulation
<b>Department of Veterinary Preventive Medicine</b>				
57.	M.Narayana Bhat	Bangalore - 15-5-07	Farm Women Training FTI	Infectious diseases of cattle and their prevention

Veterinary  
College,  
Hebbal,  
Bangalore.

58.	M.Narayana Bhat and M.C. Anil Kumar	Bangalore 10/7/2008	Continuing Education - Ruminant Medicine	Diagnosis of Mastitis	Veterinary College, Hebbal, Bangalore,	
59.	M.Narayana Bhat	Bangalore 11/7/2008	Continuing Education - Ruminant Medicine	Diagnosis of bacterial diseases		
60.	Dr. P.T. Ramesh	Bangalore 13.7.2007	Continuing Education Ruminant Medicine	PPR		
58.	Dr. P.T. Ramesh	Bangalore 11.7.2007	Continuing Education Ruminant Medicine	Calf Diarrhea		
59.	Dr. P.T. Ramesh	Mangalore 11.11.2007	KVA Meet	Small Animal Dermatology		
60.	M.C. Anil Kumar	Bangalore 25/1/2008	ASCAD Training Programme	Rogagrasta Pranigalu shushrushe		
61.	M.Narayana Bhat	Bangalore 8-1-2008	ASCAD Training Programme	Diseases of wild animals and their control in Karnataka		
62.	M.Narayana Bhat	Bangalore 24-1-08	ASCAD Training Programme	Method of transmission of communicable diseases		
63.	M.Narayana Bhat	Bangalore 29-1-2008	ASCAD Training Programme	Diseases of wild animals and their control in Karnataka		
64.	M.Narayana Bhat	Bangalore 7-2-2008	ASCAD Training Programme	Method of transmission of communicable diseases		
65.	A. Muralidhar	Bangalore 24/1/2008	ASCAD Training Programme	Control and Prevention of HS & BQ		
66.	A. Muralidhar	Bangalore	ASCAD Training Programme	Common parasitic diseases and their control		
67.	A. Muralidhar	Bangalore	ASCAD Training Programme	Common poisoning in ruminants		
<b>Department of Veterinary Microbiology</b>						
68.	Dr. D.Rathnamma	Vety College, Bangalore 09.01.08 & 30.01.08	ASCAD Training Programme for Veterinarians	Control & diagnosis of Anthrax in Livestock		
69.	Dr. D.Rathnamma	17.01.08	ASCAD Training Programme for Livestock Inspectors	Infectious Diseases of Livestock Lecture in Kannada		
70.	Dr. D.Rathnamma	09.01.08 & 30.01.08	ASCAD Training Programme for Veterinarians	Diagnostic Techniques in Microbiology		
71.	Dr. D.Rathnamma	18.03.08 & 27.03.08	Training on Diagnosis of Rabies under Continuing Veterinary Education for Veterinarians	Counter Immuno electrophoresis & ELISA techniques in Diagnosis of Rabies in Animals		



72.	Dr. S. Isloor	Vety College, Bangalore 10.01.08 & 31.01.08	ASCAD Training Programme for Veterinarians	Trends in Bovine Mastitis Vaccine	Veterinary College, Hebbal, Bangalore,
73.	Dr. S. Isloor	16.01.08	ASCAD Training Programme for Livestock Inspectors	Jaanuvaarugallali rogaanugallindha kandu baruva rogalalu	
74.	Dr. S. Isloor	Haveri, 08.02.08	Technical Seminar at Dept of AH&VS, Haveri	Brucellosis Zoonotic Impact. Diagnosis & Control	
75.	Dr. S. Isloor	18.03.08	Training on Diagnosis of Rabies under Continuing Veterinary Education for Veterinarians	ELISA techniques in Diagnosis of Rabies in Animals	
76.	Dr. B. M. Veeregowda	Vety College, Bangalore 09.01.08 & 30.01.08	ASCAD Training Programme for Veterinarians	Practical aspects of diagnostic techniques in microbiology	
77.	Dr. B. M. Veeregowda	10.01.08 & 31.01.08		Diagnostic techniques in Poultry Diseases	
78.	Dr. Sharada	09.01.08 & 30.01.08	ASCAD Training Programme for Veterinarians	Practical aspects of diagnostic techniques in Microbiology	
<b>Department of Vety. Surgery &amp; Radiology</b>					
79.	Dr L. Ranganath	Belgaum 26.05.2007	Technical Seminar organized by District Veterinary Association Belgaum	Management of Fractures in Animals	
80.	Dr M. S. Vasanth	Kolar 7.08.2007	Technical Seminar organized by District Veterinary Assn. Kolar	Recent Advances in Pet Practice	
81.	Dr L. Ranganath	Veterinary College, Bangalore 23.1.2008	ASCAD Training to Paraveterinary Staff of Department of AH&VS, Govt. of Karnataka	Sterilization of Instruments	
82.	Dr L. Ranganath	Melukote 29.1.2008	Technical Seminar organized by Dist. Veterinary Association Mandya	Surgical affections and their management in small & large Ruminants	

83.	Dr L. Ranganath	Veternary College, Bangalore 6.2.2008	ASCAD Training to Paraveterinary Staff of Department of AH&VS, Govt. of Karnataka	Sterilization of Instruments	
<b>Department of ARGO</b>					
84.	A. Krishnaswamy	23/09/07, Shimoga	Annual technical workshop, KVA	Estrus synchronization and repeat breeding in cattle	
85.	A. Krishnaswamy	Chikkamangalore 13/12/07	Annual Technical seminar KVA	Estrus synchronization and repeat breeding in cattle	
86.	T.G. Honnappa	08/02/08, Mysore	Krishimela	Infertility in cattle and their solution	
<b>Department of Veterinary and Animal Husbandry Extension</b>					
87.	Dr. K.Satyanarayan	2.5.2007 Veternary College, Bangalore	NSS Training program		
88.	Dr. K.Satyanarayan	11.5.2007 UAS, Bangalore	Training for Subject Matter Specialists of KVKS of		Veterinary College, Hebbal, Bangalore,
89.	Dr. K.Satyanarayan	Assam, 13.6.2007, 25.6.2007 11.7.2007, 19.7.2007, 25.10.2007 29.11.2007	SIRD Training for Assam entrepreneurs		
90.	Dr. K.Satyanarayan	Jarkand, 4.2.2007	Training for progressive farmers of Jarkand		
91.	Dr. K.Satyanarayan	15.5.2007, 1.6.2007	Farmers Training Programs		
92.	Dr.K.Satyanarayan	7.01.2008, 22.1.2008, 24.1.2008 1.2.2008, 4.2.2008, 27.2.2008	ASCAD Training		
94.	Dr. K.C. Veeranna	College of Vety. & Animal Science, Pookot, Kerala 24-10-2007 to 26-10-2007	Improving quality of Veterinary Extension Education	Need Assessment of Vety. & A.H Extension Departments	Veterinary College, Bidar
95.	Dr. K.C. Veeranna	RAGHOCOVAS, Pondicherry 14-11-2007 to 15-11-2007	Livestock and Poverty Alleviation among Women Self Help Groups	Quality and impact of Self Help Group movement in Bidar District	



96.	Dr. K.C. Veeranna	College of Veterinary Sciences, Hyderabad 24-01-2008	National Seminar on Problems and Prospects in knowledge dissemination on Livestock Rearing among Women Self Help Groups	An action oriented approach for dissemination of knowledge on scientific Bidari goat rearing practices among livestock interest groups	Veterinary College, Bidar
97.	N. Prakash	Veterinary College, Bidar, 19 <sup>th</sup> -24 <sup>th</sup> Nov., 2007	Clinical Pharmacology and Forensic Toxicology	Pharmacological basis of selection of antimicrobials, Drug-drug interactions, drug therapy in exotic pets, antimicrobial and hormone therapy in bovine uterine infections, Toxicology of important poisonings and their antidote therapy in farm Animals	
98.	N. Prakash	Veterinary College, Bidar, 26 <sup>th</sup> -30 <sup>th</sup> Nov., 2007	Diagnosis and control of animal diseases	Toxicology of poisonous snakes of India and care and management of envenomed patients	
99.	N. Prakash	Hospet, Dec., 2007	KVA Sponsored Technical seminar - Hospet	Principles of drug interactions of veterinary clinical importance	
100.	N. Prakash	Bijapur, Jan., 2008	KVA Sponsored Technical Seminar Bijapur	Selection of antimicrobials in veterinary clinics and important field poisonings	
101.	Vijaykumar.M	Veterinary College, Bidar, 19 <sup>th</sup> -24 <sup>th</sup> Nov., 2007	Clinical Pharmacology and Forensic Toxicology	Anti-cancerous drugs, Newer chemotherapeutics, Mycotoxins	
102.	Sunilchandra. U	Veterinary College, Bidar, 19 <sup>th</sup> -24 <sup>th</sup> Nov., 2007	-do-	Phytomedicines, Phytotoxins, drugs used in small and large animal gastroenterology	
103.	Dr. M.M.Appannavar	Bidar, 02-04-07, 10-04-07, 16-04-07, 09-05-07, 15-05-07, 23-05-07, 30-05-07	Refresher training programme on AI and infertility on Dairy animals	Breeding strategies in cattle and Buffaloes	
104.	Dr. G.S.Naveen Kumar	Bidar 02-05-07	Refresher training Programme on AI and infertility on Dairy animals	Breeding strategies in cattle and Buffaloes	

105.	Dr.M.M.Appannavar	Bidar 14-18 <sup>th</sup> Jan., 08	Livestock and Livelihood in Indian Context	Breeding strategies for sustainable livestock production	Veterinary College, Bidar
106.	Dr. G.S.Naveen Kumar	Bidar 14-18 <sup>th</sup> Jan., 08	Livestock and Livelihood in Indian Context	Emerging trends in livestock rearing	
107.	Dr.M.M.Appannavar	Bidar 11-20 feb., 08	Institute Industrial linkage training Programme	Various breeds of cattle and	
108.	Dr. G.S.Naveen Kumar	Bidar 11-20 feb., 08	Institute Industrial linkage training Programme	Characteristics of Food animals	
109.	Dr. B. Jagannatha Rao	Veterinary College, Bidar, 14 <sup>th</sup> -18 <sup>th</sup> Jan 2008	Value added Livestock products for the staff of KVVs	Preparation of value added livestock products, purpose and scope.	
110.	Dr. B. Jagannatha Rao	Veterinary College, Bidar, 11 <sup>th</sup> -20 <sup>th</sup> Feb., 2008	Abattoir practices and animal byproducts technology for the staff of Frigeno Conserva Allana Ltd., Zaheerabad	Management of abattoirs, sanitation, effluent treatment.	
111.	Dr. Vivek M. Patil	Vety. College, Bidar 14-18 Jan., 08	Livestock and Livelihoods in Indian Context for the staff of KVVs	Managerial Strategies for Sustainable Livestock Production	
112.	Dr. Vivek M. Patil	Vety. College, Bidar 11-20 Feb 2008	Technical training for the staff of Frigeno Conserva Allana Ltd. Zaheerabad	Introduction to Animal Husbandry	
113.	Dr. Basavaraj Awati	Vety. College, Bidar 19 <sup>th</sup> Nov., to 23 <sup>rd</sup> Nov., 2007	Clinical Pharmacology and Forensic Toxicology	- Do -	
114.	Dr. Basavaraj Awati	Vety. College, Bidar 26/11/2007 to 1/12/2007	Advances in Diagnosis and Treatment of Economically Important diseases of farm animals		
115.	Dr. Basavaraj Awati	Vety. College, Bidar 8/01/2008 to 12/01/2008 and 07/07/2008 to 11/07/2008	ASCAD		



116.	Dr. Basavaraj Awati	Vety. College, Bidar 11/02/2008 to 21/02/2008	Training for Production Staff of Frigerio Conserva Allana LTD. Mumbai	Introduction to Animal Husbandry	Veterinary College, Bidar
117.	Dr. P.M.Thimmareddy	Vety. College, Bidar 19 <sup>th</sup> Nov to 23 <sup>rd</sup> Nov 2007	Clinical Pharmacology and Forensic Toxicology	- Do -	
118.	Dr. P.M.Thimmareddy	Vety. College, Bidar 26/11/2007 to 1/12/2007	Advances in diagnosis and treatment of economically important diseases of farm animals	- Do -	
119.	Dr. P.M.Thimmareddy	Vety. College, Bidar 8/01/2008 to 12/01/2008 and 07/07/2008 to 11/07/2008	ASCAD	- Do -	
120.	Dr. P.M.Thimmareddy	Vety. College, Bidar 18/02/2008 to 22/02/2008 and 25/02/2008 to 29/02/2008	ASCAD Training Programme for Veterinary livestock inspectors	- Do -	
121.	Dr. N.A. Patil	Bidar 11-01-2008	ASCAD Training for officers of Dept. of A.H.&V.S.	Prevention and control of animal diseases of economic importance	
122.	Dr. N.A. Patil	Bidar 27-11-07	KVC Training Programme for officers of Dept. of A.H.&V.S.	Update on diagnosis and treatment of mastitis	
123.	Dr. N.A. Patil	Bidar 30.11.07	KVC Training Programme for officers of Dept. of A.H.&V.S.	Current concepts in management of diseases of forestomach in farm animals	
124.	Dr. Vivek R. Kasaraliker	Bidar 23-11-2007	KVC Training Programme for officers of Dept. of 32A.H.&V.S.	Emergency and critical care in veterinary clinical practice	
125.	Dr. Vivek R. Kasaraliker	Bidar 28.11.07	KVC Training Programme for officers of Dept. of A.H.&V.S.	Recent concepts in diagnosis and therapeutic management of production diseases of dairy Animals	
126.	Dr. Vivek R. Kasaraliker	Bidar 01.12.07	KVC Training Programme for officers of Dept. of A.H.&V.S.	Importance and significance of NADRES	

127.	Dr. S.P. Sarangmath	Bidar 28.11.07	KVC Training Programme for officers of Dept of A.H.&V.S	Recent concepts in therapeutic management of dermatological disorders in livestock	Veterinary College, Bidar
128.	Dr. Vivek R. Kasaraliker	Bidar 10-01-2008	ASCAD Training for officers of Dept. of A.H.&V.S.	Diseases of wild life encountered in Karnataka	
129.	Dr. Vivek R. Kasaraliker	Bidar 12-01-2008	ASCAD Training for officers of Dept. of A.H.&V.S.	Epidemiological patterns of animal diseases in Karnataka	
130.	Dr. S.P. Sarangmath	Bidar 11-01-2008	ASCAD Training for officers of Dept. of A.H.&V.S.	Poultry diseases	
131.	Dr. N.A. Patil	Bidar 18-02-08	ASCAD training programme for Veterinary Livestock Inspectors of Dept.of AH & VS	First aid for diseased animals	
132.	Dr. N.A. Patil	Bidar 19-02-08	ASCAD training programme for Veterinary Livestock Inspectors of Dept.of AH & VS	Common diseases of livestock	
133.	Dr. N.A. Patil	Bidar 25-02-08	ASCAD Training programme for Veterinary Livestock Inspectors of Dept.of AH & VS	First aid for diseased animals	
134.	Dr. N.A. Patil	Bidar 26-02-08	ASCAD Training Programme for Veterinary Livestock Inspectors of Dept.of AH & VS	Common diseases of livestock	
135.	Dr. K.Ganesh Udupa	Vety. College, Bidar on 29-09-07	"Human resource development" From 24-09-07 to 29-09-07	"Effective utilization of human resources for animal health management in Veterinary services"	
136.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 27-11-07	"Advances in diagnosis and treatment of Economically Important diseases of farm animals" from 26-11-2007 to 1-12-2007	"Current status of Bluetongue and PPR in Karnataka"	



137.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 29-11-07	"Advances in diagnosis and treatment of economically important diseases of farm animals" from 26-11-07 to 1-12-2007	"Effective utilization of human resources for animal health management in Veterinary services"	
138.	Dr. Sandeep Halmandge	Vety. College, Bidar on 01-12-07	"Advances in diagnosis and treatment of economically important diseases" from 26-11-2007 to 1-12-2007	Management of infectious and non infectious cause of Abortion	
139.	Dr. K.Ganesh Udupa	Vety. College, Bidar on 09-01-08	"Diagnosis and control of animal diseases" under ASCAD Programme from 8-01-2008 to 12-01-2008	"Diagnosis of Bluetongue in sheep and goats"	
140.	Dr. Ravindra Bhojar and Dr. Sandeep Halmandge	Vety. College, Bidar on 10-01-2008	"Diagnosis and control of animal diseases" under ASCAD Programme from 8-01-2008 to 12-01-2008	"Sero-epidemiology of animal diseases with special reference to PPR and PPR control programme"	Veterinary College, Bidar
141.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 10-01-2008	"Diagnosis and control of animal diseases" under ASCAD Programme from 8-01-2008 to 12-01-2008	" FMD control programme"	
142.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 16-01-2008	"Livestock and livelihoods in Indian context" from 14-1-2008 to 18-01-2008	"Preventive health care strategies for sustainable livestock production"	
143.	K.Ganesh Udupa	Vety. College, Bidar On 05-02-2008	"Diagnosis and control of animal diseases" under ASCAD Programme From 4-02-08 to 8-02-08	"Diagnosis of Bluetongue in sheep and goats"	

144.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 06-02-08	"Diagnosis and control of animal diseases" under ASCAD Programme from 4-02-2008 to 8-02-2008	"FMD control programme"	Veterinary College, Bidar
145.	Dr.Sandeep Halmandge	Vety. College, Bidar on 07-02-2008	"Diagnosis and control of animal diseases" under ASCAD Programme from 4-02-2008 to 8-02-2008	"Sero-epidemiology of animal diseases with special reference to PPR and PPR control programme"	
146.	Dr. Vivek R. Kasaralikar & Dr. K.Ganesh Udupa	Vety. College, Bidar on 08-02-2008	"Diagnosis and control of animal diseases" under ASCAD Programme from 4-02-2008 to 8-02-2008	"Epidemiological patterns of animal diseases in Karnataka"	
147.	Dr. K. Ganesh Udupa on 06-02-08	Vety. College, Bidar on 20-02-2008	Training programme to Veterinary Livestock inspectors under ASCAD From 18-02-2008 to 22-02-2008	"Role of Livestock inspectors in prevention and control of animal diseases" in Kannada	
148.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 21-02-2008	Training programme to veterinary livestock inspectors under ASCAD from 18-02-2008 to 22-02-2008	"Outbreak management and reporting of diseases" in Kannada	
149.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 27-02-2008	Training programme to veterinary Livestock inspectors under ASCAD From 25-02-08 to 02-03-08	"Role of paraveterinarians in prevention and control of animal diseases" in Kannada	
150.	Dr. K. Ganesh Udupa	Vety. College, Bidar on 28-02-2008	Training programme to Veterinary Livestock Inspectors under ASCAD from 25-02-08 to 02-03-08	"Outbreak management and reporting of diseases" in Kannada	



151.	Dr. K. Ganesh Udupa	Karnataka Vety Association Bagalkote, Karnataka on 02-03-08	District Seminar on "Control of infectious diseases" to Vety.officers & paraveterinarians of Bagalkote Dist.	"Control of Infectious diseases of cattle"	Veterinary College, Bidar
152.	Dr. R. B.Dhabale	Veterinary College, Bidar, Jan. 2008	ASCAD	Sexually transmitted diseases of breeding bull & their control Measures	
153.	Dr. B. V. Shivaprakash	ARGO, Vety. College, Bidar	Training on AI and Infertility in Dairy Cattle and Buffalo for Vet. Officers	Laparoscopic surgery in animal reproduction	
154.	Dr. B. V. Shivaprakash	7-5-07 to 11-5-07	-do-	Laparoscopic surgery in animal reproduction	
155.	Dr. B. V. Shivaprakash	14-5-07 to 18-5-07	-do-	Laparoscopic surgery in animal reproduction	
156.	Dr. B. V. Shivaprakash	21-5-07 to 25-5-07	-do-	Laparoscopic surgery in animal reproduction	
157.		28-5-07 to 1-6-07	-do-	Laparoscopic surgery in animal reproduction	
158.	Dr. D. Dilipkumar	Almatti, 15-6-07	Technical Seminar of Dist. KVA	Common Surgical problems	
159.	Dr. B. V. Shivaprakash	Bangalore, 10-7-07	Technical Meet of Karnataka Goshala Mahasangh	Surgical care of cows in Goshalas	
160.	Dr. B. V. Shivaprakash	Dept. of Surgery and Radiology, Vety. College, Bidar,	Refresher training on X-ray and orthopaedic Surgery, Sponsored by KVC	Establishment of X-ray unit	
161.	Dr. B. V. Shivaprakash	20-25 <sup>th</sup> Aug, 07	-do-	Bone Plating	
162.	Dr. B. V. Shivaprakash	3-9-07 to 8-9-07	-do-	Interlocking nailing	
163.	Dr. B. V. Shivaprakash	9-9-07 to 17-9-07	-do-	Patellar desmotomy	
164.	Dr. D. Dilipkumar	Dept. of Surgery and Radiology, Vety. College, Bidar,	Refresher training on X-ray and Surgery, Sponsored by KVC	Dark room processing	
165.	Dr. D. Dilipkumar	20-25 <sup>th</sup> Aug, 2007	-do-	Radiographic quality	
166.	Dr. D. Dilipkumar	3-9-07 to 8-9-07	-do-	Intramedullary pinning	
167.	Dr. D. Dilipkumar	9-9-07 to 17-9-07	-do-		
168.	Dr. Ravi Raidurg	Dept. of Surgery and Radiology, Vety. College, Bidar,	Training on X-ray & orthopaedic Surgery, Sponsored by KVC	Radiation protection external immobilization of fracture	

169		20-25 <sup>th</sup> Aug. 07				
170		3-9-07 to 8-9-07				
171		17-9-07 to 2-9-07				
172	Dr. S. M. Usturge	Dept. of Surgery and Radiology, Vety. College, Bidar, 20-25 <sup>th</sup> Aug. 2007	training on X-ray and orthopaedic Surgery, Sponsored by KVC	Radiographic positioning		
173	Dr. S. M. Usturge	3-9-07 to 8-9-07	-do-	Radiographic positioning		
174	Dr. S. M. Usturge	2-9-07 to 17-9-07	-do-	Radiographic positioning		
175	Dr. B. V. Shivaprakash	Bidar, 20-12-07	Biodiversity Awareness, Karnataka Rajya Vijnyana Parishat, Karnataka College, Bidar	Animal Biodeversity, health and plastic hazards		
176	Dr. B. V. Shivaprakash	Kamathana, 20-12-07	Bhanamathy awareness, Karnataka Rajya Vijnyana Parishat,	Myths and practices of farmers on animal surgical diseases		
177	Dr. B. V. Shivaprakash	Veterinary College, Bidar	ASCAD for vet. Officers	Surgical disorders of economic importance	Veterinary College, Bidar	
178	Dr. D. Dilipkumar	Veterinary College, Bidar	ASCAD for VLI's	Cleanliness in hospital premises		
179	Dr. Pradeep Kumar	Veterinary college bidar on 21/02/08 & 28/02/08	ASCAD for VLI's	Diseases transmissible to man from animals and precautions		
180	Dr. Pradeep Kumar	Gulbarga KMF	Farmers training Programme organised by KMF	from animals and precautions		
181	Dr. Pradeep Kumar	Veterinary College Bidar on 09/01/08 & 10/07/08	ASCAD for Vet. Officers	Diagnosis of tuberculosis and johne's disease		
182	Dr. Pradeep Kumar	Veterinary College Bidar on 11/02/08 to 1/02/08	Short term course for the production staff of Allana Ltd. Mumbai	1. zoonosis and human health 2. Controlling food hazards- Role of supervisors		
183	Vilas M. vaidya	Veterinary College Bidar on 11/02/08 to 21/02/08	Short term course for the production staff Allana Ltd. Mumbai	1) Food borne infections and intoxications 2) Micro-organisms found in food 3) Potability of water		
184	Dr. Chidanandaiah	Siddlipura, Shimoga 24.03.2008	"ಗ್ರಾಮೀಣ ಹಣಕಾಸು ವ್ಯವಸ್ಥೆ ಮತ್ತು ಮಹಿಳೆಯರ ಪಾತ್ರ"	Value addition of milk & different value added milk products are discussed		Veterinary College, Shimoga
185	Dr. Manjunatha, L.	Veterinary College, Bidar, 02.10.2007	Extension tools & Techniques in Veterinary Practice	Principles of planning, selection, preparation and evaluation of Visual aids		



186.	Dr. Manjunatha, L	Veterinary College, Bidar; 02.10.2007	"do"	Demonstration on preparation and presentation of different visual aids	Veterinary College, Shimoga
187.	Dr. Manjunatha, L	Sidlipura, Shimoga, 23.03.2008	NSS Annual Camp	Livestock breeding and disease control	
188.	Mr. Eshwara, K.A.	Sahyadri College Shimoga March, 2008	'Olympics and international peace'	About sports	
189.	Dr.M.S.Vasanth	Bangalore Urban District 28.4.2007	Celebrating our diversity	Karnataka Veterinary Association	Veterinary College, Hassan.
190.	Dr.M.S.Vasanth	Hassan 04.04.2008	Recent advances in Veterinary surgical techniques	Karnataka Veterinary Association	
191.	Dr. Nadim Feroze		Clean Meat Production	Dept. of livestock management	Dairy Science College, Bangalore
192.	Dr. Lalith Achoth	Hyderabad 5-6 Feb., 2008	Forecasting Techniques (ICAR, Summer Institute)	NAARM, Hyderabad	
193.	Dr. Lalith Achoth	9 <sup>th</sup> March, 2008	Using MOTAD in selecting marketing Contracts (Forward Market Commission)	UAS Bangalore	
194.	Dr. S.Benakappa	Kundapur 13-06-2007	Training on scientific shrimp farming to Farmers organized by BFDA, Udupi	Identification of shrimps and fin fishes suitable for brackish water aquaculture	College of Fisheries, Mangalore
195.	IQLAS Ahmed	Kundapur 18-06-2007	Scientific Shrimp Farming	Water quality and sold management in shrimp farms.	
196.	BFDA	Kundapur 14-06-07	Selecting and transportation shrimp farming	Shrimp farmer	
197.	K.V.K.	Kankanady 16-05-07	Common diseases of orname fishes	Aquarium fabrication	
198.	Nalken	Gnithigar Sulya 20-12-2007	Integrated fish farming	Intensive fish farming	
199.	Julson	Sulya 29-12-07	Integrated fish farming	Intensive fish farming	
		BFDA Kundapur	Selecting and Transportation of seeds	Shrimp farmer	
200.	Dr. Mohan. P	Bogadi, High School	Lecture	Environmental Pollution - 100 students participated	LRIC Naga-mangala

201.	Dr. Mohan. P	Knathapura, High School	Lecture	Environmental Pollution - 150 students participated	LRIC Naga-mangala
202.	Dr.G.Y.Keshavappa	Farmers Training Institute (FTI), 30-01-2008	Integrated Farming System for Agri-Entrepreneurs	Integrated Fish Farming	FRIC, Hebbal Bangalore
203.	Dr.G.Y.Keshavappa	FTI 29-10-2007	Integrated Farming System for Agri-Entrepreneurs	Integrated Fish Farming	
204.	Dr.G.Y.Keshavappa	IAH and VB Training Centre, Hebbal, Bangalore on 11, 12 and 15 <sup>th</sup> December	Intensive aquaculture in ponds and tanks	Integrated Fish Farming, Fish seed production and pond preparation	
205.	Dr.G.Y.Keshavappa	IAH and VB Training Centre, Hebbal, Bangalore on 2/11/07 and 26/10/07	Intensive aquaculture in ponds and tanks	Integrated Fish Farming, Fish seed production and pond preparation	
206.	Dr.G.Y.Keshavappa	IAH and VB Training Centre, Hebbal, Bangalore on 25/9/2007	Intensive aquaculture in ponds and tanks	Integrated Fish Farming	
207.	Dr.G.Y.Keshavappa	Peninsular Aquaculture Division, CIFA, Hesaraghatta lake, Bangalore	Intensive aquaculture in ponds and tanks	Community based aquaculture in tanks, ponds and aquaculture in irrigation ponds/ tanks	
208.	Dr. K.V. Mohire	FTI, UAS (B), 8-6-07, 22-6-07, 6-7-07, 20-7-07, 29-10-07, 29-11-07 (6 Training Programs)	Integrated farming Agri. Entrepreneur from SIRD Assam	Intensive Fish farming	
209.	Dr. K.V. Mohire	NFDB Sponsored 20-29 <sup>th</sup> Aug.2007 17-26 <sup>th</sup> Sept.2007 25 <sup>th</sup> Oct. 3 <sup>rd</sup> Nov. 14 23 <sup>rd</sup> Dec.2007 (4 training programs)	Intensive fish farming.	* Intensive Aqua. In ponds and tanks * Recent Development in fish farming * Sterile common carp (Chakri) - a new candidate for aquaculture. * Fish pond site selection, construction and different fish culture methods.	
210.	Dr. K.V. Mohire	Mangala Bhavan 5 <sup>th</sup> Nov. 2007	T.V.R. Pillay Memorial Lecture	T.V.R. Pillay Foundation, Mangalore	
211.	Dr. K.V. Mohire	Mangala Bhavan 7 <sup>th</sup> Nov. 2007	Interface workshop of key stake holders for promotion	UASB in collaboration with Aqua REACH Foundation Bangalore	



			of ornamental fish production and trade in Karnataka		
212.	Mr. B.R.Pujar	MFRIC, Ankola 18.4.07	Farm Activities	Explained Farm activities and pond construction to RAWE students from College of Fisheries, Mangalore.	
213.	Dr.S.N.Sathyanarayanappa	BFDA, Karwar, on 26.7.07	Shrimp farmers training programme	Fishing Gears and Crafts employed in Shrimp Farming	
214.	Dr.S.N.Sathyanarayanappa	BFDA, Karwar, on 27.7.07	Shrimp farmers training programme	Fishing Gears and Crafts employed in Estuaries and Marine waters	
215.	Dr.S.N.Sathyanarayanappa	BFDA, Karwar, on 31.7.07	Shrimp farmers training programme	Netting materials for fishing gears and Electronic equipments onboard fishing boats.	
216.	Dr.S.N.Sathyanarayanappa	BFDA, Karwar, on 7.8.07	Shrimp farmers training programme	Fresh water fish culture	
217.	Mr. B.R.Pujar	Belambara, Ankola 07.06.07	Fish quality management and sustainable fishing	Fish quality management from immediate Harvest to Sale	
218.	Dr.lakshmipathi M.T.	Belambara, ankola 07.06.07	Fish quality management and Sustainable Fishing	Eco-friendly and sustainable fishing	
219.	Mr. B.R.Pujar	Fish landing centre Honnavara 8.06.2007 (For ladies)	Fish quality management and sustainable fishing	Fish quality management from immediate Harvest to Sale	FRIC, Ankola
220.	Mr. B.R.Pujar	Fish landing centre Honnavara 08.06.2007 (For Gents)	Fish quality management and sustainable fishing	Fish quality management from immediate Harvest to Sale	
221.	Mr. B.R.Pujar	BFDA, Karwar, on 3.8.07	Shrimp farmers training Programme	Harvest and Post harvest handling of shrimps	
222.	Dr.lakshmipathi M.T.	BFDA, Karwar, on 3.8.07	Shrimp farmers training Programme	Eco-friendly sustainable Shrimp Farming	
223.	Dr.S.N.Sathyanarayanappa	MFRIC, Training hall, 7.3.08	Recent Advances in coastal Aquaculture	Fishing Gears and Crafts employed in Shrimp Farming	
224.	Mr. B.R.Pujar	MFRIC, Training hall, 8.3.08	Recent Advances in coastal Aquaculture	Importance of Feed Management in Shrimp Farming	
225.	Mr. B.R.Pujar	MFRIC, Training hall, 11.3.08	Recent Advances in coastal Aquaculture	Important Brackish water fishes and its cultural importance.	
226.	Dr. Lakshmipathi M.T.	MFRIC, Training hall, 11.3.08	Recent Advances in coastal Aquaculture	Water quality Management in Shrimp ponds	

227.	Dr.S.N.Sethyanarayanappa	MFRIC, Training hall, 11.3.08	Recent Advances in coastal Aquaculture	Fresh water fish culture	FRIC, Ankola
228.	Mr. B.R.Pujar	Haldipur (conducted by BFDA) 25.3.08	Good Management Practices in Shrimp Farming	Feed Management in Shrimp Farming	
229.	Dr. Lakshmipathi M.T.	Haldipur (conducted by BFDA) 25.3.08	Good Management Practices in Shrimp Farming	Shrimp Pond Bottom Management	
230.	Mr. B.R.Pujar	MFRIC, Ankola, 9.4.08	Shrimp Farming	Shrimp farming and on going research about immunostimulants use in shrimp farming to RAWE students from College of Fisheries, Mangalore	

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

Sl. No.	Department	Place & Date	Type of training	Title	No. of Participants	Resource persons	Institute
1.	Pathology	21 <sup>st</sup> -25 <sup>th</sup> Jan, 08 4 <sup>th</sup> - 8 <sup>th</sup> Feb, 08	Disease Diagnosis	ASCAD Training Programme for Para-veterinarians	38		Veterinary College, Hebbal, Bangalore.
2.	Pathology	17 <sup>th</sup> -19 <sup>th</sup> Mar, 08 24 <sup>th</sup> -26 <sup>th</sup> Mar, 08	Diagnosis of Rabies	Training on Diagnosis of Rabies under CVE	38	10	
3.	LPM	KVC, 8.4.2007	Farmers training	Livestock Development Issues	40	Dr. R. Bhaskaran	
4.	LPM	FTI, 4.5.07	Farmers training	Housing for cattle WYTEP Programme	25	Dr.R.Bhaskaran	
5.	LPM	FTI, 15.5.07	Farmers training	Vermi Compost WYTEP Programme	30	Dr.R.Bhaskaran	
6.	LPM	Extension unit, UAS, 29.5.07	Officers training	Establishment of Dairy farm	40	Dr.R.Bhaskaran	
7.	LPM	Directorate of Extension, UAS, 20.8.07	Officers training	Establishment of Dairy farm	40	Dr.R.Bhaskaran	
8.	LPM	LPT department, 4.12.07	Officers training	Clean milk production	30	Dr.R.Bhaskaran	
9.	LPM	Veterinary College, Hebbal 21-1-08	Officers training ASCAD	Dairy farming	30	Dr. S. B. Prasanna	
10.	LPM	Veterinary College Hebbal, 4-2-08	Officers training ASCAD	Cattle Husbandry	30	Dr. S. B. Prasanna	



11	LPM	Veterinary College Hebbal 7-2-08	Farmers training,	Cattle Husbandry Silage making	30	Dr.S.B. Prasanna	Veterinary College, Hebbal, Bangalore
12	LPM	Veterinary College, Hebbal	Frequently Visiting farmers,	Cattle Husbandry	5	Dr. S. B. Prasanna	
13	LPM	Dharwad, 14.7.07	-	Soya quality and its use in Animals	40 50	Dr. U.Krishna moorthy	
14	LPM	New Delhi, 9.8.07	-	Presentation of work done		Dr. U.Krishna moorthy	
15	LPM	NIANP, Bangalore 4.12.07	-	Feed and fodder Evaluation	30	Dr. U. Krishna moorthy	
16	LPM	IVRI, 12.3.08 Izatnagar	-	National workshop	40	Dr. U. Krishna moorthy	
17	Dept. of Vety. & A.H Extension	Humanabad 25-05-2007	Off Campus	Bidri goat rearing	10	Dr. K.C. Veeranna	Veterinary College, Bidar
18	Dept. of Vety. & A.H Extension	Rajola Basavakalyana 02-06-2007	Off Campus	Bidri goat rearing	20	Dr. K.C. Veeranna	
19	Dept. of Vety. & A.H Extension	Sastapur Basavakalyana 03-06-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
20	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 03-06-2007	On Campus	Complete feed making	20	Dr. K.C. Veeranna	
21	Dept. of Vety. & A.H Extension	Halahalli Thanda 10-06-2007	Off Campus	Goat rearing	20	Dr. K.C. Veeranna	
22	Dept. of Vety. & A.H Extension	Walkhindi 20-06-2007	Off Campus	Goat rearing	20	Dr. K.C. Veeranna	
23	Dept. of Vety. & A.H Extension	Hoakhrana 21-06-2007	Off Campus	Goat rearing	20	Dr. K.C. Veeranna	
24	Dept. of Vety. & A.H Extension	Kamthana 21-06-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
25	Dept. of Vety. & A.H Extension	Rajola 26-06-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
26	Dept. of Vety. & A.H Extension	Sastapur 26-06-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
27	Dept. of Vety. & A.H Extension	Rampur 15-07-2007	Off Campus	Management of goats under stall Feeding	20	Dr. K.C. Veeranna	
28	Dept. of Vety. & A.H Extension	Kodambal 20-07-2007	Off Campus	Identification of goats	10	Dr. K.C. Veeranna	
29	Dept. of Vety. & A.H Extension	Walkhindi 20-07-2007	Off Campus	Identification of goats	10	Dr. K.C. Veeranna	
30	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 24-07-2007	On Campus	Feed making	20	Dr. K.C. Veeranna	
31	Dept. of Vety. & A.H Extension	Kamthana 25-07-2007	Off Campus	Goat rearing under stall Feeding	10	Dr. K.C. Veeranna	

32	Dept. of Vety. & A.H Extension	Rampur 28-07-2007	Off Campus	Goat rearing	20	Dr. K.C. Veeranna	Veterinary College, Bidar
33	Dept. of Vety. & A.H Extension	Aliyabad 30-07-2007	Off Campus	Self Help Groups	10	Dr. K.C. Veeranna	
34	Dept. of Vety. & A.H Extension	Aliyabad 22-08-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
35	Dept. of Vety. & A.H Extension	Kamthana 23-10-2007	Off Campus	Vaccination	10	Dr. K.C. Veeranna	
36	Dept. of Vety. & A.H Extension	Aliyabad 24-10-2007	Off Campus	Vaccination	10	Dr. K.C. Veeranna	
37	Dept. of Vety. & A.H Extension	Sastapur 25-01-2007	Off Campus	Vaccination	10	Dr. K.C. Veeranna	
38	Dept. of Vety. & A.H Extension	Halahalli Thanda 26-10-2007	Off Campus	Vaccination	20	Dr. K.C. Veeranna	
39	Dept. of Vety. & A.H Extension	Hokhrana 28-10-2007	Off Campus	Management of goats Under stall Feeding	20	Dr. K.C. Veeranna	
40	Dept. of Vety. & A.H Extension	Kodambal 31-10-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
41	Dept. of Vety. & A.H Extension	Walkhindi 31-10-2007	Off Campus	Management of goats under stall Feeding	10	Dr. K.C. Veeranna	
42	Dept. of Vety. & A.H Extension	Kamthana 08-11-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
43	Dept. of Vety. & A.H Extension	Kamthana 29-11-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
44	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 08-12-2007	On Campus	Complete feed preparation	10	Dr. K.C. Veeranna	
45	Dept. of Vety. & A.H Extension	Yarandgi 20-12-2007	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
46	Dept. of Vety. & A.H Extension	Dabka 24-12-2007	Off Campus	LIG Formation	10	Dr. K.C. Veeranna	
47	Dept. of Vety. & A.H Extension	Kallure 25-12-2007	Off Campus	LIG Formation	10	Dr. K.C. Veeranna	
48	Dept. of Vety. & A.H Extension	Halahalli (K) 28-12-2007	Off Campus	Management of goats under stall Feeding	10	Dr. K.C. Veeranna	
49	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 12-01-2008	On Campus	Goat rearing	10	Dr. K.C. Veeranna	
50	Dept. of Vety. & A.H Extension	Yarandgi 25-01-2008	Off Campus	Goat rearing	10	Dr. K.C. Veeranna	
51	Dept. of Vety. & A.H Extension	Halahalli 24-01-2008	Off Campus	Management of goats under stall Feeding	9	Dr. K.C. Veeranna	
52	Dept. of Vety. & A.H Extension	Sastapur 14-02-2008	Off Campus	Vaccination	10	Dr. K.C. Veeranna	



53	Dept. of Vety. & A.H Extension	Kamthana 14-02-2008	Off Campus	Vaccination	20	Dr. K.C. Veeranna	Veterinary College, Bidar	
54	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 19-02-2008	On Campus	Goat rearing	10	Dr. K.C. Veeranna		
55	Dept. of Vety. & A.H Extension	Veterinary College, Bidar 20-02-2008	On Campus	Feed mixing	10	Dr. K.C. Veeranna		
56	Pharmacology and Toxicology	Veterinary College, Bidar, 19 <sup>th</sup> -24 <sup>th</sup> Nov 2007	Technical	Clinical Pharmacology and Forensic Toxicology	28	Ten academicians		
57	Physical Education	Veterinary College, Bidar 11 <sup>th</sup> to 19 <sup>th</sup> Feb, 2008	Training and Coaching to the University sports team	-	35		Veterinary College, Shimoga.	
58	Physical Education	MPKV, Rahuri, Maharashtra 22 <sup>nd</sup> to 25 <sup>th</sup> Feb, 2008	Accompanied as a team Manager of KVAFSU	All India Inter-Agricultural sports	35			
59	Dairy science College	Doddla Tumukur 9 JAN 9-1,2008	Milk production & collection	As part of RDWEP for IV year B.Tech (D.Tech) Students	24	Dr. R. Krishna	Dairy Science College, Hebbal, Bangalore	
60	Dept. of Fisheries Resources and Management	College of Fisheries, Mangalore 03.01.2008	Training on scientific shrimp farming to farmers organized by BFDA, Udupi	Identification of shrimps & fin fishes suitable for brackish water Aquaculture	20	Dr. S. Benakappa	College of Fisheries, Mangalore.	
61	-----do-----	College of Fisheries, Mangalore 06.02.2008	Special training organized to BCA-FERAL students of Junita College, USA	Field visit followed by lecture on Taxonomic Characters of different fin fish species	5	Dr. S. Benakappa		
62	-----do---	College of Fisheries, Mangalore 12.02.2008	Special training organized to BCA-FERAL students of Junita College, USA	Lecture on techniques in Fishery Biology	5	Dr. (Mrs.) Mridula R. Mendon		
63	-----do-	College of Fisheries Mangalore 06-02-08	Special training organized to BCA-FERAL students of Junita College USA	Anatomical studies of fin fish and shellfishes	5	Mr. S.R. Somashekar		
64	LRIC (Deoni)	28.01.08	Clean Milk production	KMF	37	Dr. Satish C Biradar	LRIC (Deoni), Karanja, Bidar	
65	Dr. Satish C. Biradar organised 5 trainings programme on Dairy Training sponsored by Orbil NGO for SHG Members							LRIC (Deoni), Karanja, Bidar

**5. Trainings / Workshops / Seminars participated as Trainee Scientists**

Sl. No.	Name of the teacher	Place & Date	Title	Organizer	Institute	
<b>Department of Pathology</b>						
1	Dr M.Sathyanarana & Dr Suguna Rao	Pune on 13-15 <sup>th</sup> March, 2008	First Annual Course in Toxicologic Pathology Road to Toxic Pathology	STPI	Veterinary College, Hebbal, Bangalore.	
2	Dr H D Narayan Swamy	Oct-Nov 07	National Symposium & Annual Conference of IAVP	IAVP		
3	Dr Kavitha Rani B	Veterinary College, Bangalore, 17 <sup>th</sup> 19 <sup>th</sup> Mar, 08	Training on Diagnosis of Rabies under CVE	IVC & Dept of Pathology, Veterinary College, Bangalore		
4	Dr Kavitha Rani B	Feb 22-24, 2008	Workshop on Concepts of Animal Welfare	Commonwealth Veterinary Association		
<b>Department of LPT</b>						
5	Dr. S. Wilfred Ruban	GBPUA & T, Pantnagar	Winter School on "Pesticide & Veterinary drug residues in foods of animal origin"	ICAR (21 days)		
<b>Department of LPM</b>						
6.	Dr. Y.B. Rajeshwari	26.4.07, Hariyur Village	Village adaptation and Rabbit rearing	Veterinary College Bangalore		
7.	Dr. Y.B. Rajeshwari	CFTRI Campus, Mysore. 14-18 May 2007	Laboratory Animal Techniques Ethics & Welfare	Central food Technological Research Institute, Mysore		
8.	Dr. R. Bhaskaran	Bangalore 4.12.07	Clean Milk Production	Dept. of LPT, Veterinary College, Bangalore		
9	Dr. Y.B. Rajeshwari	Bangalore 29.12.07	Lab Animal Management	Indian Institute of Science		
10	Dr. U. Krishnamoorthy Dr. R. Bhaskaran Dr. Y.B. Rajeshwari and Dr. S.B. Prasanna	Bangalore 22.01.08 & 5.2.08	ASCAD Training	Veterinary College, Bangalore		
11	Dr. U. Krishnamoorthy Dr. R. Bhaskaran Dr. Y.B. Rajeshwari and Dr. S.B. Prasanna	Bangalore 14.02.08	National Symposium	Dept. of ABGB, Veterinary College, Bangalore		
12	Dr.R. Bhaskaran Dr. S.B. Prasanna	22.02.08	International Symposium	Commonwealth Veterinary Association & NIANP, Bangalore		
13	Dr. Y.B. Rajeshwari	Kannada Sabhagana, Hebbal, Bangalore, 15-03-08	Seminar on Grooming With Practical Sessions	The Kennel club of India along with M/s.Agrani Product		
14	Dr. Y.B. Rajeshwari	Bogor Indonesia 24-25 July 2007	International Conference on Rabbit Production	Indonesian Centre For Animal Research and Development. Indonesian Branch World Rabbit Science Association District Government of Bogor		



Department of ABGB				
15	Dr. M.R.Jayashankar	21 <sup>st</sup> & 22 <sup>nd</sup> Sept '07 NIANP, Adugodi	Veterinary Education and Practices-Present Status & Future Needs to meet the emerging Challenges	VCI
16	R. Jayashree	Veterinary College, Hebbal, 24 <sup>th</sup> & 25 <sup>th</sup> Jan, 2008	Role of Women Veterinarian in augmenting rural economy through Animal Husbandry	IALV(Karnataka Chapter)
17	Dr.M.R.Jayashankar Dr. C.S.Nagaraj & Dr. R.Jayashree	15 <sup>th</sup> & 16 <sup>th</sup> Feb, 2008 at Veterinary College, Hebbal, Bangalore.	Redefining Role of Indigenous Animal genetic Resources in Rural development.	SOC DAB
18	Dr. M.R.Jayashankar Dr.C.S.Nagaraj	22 <sup>nd</sup> to 24 <sup>th</sup> Feb, 08 workshop held at NIANP, Adugodi, Bangalore	Concepts in Animal Welfare	Commonwealth Veterinary Association
19	Dr. R.Jayashree	15 <sup>th</sup> March, 2008, Veterinary College, Hebbal, Bangalore.	Training programme on pet Grooming at Veterinary college, Bangalore	Kennel Club of India
Department of Poultry Science				
20	Dr. Jayanaik	FTI, Hebbal, Bangalore	4-7-2007 to 24-1-2008 7 guest lectures	Feed formulation, mixing and distribution demonstrations FTI, UAS, GKVK, Bangalore.
Department of Veterinary Public Health				
21	Leena , G	Dairy Science College, Bangalore KVAFSU, from 10-11, Aug, 2007.	Workshop on the "Application of Seven Principles of Hazard Analysis and Critical Control Point (HACCP) Food Safety System" in the Food Industry	Dairy Science College KVAFSU and The University of Nebraska, USA
22	Leena , G PD_ADMAS,	Bangalore-24, 29 <sup>th</sup> Nov 2007	Expert Lecture on "Laboratory diagnosis of Leptospirosis advantages and Drawbacks"	Project Directorate on Disease Monitoring and Surveillance, Bangalore-24
22	Leena , G	PD_ADMAS, Bangalore-24, 29 <sup>th</sup> Nov 2007	Expert Lecture on "Laboratory diagnosis of Leptospirosis advantages and drawbacks"	Project Directorate on Disease Monitoring and Surveillance, Bangalore-24
23	Leena , G	Veterinary College, Bangalore 24 <sup>th</sup> & 25 <sup>th</sup> Jan, 2008	"Role of women veterinarians in augmenting rural economy through Animal Husbandry"	Indian Association of Lady Veterinarians Veterinary College, Bangalore. KVAFSU

Veterinary College, Hebbal, Bangalore.

24	Leena, G	G.B. Pant University of Agric. & Tech., Pantnagar-263145, Feb, 24 <sup>th</sup> to Mar 15 <sup>th</sup> 2008	ICAR sponsored Winter School on "Pesticides and veterinary drug residues in foods of animal origin"	Dept of Veterinary Public Health, College of Veterinary & Animal Sciences, G.B. Pant University of Agric. & Tech., Pantnagar-263145,	
<b>Department of Preventive Medicine</b>					
25	M.C. Anil Kumar	Bangalore 20 <sup>th</sup> & 21 <sup>st</sup> April 2008	KVA Technical Seminar	Karnataka Veterinary Association	
26	P. T. Ramesh	Bangalore 22 <sup>nd</sup> -24 <sup>th</sup> Feb 2007	Animal Welfare Concepts	Commonwealth Veterinary Association	
<b>Teaching Veterinary Clinical Service Complex, Yelahanka</b>					
27	Dr. M.A. Kshama, Assist. Professor	Veterinary College, Bangalore 24-25 <sup>th</sup> Jan. 2008	Role of Women Veterinarians in Augmenting Rural Economy Through Animal Husbandry	ILVA (Karnataka Chapter) & Vety. College, KVAFSU, Hebbal, Bangalore 24	
28	Dr. M.A. Kshama, Assist. Professor	The College of Agriculture, Mandya 10- 15 <sup>th</sup> March, 08	Faculty Development Program on educational Methodology and Instructional Technology	NAARM, Rajendranagar, Hyderabad	
29	Dr. B.M. Ravidranatha, Assist. Professor	Veterinary college, Hebbal, Bangalore 7 <sup>th</sup> March, 2008	Practical Approaches to Infertility in Livestock & Companion Animals	Dept. of ARGO, Vety. College, KVAFSU, Hebbal, Bangalore 24	Veterinary College, Hebbal, Bangalore.
<b>Department of Veterinary Microbiology</b>					
30	Dr. B. M. Veeregowda	Veterinary College, Chennai, 06.02.2008 to 26.02.2008	Molecular Methods of Poultry Disease Diagnosis	Dept of Animal Biotechnology, TANUVASU, Chennai	
31	Dr. B. M. Veeregowda	VC Farm, Mandya, 10.03.08 - 15.03.08	Educational Methodology & Instructional Technology	NAARM & UAS, Bangalore	
<b>Department of Surgery and Radiology</b>					
32	Dr L. Ranganath	NIANP, Adugodi, Bangalore 22 <sup>nd</sup> - 24 <sup>th</sup> February, 2008	Animal Welfare	Common Wealth Veterinary Associations	
33	Dr L. Ranganath	Veterinary College, Bangalore 15.3.2008	Pet grooming	Mysore Kennel club	
<b>Department of Pharmacology</b>					
34	Dr N B Shridhar	Agriculture College Mandya 10-23 March 2008	Advances in Teaching Methodologies	NAARM Hyderabad	
<b>Department of ARGO</b>					
35	G. Sudha	Bangalore, 24-25 January, 2008	IALV conference	IALV	
36	G. Sudha	Mandya, 10/3/08-15/03/08	Training program on educational methods	NAARM	
37	Dr. K.C. Veeranna	BAIF, Pune 11-04-2007 to 13-04-2007	National Workshop on addressing Challenges in Extension	CALPI & RAGHOCOVAS, Pondicherry	
38	Dr. Shivakumar K. Raddler	NAARM, Hyderabad 06-03-2008 to 07-03-2008	Field Experience Training for 82 <sup>nd</sup> FOCARS scientists	NAARM, Hyderabad	Veterinary College, Bidar

52	Dr. B. V. Shivaprakash	Gulbarga, 8-9-08 to 10-2-08	Vignanika Krithi Anuvada Karyagara	Dept. of Science & Technology, Govt. Of Karnataka	
53	Pradheep Kumar	Veterinary college Bidar	Role perception of teachers in national agricultural research System	National academy of agricultural research management	
54	All faculty members of Veterinary College, Shimoga	Shimoga 30.08.2007	One day workshop on "Bird Flu"	Veterinary College, Shimoga	
55	Dr. V.B.Shettar	Bangalore 15.02.2008 to 16.02.2008	V National Symposium on "Redefining the role of Indigenous Animal Genetic Resources in Rural Development" by KVAFSU & SOCDAB	Veterinary College, Bangalore	
56	Dr. V.B.Shettar	Bangalore 22.02.2008 to 24.02.2008	15 <sup>th</sup> CVA Asian regional Meeting, Conference and Workshop on Concepts in Animal Welfare	NIANP, Bangalore and Karnataka Veterinary Council, Bangalore	
57	All faculty members of Veterinary College, Shimoga	Shimoga 17.03.2008	One day technical seminar for Veterinary Officers on and "Balanced feed for Dairy animals"	KVA, Shivamogga Dept. of AH & VS Veterinary College, Shimoga	
58	Dr. Rudresh, B.H.	Tirupati 20-22 June, 2007.	"Recent trends in policy initiatives and technological interventions for rural prosperity in small holder Livestock Production Systems"	Sri Venkateshwara Veterinary University, Tirupati	Veterinary College, Shimoga
59	Dr. Rudresh, B.H.	Bikaner,Rajasthan 17 <sup>th</sup> Dec, 2007 to 6 <sup>th</sup> Jan, 2008	Application of computers and computational skills in veterinary and Animal Sciences	Department of Animal Genetics and Breeding, Veterinary College Bikaner and ICAR	
60	Dr. Manjunatha, L	Pookot, Kerala, 24 <sup>th</sup> to 26 <sup>th</sup> Oct, 2007	National Workshop on learning and sharing of experiences in teaching and practice of extension among teachers and practitioners of Extension	CALPI, Rajiv Gandhi College of Veterinary & Animal Sciences, Pondichery; College of Veterinary and Animal Sciences, KAU, Pookot	
61	Dr. Jagadish Hiremath	Agriculture College, VC Farm, Mandya 10 <sup>th</sup> to 15 <sup>th</sup> March, 2008	Faculty Development Programme on Educational Methodology and Instructional Technology	NAARM, Hyderabad and UAS, Bangalore	



62	Dr. Ravikumar, C.	Department of Pharmacology and Toxicology, Veterinary College, Bangalore 6 <sup>th</sup> to 7 <sup>th</sup> Oct, 2007	Society of Toxicology, India STOX-2007	Department of Pharmacology and Toxicology, Veterinary College, Bangalore and Advinus Therapeutics Pvt.Ltd, Bangalore	
63	Dr. Ravikumar, C.	Advinus Therapeutics, Private Limited, Bangalore 8 <sup>th</sup> to 12 <sup>th</sup> Oct, 2007	International workshop on Toxicology towards Diplome of American board of Toxicology	Department of Pharmacology and Toxicology, Veterinary College, Bangalore and Advinus Therapeutics Pvt. Ltd, Bangalore	Veterinary College, Shimoga
64	Dr. Ravikumar, C.	College of Agriculture, Madya 10 <sup>th</sup> to 15 <sup>th</sup> March, 2008	Faculty Development Programme on Educational Methodology and Instructional Technology	NAARM, Hyderabad and University of Agricultural Sciences, Bangalore	
65	Sri Devaraja Naika.H	NDRI, Karnal (Haryana) February 27- March 18, 2008 (21 days)	Technological Advances in the Utilization of Dairy By-Products	Centre of Advanced Studies, Dairy Technology Division, NDRI, Karnal Veterinary College, Hassan	Veterinary College, Hassan
66	Dr. H.Manjunatha Dr. R.Prabha Dr. B.Ramachandra	Bangalore 10-11 Aug 2007	Application of seven principles of HACCP food safety system	Dairy science College and Uni. of NEBRASKA, USA	
67	Dr. H.Manjunatha Dr. R.Prabha Dr. B.Ramachandra	Bangalore	National workshop on strategies for processing and Marketing of dairy food products	AFSTI, Bangalore	Dairy Science College, Hebbal, Bangalore
68	Dr. H. Arunkumar	New Delhi 26-27, Feb 2008	Food texture analysis	Scientific and digital systems, New Delhi	
69	Mr. Venkatesh	March 2008	Personality development Skills	NAARM	
70	Dept. of Fisheries Resources and Management	Mrs. Mridula R. Mendon	CIFA Bhubaneswar from 28-11-2007 to 18-12-2007	Recent advances in Freshwater aquaculture nutrition	College of Fisheries, Mangalore
71	Dr. Mohan. P	Madras Veterinary College, Chennai-07 23.12.2007	21 days ICAR Training programme attended - Topic & imaging techniques in disease diagnosis in farm & Pet animals 3 <sup>rd</sup> to 23 <sup>rd</sup> from Dec, 2007	Madras Veterinary College, Chennai - 07.	
72	Dr. Mohan. P	Department of ARGO, Veterinary College, Hebbal, Bangalore 07.03.2008	Participated in V <sup>th</sup> state level "Annual Conference" on practical approaches to infertility in Livestock & Companion animals, Department of ARGO, Hebbal, Bangalore, Karnataka	Department of ARGO, Veterinary College, Hebbal, Bangalore.	LRIC Naga-mangala

73	Dr. Naveen Kumar, S	Vetennary College, Bangalore-560 024 Feb. 15-16, 2008	National Symposium on 'Redefining role of indigenous Animal Genetic Resources in Rural Development'	SOCDAB, Karnal and KVAFSU, Bidar	LRC Naga-mangala
74	Dr. K.V. Mohire	Mumbai 29-3-07 to 18-4-07	CAS Training Programme on "Nutritional strategies & feed management in finfish & shellfish"	Central Institute of Fisheries Education	FRIC, Hebbal & Hesaraghatta Bangalore
75	Dr. S.N. Sathyanarayanappa	BFDA, Karwar, 25.7.07 to 8.8.07	Shrimp Farmers Training Programme	Brackish water Fish Farmers Development Agency (BFDA), Karwar	FRIC Ankola

### 6. Radio Talk / TV Programmes

	Name of the Scientist	Topic & Date	Broadcasting station	Institute
1.	Dr.S.Yathiraj	Career opportunities for BVSc. & AH students"	ETV National relay programme on Yuva Bharat, 2007	Veterinary College, Hebbal, Bangalore
2	Dr. H D Narayanaswamy	Prevention & Control of Poultry Diseases	24/2/08 All India Radio, Bangalore	
3	Dr. S.B.Prasanna	Handi sakanike ondu labhadayaka udhime	19-3-08 Akashvani Bangalore	
4	Dr. Y.B.Rajeshwari	Mola sakanike Ondu Labhadayada Udyama	Akashvani, Bangalore	
5	Dr. Y.B.Rajeshwari	Mola sakanike Ondu Labhadayada Udyama	Udaya, Chandana, ETV.	
6	Dr. H.A.Upendra	Rabies and pet animals	22.4.07 AIR Bangalore	
7	Dr. H.A.Upendra	Diseases transmissible from animals to human beings	4.2.2008 AIR Bangalore	
8	Dr L. Ranganath	Stay dog Menace	Kasturi TV channel	
9	Dr. K. Sathyanarayana	Veterinary Profession oppurtunities	28.04.2007, YuvaBharath Programme	
10	ಡಾ. ಕೆ.ಸಿ.ವೀರಣ್ಣ	ನೇರ ಫೋನ್-ಇನ್ ಕಾರ್ಯಕ್ರಮ ವಿಷಯ ಕುರಿ ಮತ್ತು ಅದು ಸಾಕಾಣಿಕೆ, ಗುಲ್ಬರ್ಗಾ	06-09-2007 ದೂರದರ್ಶನ.	Veterinary College, Bidar
11	ಡಾ. ಶಿವಕುಮಾರ ಕೆ. ರಾಜೇಶ್	ಗರ್ಭಧರಿಸಿದ ದನಗಳ ಪಾಲನೆ	21-09-2007 ಆಕಾಶವಾಣಿ, ಗುಲ್ಬರ್ಗಾ	
12	ಡಾ. ಕೆ.ಸಿ.ವೀರಣ್ಣ ಮತ್ತು ಡಾ. ಶಿವಕುಮಾರ ಕೆ. ಉಡ್ಡೇರ	ನೇರ ಫೋನ್-ಇನ್ ಕಾರ್ಯಕ್ರಮ ವಿಷಯ: ದನಗಳಲ್ಲಿ ಕಂಡುಬರುವ ಸಾಮಾನ್ಯ ರೋಗಗಳು ಹಾಗೂ ಅವುಗಳ ನಿರ್ವಹಣೆ	13-12-2007 ದೂರದರ್ಶನ, ಗುಲ್ಬರ್ಗಾ	
13	Dr. B. V. Shivaprakash	Horn injuries and Horn cancers in animals and management	AIR Gulbarga	



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

Sl. No.	Place & date	No of cases treated / advised	Teachers participated	Institute
1.	Dodda Tumkur, 13.1.08	130 cases	R.Bhaskaran	Veterinary College, Hebbal, Bangalore
<b>Department of Clinical Medicine</b>				
2	16 <sup>th</sup> to 19 <sup>th</sup> Nov. 2007 Krishimela of KVAFSU at Bangalore	26 cases were treated, a large number of farmers were given veterinary consultancy and a police dog show was organized on 18.11.2007	Dr.H.A.Uipendra Dr.C.Ansar Kamran	
3	15 <sup>th</sup> to 16 <sup>th</sup> Dec. 2007 Karnataka Veterinary Association, Hospet	Judge for Dog Show	Dr.S.Yathiraj	
<b>Department of Poultry Science</b>				
4	Haniyur, 14-10-2007	50 farmers	Dr. Jayanaik	
5	Haniyur, January 2008	70 farmers	Dr. B. Umakantha	
<b>Department of Veterinary Preventive Medicine</b>				
6	Haniyur on 30/10/2007	300	M.C. Anil Kumar	
7	Doddatumkur on 13/1/2008	250	M.C. Anil Kumar	
8	Haniyur on 13/2/2008	175	M.C. Anil Kumar	
9	TVCSC, Rural Veterinary Hospital, Yelahanka, Bangalore 64. 23 - 30 <sup>th</sup> April, 2007	In commemoration of World Veterinary Day 2007, a weeklong animal health camp was undertaken at TVCSC. About 270 ruminants were immunized against FMD, 300 animals were give deworming treatment and about 180 pet animals were immunized against rabies.	Dr. R. Nagaraja Dr. B.M. Ravindranatha Dr. M.A. Kshama	
10.	TVCSC, Rural Veterinary Hospital, Yelahanka, Bangalore 64 29 <sup>th</sup> April, 2007	During Animal Welfare Fortnight commemorating Basava Jayanthi 2007, Over 150 pet animals including Dogs and Cats were vaccinated against rabies. Pet owners were given advice on pet health management.	Dr. R. Nagaraja Dr. B.M. Ravindranatha Dr. M.A. Kshama	
11	TVCSC, Rural Veterinary Hospital, Yelahanka, Bangalore 64 24 - 28 Sept, 2007	During a 5 daylong vaccination camp about 430 ruminant including cattle, buffaloes, sheep & goats were administer booster dose of FMD.	Dr. R. Nagaraja Dr. B.M. Ravindranatha Dr. M.A. Kshama	
12	TVCSC, Rural Veterinary Hospital, Yelahanka, Bangalore 64 25-4 <sup>th</sup> March, 08	During a fortnight period, vaccination/health programme about 500 ruminants were administered FMD vaccine and need based deworming treatments were undertaken	Dr. R. Nagaraja Dr. B.M. Ravindranatha Dr. M.A. Kshama	
<b>Department of Veterinary Surgery &amp; Radiology</b>				
13	Byala, Bangalore Urban district 6.5.2007	50	Dr M.S.Vasanth	
14	Devangere-Dog Show 6.1.2008	150	Dr L. Ranganath	

15	Chitradurga-Dog show 10.2.2008	110	Dr. L. Ranganath	
<b>Department of Veterinary and Animal Husbandry Extension</b>				
16	16 <sup>th</sup> to 19 <sup>th</sup> Nov 2007 GKVK	Nearly 2 lakhs	Dr. K. Sathyanarayan	Veterinary College, Hebbal, Bangalore
17	30-11-2007, Haniyuru village	Nearly 300	Dr. K. Sathyanarayan	
18	26 <sup>th</sup> to 29 <sup>th</sup> Feb. And 6 <sup>th</sup> March 2008 (Kannada)	On an average 30 cows.	Dr. K. Sathyanarayan	
19	Kadwad, Dist. Bidar 11-12-2007	300	Dr. K.C. Veeranna and Dr. Shivakumar K. Raddler, Dr. N.A. Patil and Dr. Vivek R. Kasaraliker, Dr. Ravindra Bhoyar Dr. Sandeep Halmandge Dr. S.D. Sonawane, Dr. B. V. Shivaprakash	Veterinary College, Bidar
20	Hokarna (B), Dist. Bidar dated 10.11.2007	200	Dr. Santosh P. Sarangmath, Dr. Ravindra Bhoyar Dr. Sandeep Halmandge, Dr. M.K. Tandle, Dr. Mahesh S. Doodamani, Dr. B. V. Shivaprakash, Dr. D. Dilipkumar	
21	Andurwadi, 18-3-2008	200	Dr. Dilipkumar, Dr. R.B. Dhabale, Dr. D. Dilipkumar	
22	NSS Annual Special Camp, 23.03.2008	115	Dr. Ashok and Dr. Manjunath	
23	Sidlipura Village, Shimoga 25.03.2008	200	Dr. Manjunatha, L, Dr. Ravikumar, Dr. Anand, K.J., Dr. Ganga Naik, Dr. Jagadeesh Hiremath Dr. Nataraj & Dr. Thimappa.	Veterinary College, Shimoga.
<b>Dept. of AH &amp; VS</b>				
24	Iwarakantapura 3.5.2008	600 - Large and small animals	Dept. of AH & VS and KMF Doctors	Dairy Science College, Hebbal, Bangalore
25	Dodda Tumukur January 9 - 19, 2008	75	Dr. R. Krishna, Dr. H. Manjunath Mr. B. Ramachandra	
26	Devalapura, 10.03.2007	150 animals including sheep & Cattle' Infertility cases were Treated with special emphasis.	Dr. Mohan. P & Dr. Naveen Kumar S.	LRIC, Nagamangala
27	Thattekere, 26.10.2007	NSS Camp	Dr. Mohan. P About 100 animals treated	



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

Sl. No.	Place & date	Name of Scientists	Event	Remarks	Institute
1	GKVK, Nov 07	Dr. HDNarayana Swamy	Krishimela	Advice on disease diagnosis	Veterinary College, Hebbal, Bangalore
2	Dept of Pathology, Veterinary College, Bangalore,	Karuna & CVA	Dr M.L.Satyanarayana World Rabies Day Celebration organized By	Good response was received from public & media	
3	GKVK Campus	Dr. Nadeem Fairoze Dr. S. Wilfred Ruban	Krishimela 2007	Exhibition Stall of Department of LPT, to create awareness among the farming community about hygienic processing of poultry.	
4	Krishi Mela ,GKVK,UAS, 16.11.07 to 19.11.07	Dr.U.Krishnamoorthy Dr. R. Bhaskaran Dr. Y.B.Rajeshwari, Dr.S.B.Prasanna	Exhibited sheep, pigs, rabbits	Organized Livestock show Received II Prize For the Best Stall.	
5	GKVK, UAS, Bangalore 16 <sup>th</sup> to 19-11-2007	Dr.M.R.Jayashankar	Krishi Mela	Organised the Cattle Judging programme	
6	Karuna Animal Welfare Organization 8 <sup>th</sup> September 2007	Dr.M.R.Jayashankar & Dr. R.Jayashree	Rabies prevention marathon	Awareness marathon run from Vidhan soudha to Cubbon Park	
7	January 3 <sup>rd</sup> 2008 Doddabailapur	Dr. M.R.Jayashankar	Cattle Judging	Ghati Cattle show	
8	16 <sup>th</sup> to 19 <sup>th</sup> Nov, 2007 Krishimela of KVAFSU at Bangalore	26 cases were treated, a large number of farmers were given veterinary consultancy and a police dog show was organized on 18.11.2007	Dr. H.A.Upendra Dr. C.Ansar Kamran		
9	UAS, GKVAK, Bangalore 16 to 18 Nov., 2007	Dr. B. Umakantha Dr. T. Munegowda Dr. H.N.Narasimaha Murthy Dr. Jayanik Dr. K. Venkata Reddy	Krishimela		
10	Bangalore on 16/11/2007	M. Narayana Bhat	Krishimela		
11	Bangalore on 17/11/2007	M.C. Anil Kumar	Krishimela		
12	Bangalore on 19/11/2007	A.Muralidhar	Krishimela		
13	Bangalore on 20/1/2008	P.T. Ramesh and M.C. Anil Kumar	Dog show		
14	Suttur 3 <sup>rd</sup> and 4 <sup>th</sup> February, 2008	M.C. Anil Kumar	Krishimela		
15	UAS, GKVK, Bangalore 17-19 <sup>th</sup> Nov, 2007	In Thousands	Dr. M.A. Kshama		

16	Dept of Vety, Microbiology 09.01.08 & 30.01.08	Dr. D. Rathnamma, Dr B.M. Veeregowda & Dr. Sharada. R	ASCAD Training Programme for Veterinarians	Diagnostic techniques in Microbiology	Veterinary College, Hebbal, Bangalore
17	Dept of Vety, Microbiology 18.03.08 and 27.03.2008	Dr. D. Rathnamma & Dr. S. Isloor	Training on Diagnosis of Rabies under Continuing Veterinary Education for Veterinarians	Counter Immuno electrophoresis & ELISA techniques in Diagnosis of Rabies in Animals	
18	International Biotechnology Exhibition, Bangalore	Dr. Shrikrishna Isloor	Bangalore Bio - 2007	Installation of KVAFSU stall	
19	GKVK, UAS, Bangalore 16 to 19.11.2007	Dr. K.Chandrapal Singh Dr. R.G. Glori Doss Dr. T.M. Prabhu	Krishi Mela	Exhibited departmental stall 2) Resource persons in consultancy cell 3) Organised Cattle judging Programme	
20	Karuna Animal Welfare Organization, 8.9.2007	Dr. K. Chandrapal Singh & Dr. K. Sathyanarayana	Rabies Prevention Programme	Rabies Awareness Marathon Run from Vidhanasoudha to cubbon Park	
21	Veterinary College, Bidar, 03-06-2007	Dr. K.C. Veeranna	Demonstration on complete feed Preparation		
22	Veterinary College, Bidar, 24-07-2007	Dr. K.C. Veeranna	Demonstration on complete feed Preparation		
23	Veterinary College, Bidar, 08-12-2007	Dr. K.C. Veeranna	Demonstration on complete feed Preparation		
24	Veterinary College, Bidar, 20-02-2008	Dr. K.C. Veeranna	Demonstration on complete feed Preparation		
25	Sidlipura Village, Shimoga 17 <sup>th</sup> to 26 <sup>th</sup> March	Dr. Nagabhushan, V	NSS Special camp	Participate in Annual Special Camp	Veterinary College, Shimoga.
26	Sidlipura Village, Shimoga 17 <sup>th</sup> to 26 <sup>th</sup> March	Mr. Eshwara, K.A	NSS Special camp	Assist NSS Coordinator in Special camp	
27	Sidlipura Village, Shimoga, 25.03.2008	Dr. Manjunatha, L., Dr. Ravikumar, Dr. Anand, K.J., Dr. Ganga Naik, Dr. Nataraj & Dr. Thimappa Dept. of AH & VS	Demo on Azolla cultivation (50)	-	
28	JSS Suthur 4 - 8 <sup>th</sup> Feb. 2008	Dr. E. Narayanappa	Krishi Mela	-	Dairy Science College, Hebbal, Bangalore
29	UAS, GKVK 16 -19 Nov 2007	Staff of all the Departments of the College	Krishimela	-	
30	Agricultural Research station, Kankanady	Dr. S. Benakappa Dr. C.V.Raju	Shri Iqbal Ahmed	Fisheries Exhibition was organized in connection	



	25-11-2007	Sri Iqbal Ahmed Prof.B.Hanumanthappa Sri Sashidhar H. Badami Dr. A.T.Ramachandra Naik.		with the inauguration of KVK administrative office and other buildings	College of Fisheries, Mangalore
31	15.07.2008	Dr. Mohan. P Dr. Naveen Kumar S.	Exhibition to know various fodder varieties available with us	10 farmers benefited LRIC, Nagamangala	LRIC, Nagaman gala
32	A.G.Estate,Nedaghatta, Maddur (T), Mandya, 7/5/2008	Dr.G.Y.Keshavappa	Field day	Amur carps were harvested and marketed FRIC, Hebbal, Bangalore	FRIC, Hebbal & Hesara Ghatta, Bangalore
33	GKVK, UAS, Bangalore, from 1619 November	Dr.G.Y.Keshavappa	Krishimela	An exhibition stall was put up displaying all the activities of Inland Fisheries and also served as resource person at consultancy cell.	
34	A.G. Estate,Nideghatta, Mandya May, 7 <sup>th</sup> 2008	Dr. Y. Basavaraju, Dr. G.Y. Keshavappa, Dr. K.V. Mohire,	Field day on "Demonstration of Amur Common carp culture in ponds"	Vice-Chancellor, D.R., D.E. of KVAFSU, Director of Fisheries and other Officials from Department of Fisheries, fish farmers participated in the programme	
35	GKVK, Bangalore Nov. 16 <sup>th</sup> 19 <sup>th</sup> 2007	Dr. K.V. Mohire,	Krishimela,	Arranged Fisheries exhibition stall and attended consultancy Services	

### 9. Animal healthcare services to farmers

Sl No	Department	Total No. of cases treated					Total	Institute
		Cattle & Buffaloes	Sheep & Goats	Dog	Fish & Prawn	Poultry /Farms		
1.	Pathology	-	-	-	-	188	188	Veterinary College, Hebbal, Bangalore
2.	LPM	43	31	-	-	61	135	
3.	CVM	1115	-	16985	-	730	18830	
4.	Poultry Science	-	-	-	-	21	21	
5	Veterinary Clinical service Complex	4340	1392	3682	00	00	9414	
6	Veterinary Surgery & Radiology	140	80	1600	---	Cats 60	1880	
7	ARGO	Cattle	2200					
		Buffalo	521				3794	
		Sheep						
		Goat	2873					
8	ARGO	774	100	8	-	-	88	Veterinary College, Bidar
9	Surgery & Radiology	879	260	208	31		1478	
10	VHDDIC, Gandhi Gunj, Bidar	687	331	565		40	1623	
11	Total number of animals treated at Teaching Veterinary Hospital Service Complex, Veterinary College, Bidar and A.P.M.C. Hospital, Bidar from April 2007 to March 2008 - 2868							
12	Referred cases by the field veterinarians to vety college, Hassan were attended at the farmers premises in and around Hassan Veterinary College, Hassan							Vety.College, Hassan

### 10. Diagnostic Services provided

Sl No	Department	Diagnostic service	Total No.	Institute
1	Pathology	Canine Post mortem	180	Veterinary College, Hebbal, Bangalore
2		Bovine Post Mortem	29	
3		Equine Post mortem	5	
4		Feline Post Mortem	2	
5		Sheep & Goats	16	
6		Pigs & Lab animals	79	
7		Poultry	1376	
8		Others	2	
9		Histopathology	2100	
10		Exfoliative Cytology	34	
11		Rabies	71	
12	Parasitology	Worms from spotted deer brought for identification from Binkadakatte zoo	01	
13		Faecal samples Animal Health Camp, Hanniyur, Bangalore.	15	
14		Worm from subconjunctival space of a human patient from Bhadravati brought for identification from Narayana Nethralaya, Rajajinagar, Bangalore	01	
15		Blood samples from Yelahanka V.H, Dept. of LPM, Mobile clinic Hiriuru, Hiriuru V.H, Ganipura, Koramangala, NCBS College, Vety service dept, Hessarghatta, Jakkur, Tumkur, Koramangala	25	
16		Worm from the eye of a 11 year old boy was Brought for identification from Narayana Netralaya, RajajiNagar, Bangalore	01	
17		Faecal samples KAMPCO Slaughter house	30	
18		Faecal samples from sheep from KVAFSU Sheep farm, Hebbal Kunkuppe sheep farm, Bellary	100	
19		faecal samples from Sheep breeding farm Dhangur, Sheep Breeding farm, Sutthatti	350	
20		Tapeworm segments from bears from Bannerghatta Bear Rescue Centre, Bangalore -560083	01	
21	LPM	Pregnancy diagnosis	131	
22	LPM	Laboratory Animals Broiler & Rabbit	250	
23	LPM, PDADMAS	Assisted Brucella blood collection and screening for Private pig farm, Kengeri, Bangalore	20	
24	Department of Clinical Veterinary Medicine	ECG recording	415	
		Hematology	780	
		Urine Analysis	86	
		Biochemical Analysis	735	
25	Dept. of Vety Epid & Prev. Medicine	Antibiotic Sensitivity test	150	
26	Veterinary Microbiology	1. Antibiotic Sensitivity test (ABST) for clinical Samples / bacterial cultures.	20	
		2. Isolation and Identification of bacterial/fungal pathogens from the clinical samples.	15	
		3. Screening of blood /tissue impression smears for bacterial/fungal pathogens.	25	



		4. Screening of blood/serum/milk samples for Animal Brucellosis.	35	Veterinary College, Hebbal, Bangalore
		5. Screening of human blood /serum samples for Brucellosis and Counseling Veterinarians/Livestock Inspectors/Animal owners/Animal attendants about the disease & control	30	
		6. Screening of cattle for Bovine Tuberculosis by Tuberculin test.	10	
		7. Screening of blood / serum samples for bovine, ovine and Avian Mycoplasma infections		
		FMD Investigation at Haniyur village- samples collected for processing		
27	Veterinary Surgery & Radiology	Radiography Ultrasound Exfoliate cytology Vaginal endoscopy	1180 1852 2560 500	
28	Dept. of Clinical Veterinary Medicine and Dept. of Preventive Medicine	Faecal Examination, Skin Scrapings, Blood examination, Nasal discharge, Milk samples, Rumen fluid examination Urine sample	430	Veterinary College, Bidar
29	ARGO	Vaginal cytology	5	
30	ARGO	Pregnancy diagnosis	139	
31	Surgery & Radiology	X-ray diagnosis	235	
32	Dr. M.S.Vasanth visited Bannerghatta Biological park, Bangalore on several occasions to conduct surgery on captive wild animals			Veterinary College, Hassan
33	Dr. M.S.Vasanth visited Pilikula Biological Park, Mangalore on three occasions for microchip implantation in king cobra, lions and tigers			

Sl No	Date of investigation	Name of the scientist & Place of Investigation	Disease suspected and Diagnosed	Institute
34	07.04.07	Dr Harish, BR & Shivaraj, Hyderabad	Brain collection for BSE	Institute of Animal Health And Veterinary Biological, Hebbal, Bangalore
35	07.04.07	Dr.Ravindra Hegde & Dr Madusudan, Siddlaghatta Kolar	FMD & HS	
36	13.04.07	Dr Harish, BR & Dr Alamelu, Gubbi, Tipalur, Tumkur	Chalymidia / Sheep pox / HS	
37	17.04.07	Dr Asha Mayanna & Dr Madusudan, Somapura, Arakalgudi, Hassan	Black quarter	
38	17.04.07	Dr Ravindra Hegde, Malur, Kolar	FMD / Anthrax	
39	11.05.07	Dr Madusudan & Dr shivaraj Aralikatte, Bangalore east	HS	
40	23.05.07	Dr Giridhar, Dr Harish, Dr Shivashankar, Hanur, Ramapura, Kudalli, Hunsur and Kollegala wild life division, Chamarajanagar	Elephant disease investigation	
41	04.06.07	Dr Harish, Dr Prakash, Kengeri, Bangalore	Salmonellosis / HS / E.coli in pigs	
42	21.06.07	Dr Venkatesha & Dr Harish, Komanalu, Shimoga	Black quarter	
43	11.07.07	Dr Giridhar & Dr Harish, Komanalu, Shimoga	Black quarter	
44	12.07.07	Dr.Venkatesha and Dr.Raveendra Hegde Zoo Trivandrum, Kerala	FMD in Zoo	
45	12.07.07	Dr Chandra naik, BNP, Bangalore	Lion diseases	

SI No	Date of investigation	Name of the scientist & Place of Investigation	Disease suspected And Diagnosed	Institute
46	18.07.07	Dr Harish, BNP, Bangalore	PM of Indian Guar	Institute of Animal Health And Veterinary Biological, Hebbal, Bangalore
47	30.07.07	Dr Harish, Vadagur, Kolar	Tetanus	
48	09.08.07	Dr. Giridhar, Dr. Chandra Naik, Sheep farm, Nagamangala	PPR	
49	20.08.07	Dr. Chandra Naik, Kortagare, Madhugiri	Tetanus	
50	10.08.07	Dr. Giridhar, Dr. Harish, Soraba, Shivamoga District	Nitrate poisoning	
51	14.08.07	Dr Venkatesha & Dr. Giridhar, Bandipur National Park Mysore	/BQ/Plant poisoning Elephant disease investigation and TB testing	
52	14.08.07	Dr. Harish, Bavapura, Hoskote Taluk	Anthrax	
53	25.08.07	Dr Venkatesha & Dr. Giridhar, Mangalore	Swine fever	
54	29.08.07	Dr. Ravindra Hegde, Dr. Harish, DB Pura	FMD	
55	10.10.07	Dr. Ravindra Hegde & Dr Chandra Naik, Doddahullur	FMD	
56	12.10.07	Dr Harish, Kenegri, B'lore rural	PPR	
57	18.10.07	Dr Venkatesha & Dr Chandra Naik, Mehaboobnagar	AP Gianders	
58	18.10.07	Dr Shivaraj, Vadagur, Kolar dist	FMD/HS	
59	22.10.07	Dr Shivaraj, Kallambella, Tumkur	Anthrax	
60	22.10.07	Dr Shivaraj and Dr Pratuish, Tavererekere, Tumkur	PPR/Anthrax	
61	25.10.07	Dr Venkatesha & Dr. Giridhar & Dr. Ravindra Hegde	BNP, FMD in Mithun	
62	03.11.07	Dr.ChandranaiK, Maddur, Mandya district	Classical swine fever	
63	19.11.07	Dr Chandra Naik, Bannerghatta	Parasitic enteritis.	
64	04.12.07	Dr Chandra Naik, CB Pura	FMD	
65	28.12.07	Dr Harish & Dr Shivashankar, Mysore zoo, Mysore	Bacterial infection baboons	
66	05.01.08	Dr.ChandranaiK, Jigani, Anekal	swine Salmonellosis	
67	18.01.08	Dr.ChandranaiK. Shivajinagar, Bangalore	FMD	
68	16.02.08	Dr.ChandranaiK and Dr.Ravindra Hegde, Makur, Kolar	FMD	
69	19.03.08	Dr.ChandranaiK, KVAFSU, Sheep farm, Nagamangala	Blue tongue	
70	Suddekere, K. Malkenahalli, Dr. Mohan. P	Milk samples tested for detecting sub clinical mastitis to demonstrate to Dairy farmers to stress the need for preventive check up of milk.	24 farmers got benefited	LRIC, Naga-mangala

#### 11. Supply of chicks/animals/fish/fodder/root slips/other farm produce to farmers :

SI No	Department Farm	Supplied Item/Quantity	Remarks	Institute
1.	Piggery Unit, LPM	Pigs=12, Piglet=227, 13 Male Calves, 3 Buffaloes male, 7 Male sheep lambs, 89,000 liters milk		Veterinary College, Hebbal, Bangalore
2	Small Animal House, Livestock Production and Management	Laboratory Animals-640, Laboratory Rodents-102, Guinea Pigs, Rats, Mice and Broiler Rabbit		
3	Department of Poultry Science	Day old Giriraja Chicks, 102790		
4	Department of Poultry Science	Day old Giriraja parent Chicks 6518		
5	Department of Poultry Science	Hatching eggs 89117		



6	AICRP on Poultry Breeding for Meat	Day old Raja-II chicks 41453		Veterinary College, Hebbal, Bangalore
7	AICRP on Poultry Breeding for Meat	Hatching eggs 103746		
8	Department of Veterinary and Animal Husbandry Extension	Rabbit distribution Programme- at Sondaekuppa, Nijaganpalli, Manchinabele, Palanhalli, Gangasandra		
9	Department of Veterinary & Animal Husbandry Extension	Fish seedlings released at Hariyur Village		
10	Department of Veterinary and Animal Husbandry Extension	Swarnadara birds to Farmers-two groups		
11	Obtained from FRS, Hebbal	Fingerlings - 400 Nos	In view of women in Agricultural Day Celebration at Haleyrur	Dairy Science College, Bangalore
12	Livestock Research & Information Centre (Sheep), Nagamangala	10 farmers around our farm received root slips	Napier grass root slips supplied.	LRIC, Nage Mangala
13	Mohanrao Vlu-Janti	Hybrid Napier Root slips	9000	LRIC, Deoni Karanja, Bidar
14	Vajjinath Mahagaon	Hybrid Napier Root slips	3000	
15	Barath bai Bhalki	Hybrid Napier Root slips	5000	
16	MD KMF Gulbarga	Hybrid Napier Root slips	8000	
17	Chandrkanth MaliPatil Dakulgi	Hybrid Napier Root slips	8000	
18	Bharath bai Yadav Bhalki	Hybrid Napier Root slips	1000	
19	Maharudrappa Chincholi	Hybrid Napier Root slips	4000	
20	Arjun Kumar Yadgir	Hybrid Napier Root slips	1000	
21	Nand Kumar Tugaon	Hybrid Napier Root slips	500	
22	Nand Kumar Tugaon	Hybrid Napier Root slips	660	
23	Nand Kumar Tugaon	Hybrid Napier Root slips	500	
24	Bharth bai		2000	
25	Chandrkanth Chincholi	Hybrid Napier Root slips	300	
26	FRIC, Hebbal Under revolving Fund	Cultivable fish seed - 6.25 lakh Ornamental fish seed - 3150 no. Bulk fish - 79.5 kg Live fish (large) - 51.0 kg	Total of Rs 3.945 lakh earned	FRIC, Hebbal, Bangalore
27	Fisheries Research & information Center (I), Hesaraghatta, Bangalore - 89	1. Fish seed (Cultivable) Catia, Rohu, Common carp	2,67,759 No of Farmers 51	FRIC, Hebbal & Hesaraghatta, Bangalore
28		2. Ornamental fish - Gold fish, mollies, platies, Red Swordtail, Green Swordtail, Gouramies & Guppies etc.	26,146 No of Farmers 990	

## 12. Consultancy / Advisory Services

Sl No	Place & Date	Name of the Scientist	Problems tackled	No. of animals	Institute
1	6/7/07, State Poultry Farm, Hessaraghatta	Dr. H.D.Narayanaswamy	Investigation of chick mortality		- Veterinary College, Hebbal, Bangalore
2	21/7/07, State Poultry Farm, Hessaraghatta	Dr. H.D.Narayanaswamy	Investigation of chick mortality	-	
3	9/10/07, State Poultry Farm, Hessaraghatta	Dr.H.D.Narayanaswamy	Investigation of chick mortality	-	
4	23/11/07, Dept of Poultry Science	Dr.M.L.Satyanarayana	Mortality in Growers	-	
5	20/2/08, Mysore Zoo	Dr.M.L.Satyanarayana	Screening for diseases of zoonotic importance	-	
6	29/2/08, Dept of Poultry Science	Dr.M.L.Satyanarayana	Poor hatchability	-	
7	7/3/08, Dept of Poultry Science	Dr.M.L. Satyanarayana	Poor hatchability	-	
8	22/3/08, Dept of Poultry Science 31-03-08	Dr.M.L. Satyanarayana	Poor hatchability	-	
9	Gowmbidhunoor, (Kolar District)	Dr.Y.B.Rajeshwari & Dr.K.Satyanarayan	Management and Disease aspect	80	
10	28-05-08 Kurnekarahalli (Tumkur District)	Dr.Y.B.Rajeshwari & Dr.K.Satyanarayan	-do-	60	
11	Chikkanayakanahalli (Tumkur District)	Dr.Y.B.Rajeshwari & Dr.K.Satyanarayan	-do-	50	
12	Bannerghatta Biological Park 20-8-07	M.Narayana Bhat	Wildlife disease investigation	5	
13	Haniyur village 5-3-2008	A.Muralidhar	Diseases investigation in cattle	20	
14	SLBTC, Hessaraghatta 18-3-2008	A.Muralidhar	Investigation in cattle diseases	20	
15	Dept of Vety. Microbiology Throughout the year	Dr. Shrikrishna Isloor	Testing for Brucellosis Suitable remedial measures were suggested	For Veterinarians & Paraveterinarians	
16	LRIC (Sheep), Naganangala 02.08.07	Dr. B. M. Veeregowda	Disease investigation -Suitable measures were suggested	- Do-	
17	Sri Chamarajendra Zoological Garden, Mysore 20.02.08	Dr. Shrikrishna Isloor	Assisted in taking necessary preventive measure & guidelines for betterment of zoo, Suggesting protocol for shifting deers to Bandipur National Park, guidelines for preparedness to deal with Avian Influenza in the zoo.		



18	Dharmasathala 14.9.2007	Dr. M. S. Vasanth	Lameness and skin problems in Elephants	2	Veterinary College, Hebbal, Bangalore
19	Sakrebail Shimoga 14.9.2007	Dr. M. S. Vasanth	Wounds in Elephants	3	
20	Nandini Sperm Station, Kakolu	Dr. Veerabhadraiah	Lameness in a Bull	2	
21	CCBF, Hessarghatta 3.3.2008	Dr. George Chandu	Injury to a Cow	1	
22	26 villages of various parts of Karnataka	Dr. N.B. Shridhar	Various disorders or obscure diseases reported by the field veterinarians were investigated in various parts of Karnataka	162	
23	Sheep Breeding Farm Kunkuppae	Dr. N.B. Shridhar	Disease Investigation - Suitable measures were Suggested	45 sheep	
Department of Clinical Veterinary Medicine staff members are involved in providing consultancy advisory services to the farmers during the clinical Hours of the department on all the days.					
24	Dept. of Vety. & A.H. Extension, April- 2007 to March 2008	Dr.K.C. Veeranna and Dr. Shivakumar K.Radder	Project reports, Knowledge about improved farming practices were provided	For 05 farmers as per their requirement	Veterinary College, Bidar
25	Veterinary Officer, VD,Baswakalyan, Consultancy by Phone 25/10/2007	N.Prakash	Management of malathion toxicity in Buffaloe	2	
26	Veterinary Officer, VD,Bellary Consultancy by Phone 06/01/2008	N.Prakash	Management of Zincphosphide Positioning in calves	6	
27	Veterinary Officer, VD,Sedam,Gulbarga Consultancy by Phone 16/ 3/ 2008	N.Prakash	Information regarding collection of materials for suspected case of Zinc phosphide Poisoning	2	
28	Dept. of Clinical Medicine	Dr. N.A. Patil, Dr. Vivek Kasaralikar and Dr. S.P. Sarangmath	Emergency treatment at farmers door step	Three visits were made during the year 2007-0	
29	Dept. of Vety. Epidemiology and Preventive Medicine	Dr. K.Ganesh Udupa and Dr. Sandeep Halmandge	Emergency treatment at farmers door step	Three visits were made during the year 2007-08	
30	Mandakanalli, May, 2007	Dr. R. G. Bijurkar	Breeding problem of goats	17	
31	Kumabarawada, July, 2007	Dr. Sonawane	Dystokia in animals	4	
32	Karnthana, June 2007	Dr. M.K. Tandle	Breeding problems of Sheep	43	
33	Bakchoudi, August, 2007	Dr. R.B. Dhabale	Repeat Breeding	8	

34	Kaplapur, September, 2007	Dr. Mahesh S. Doddamani	Dystokia	7	Veterinary College, Bidar	
35	Deoni Farm, 12-09-08	Dr. B. V. Shivaprakash	Chronic Cervical Prolapse in a cow	1		
36	Mysore Pinjrapole, 11-07-07	Dr. B. V. Shivaprakash	Bed Sores capped elbow operation, Hernia operation, Eye cancer	6		
37	Hubli, 13-07-07	Dr. B. V. Shivaprakash	Plastic impaction	4		
38	Deoni farm	Dr. D. Dilipkumar	Fracture	1		
39	Chincholi	Dr. D. Dilipkumar	Horn fracture	1		
40	VHDDIC, Gandhi Gunj, Bidar, 1-4-07 to 31-3-08	Dr. R.B. Dhabale and Dr. Ravi Raichurg	Addressed query from farmers on livestock management and prevention of Diseases	27		
41	Bangalore	Dr. R.Krishna, HOD, Dairy Microbiology	Microbiological analysis of domestic water Sample	60 samples	Dairy Science College, Hebbal, Bangalore	
42	Bangalore	Dr.R.Krishna HOD, Dairy Microbiology	Supply of Lactic acid bacterial cultures as per requirement on approval			
43	SRDDL Scientists Participated and presented papers on recent disease problems in livestock, wild animals & Poultry at various symposium of Microbiology, immunology, Pathology, Medicine etc.					IAHS-VB, Hebbal, Bangalore
44	Joint Director attended the expert committee meeting to finalize the BSE dossier to be Submitted to OIE on 2 <sup>nd</sup> May 2007 held at AQCS, Kapashera, and New Delhi					
45	Joint Director attended the meeting of expert group on glanders on 25 <sup>th</sup> June 2007 held at KrishiBhavan, New Delhi					
46	Dr.Venkatesh and Dr.Ravindra Hegde along with nodal officer (Kerala) Dr.Viswanathan and his team investigated outbreak of FMD at Trivandrum Zoo and suggested control measures on 12.07.07					
47	Director SRDDL attended the expert committee meeting to discuss and recommend a suitable location for establishment of BSL IV laboratory, held at SRDDL Bangalore on 7 <sup>th</sup> Aug.07					
48	Joint Director attended the RADDL officer's meeting at RADDL, Mangalore on 5.9.07 and delivered a lecture on "classical swine fever" to veterinarians of two districts.					
49	Dr.Venkatesh and Dr.Chandranaiik along with nodal officer (AP) Dr.Sudarshan Rao and his team investigated outbreak of Glanders at Maheboobnagar and suggested control measures on 18.10.07.					
50	Dr.Venkatesh, Dr.Ravindra Hegde and Dr.Giridhar investigated outbreak of FMD in Mithun at BBP and suggested control measures on 25.10.07.					
51	Dr.Venkatesh and Dr.Ravindra Hegde investigated outbreak of FMD in Breeding animals at CCBF & CFSP&TI and suggested control measures during Feb-08.					
52	Visited the Following Villages 1. Shamboganahalli 2. Andenahalli 3. Karikyathanahalli	Dr. Mohan. P & Internees	Suggested good Animal Husbandry practices, importance of flushing, importance of regular preventive vaccination, deworming & lamb Management.	50 Farmers participated	LRIC, Naga mangala	
53	July 2008 1. Kanthapura	Dr. Mohan. P & Internees	Suggested good Animal Husbandry	Around 50 Farmers		



	2. Hosoru Koppalu 3. Gajje hosahalli 4. Kuppali		practices, importance of flushing, importance of regular preventive vaccination, deworming & lamb management.	participated	LRIC, Naga mangala	
54	Praveen Dairy Benak halli, 22.04.07	Dr. Satish C Biradar	Dairy Management	30	LRIC, Naga Mangala	
55	Shakti Dairy Naubad, 20.05.07	Dr. Satish C Biradar	Dairy Management	40		
56	Patil Dairy Chidri 15.06.07	Dr. Satish C Biradar	Dairy Management	50		
57	Biradar Dairy Air Force, 17.07.07	Dr. Satish C Biradar	Dairy Management	30		
58	Shakti Dairy Nambad 05.08.07	Dr. Satish C Biradar	Dairy Management	40		
59	Patil Dairy Chidri 14.09.07	Dr. Satish C Biradar	Dairy Management	50		
60	Biradar Dairy Air Force 29.10.07	Dr. Satish C Biradar	Dairy Management	30		
61	Praveen Dairy Benak halli 11.11.07	Dr. Satish C Biradar	Dairy Management	30		
62	Patil Dairy Chidri 13.12.07	Dr. Satish C Biradar	Dairy Management	50		
63	Praveen Dairy Benak halli 1.01.08	Dr. Satish C Biradar	Dairy Management	30		
64	Patil Dairy Chidri 9.02.08	Dr. Satish C Biradar	Dairy Management	50		
65	Shakti Dairy Nambad 17.03.08	Dr. Satish C Biradar	Dairy Management	40		
66	FRIC(I), Hesaraghatta	Dr. K.V. Mohire	Dairy Management	Fish pond Construction, production and culture of cultivable and ornamental fishes aquarium Maintenance.		FRIC, Hebbal & Hesara Ghatta, Bangalore

### 13. Activities on Village/ Farm Adoption

On 26.4.07 Dr. Y.B.Rajeshwari, Dr.U.Krishnamoorthy and Dr.R.Bhaskaran has participated in the free distribution of rabbits and during the programme on rabbit rearing to farm women under DBT project at University adopted Haniyur village.

All the staff members of the Clinical Veterinary Medicine Department are involved in animal health extension activities such as diagnosis and treatment of diseases in livestock and poultry at Haniyur village, adopted village of Veterinary college, Bangalore.

#### Fisheries Research and Information Centre, Hebbal

KVAFSU adopted Haniyur, village near Hesaraghatta. Three farmers have been selected for fish culture, integrated fish farming demonstration. Amur fish demonstration work has been also initiated under project work.

#### Fisheries Research and Information Center (Inland), KVAFSU, Hebbal & Hesaraghatta, Bangalore

4 farmers in Haniyuru, KVAFSU adopted village near Hesaraghatta has been selected for fish culture and Integrated fish farming demonstration. Amur fish rearing demonstration work has been initiated under project work.

#### 14. Extension Publications (Books/Training Manuals/Popular articles /Leaflets)

Sl No	Name of the Scientist	Title	Date of Publication	Name of Publisher	Institute
1	Dept of Pathology & Dept of Medicine	Training manual for Paraveterinarians under ASCAD Training	2008	KVAFSU,	
2	IVC & Dr. M.L Satyanarayana	Rabies Diagnosis Manual - VCI	2008	VCI	
3	Dr.Placid E.D'Souza Course Coordinator	Diagnosis and Control of Animal diseases	7.1.2008 & 28.1.2008	Two manuals were prepared. The Dean was the Course Director along with 2 Co course Directors and 3 Course Coordinators	
4	Dr. M. Narayana Swamy	JAAANUVAARU	14.3.2008	Kannada Pustaka Pradhikara, Government of Karnataka	
5	Placid E. D'Souza,	Common zoonotic parasitic infections and their control.	2008	KVA Technical Symposium 2008, Souvenir 15-19	
6	Mamatha G.S. and Placid E. D'Souza	Economic impact of Helminthosis in Livestock Production	2008	KVA Technical Symposium 2008, Souvenir 33- 34	
7	Dr.Nadeem Fairoze & Dr.S.Wilfred Ruben	Clean Milk & Meat Production and Value addition	3 <sup>rd</sup> Dec, 2007	Dept. of LPT	
8	Dr. Y.B.Rajeshwari	Mola sakanike Leaflet to distribute	-	IALV(KC) & Veterinary College, Bangalore	
9	Dr. Y.B.Rajeshwari	To farmers as part of DBT Project.	-	Veterinary College, Bangalore	- Veterinary College, Hebbal, Bangalore
10.	Dr. Y.B.Rajeshwari	History and Utility of Dogs	-	Veterinary College, Bangalore	
11.	Dr. Y.B.Rajeshwari	Drug interaction in Vet. Practice a review IX-National Technical Seminar on Role of Veterinarians in Augmenting Rural Economic through Animal Husbandry	24-25 Jan,08	IALV(KC) & Veterinary College, Bangalore.	
12	R.Jayashree	Transmission of Intestinal worms from pets to people	July, 2007	Pet India	
13	R.Jayashree	Impact of Crossbreeding of Sheep in India	24 <sup>th</sup> January, 2008	IALV compendium	
14	R.Jayashree	Shimoga: The Pride of Malnad	„	„	
Department of Clinical Veterinary Medicine has prepared leaflets regarding common diseases of cattle, buffaloes, sheep, goat, poultry and dogs. Same will be published in due course of time and made available to animal owners/farmers.					
15	B.C. Channakeshava, Jaya Naik and C. Narayanaswamy	Mevina belegala utpadane	2008	UAS, GKVK, Bangalore	
16	P. Margoob Hussain, Basavarajiah, DM & Jaya Naik	Hainugarike	2008	UAS, GKVK, Bangalore	
17	H.N.N. Murty, Basavarajiah, D.M. Jaya Naik and Ramesh. K.R	Koli sakanike ondu udyama	2008	UAS, GKVK, Bangalore.	



18	H.N.N. Murty, Basavarajiah, D. M. Jaya Naik & Ramesh. K.R	Bili broiler badalu bannada broiler koligalu	2008	LIAS, GKVK, Bangalore.	
19	B. Umakantha.,	Back Yard Poultry farming Integrated Farming for Agri. Enterpreuners	2007	Training Manual, 2007-08 Pages: 8-12	
20	Jayanaiik	Poultry feeding for Meat	2007	Training Manual, 2007-08, Pages: 17-23	
21	H. N. N. Murthy.,	Germplasm developed for Rural Poultry farming in India	2007	Training Manual, 2007-08, Pages: 24-26	
22	H. N. N. Murthy, K. R. Ramesh and M.C. Shivakumar	Ginraja Gramina Janangondlu Varadana Annadatha,	2008	Feb, 2008. pages 39-40	
23	M. Narayana Bhat and M.C. Anil Kumar	Diagnosis of Mastitis	9/7/2007 to 14/7/2007	Training Manual "Ruminant Medicine"	
24	M. Narayana Bhat and M.C. Anil Kumar	Diagnosis of Bactenal Diseases	9/7/2007 to 14/7/2007	Training Manual "Ruminant Medicine"	
25	M.C. Anil Kumar, B.R. Suchitra and M. Narayana Bhat	Bovine Ascariasis	Page No. 3. Sept. 2007 issue	Pashudhan	
26	M.C. Anil Kumar and B.R. Suchitra	Important post mortem lesions of large animal and poultry diseases	2007	Compendium For Practicing Vets by K V A, Dakshina Kannada District Branch	
27	M.C. Anil Kumar and B.R. Suchitra	Materials to be submitted to the laboratory for diagnosis	2007	Compendium For Practicing Vets by K V A, Dakshina Kannada Dist. Branch	
28	B.R. Suchitra, M.C. Anil Kumar and G.C. Nirmala	Azolla- A promising animal feed"	December 2007 issue page 59-60	Pashudhan	
29	B.R. Suchitra and M.C. Anil Kumar	Januvarugallali bacteriadinda haraduva sankramika rogakalu mattu avugala hatoti kramagalu	November, 2007 issue.	Annadata	
30	Suchitra B.R, K.C. Shashidhar and M.C. Anil Kumar	Hainurasugalalli bedeya lakshanagalu"	April, 2008, issue Page 38-39	Annadata	
31	M.C. Anil Kumar	Januvarugala rogakalu hagu haitoti kramagalu"	July, 2008, issue Page	Annadata	
32	Dr. P.T. Ramesh	PPR	2007	ASCAD Manual	
33	Dr. P.T. Ramesh	Calf Diarrhea	2007	ASCAD Manual	
34	M.C. Anil Kumar	Rogagrasta Pranigaku shushrushe	2007	ASCAD Manual	
35	M.Narayana Bhat	Diseases of wild animals and their control in Kamataka	2007	ASCAD Manual	
36	M.Narayana Bhat	Method of transmission of communicable diseases	2007	ASCAD Manual	
37	A. Muralidhar	Control and Prevention of HS & BQ	2007	ASCAD Manual	
38	Dr. D. Rathnamma & Dr. Shrikrishna Isloor	ASCAD Training Manual	2008	Veterinary College, Bangalore	Veterinary College, Hebbal, Bangalore

39	Dr N B Shridhar	Januvargalalli Lantana Vishabaadhe	14-2-2008	Vijaya Karnatyaka daily	Veterinary College, Hebbal, Bangalore
40	Dr N B Shridhar	Vmdha oushadhiya sasyagalu	20-6-2007	Prajavani Daily	
41	Dr N B Shridhar	Huccunayy rogada bagge vishesha maahili	18-10 2007	Sudha Weekly	
42	Dr N B Shridhar	Namma Hemmeya Emmegalu	15-6-2007	Taranga Weekly	
43	Dr. K.Sathyarayanan	Poster - 18, Folders - 4			
44	Satyanarayan, K.& Jagadeeswary, V	Sheep farming An economical enterprise.	2007	Krishi Vignan	
45	Satyanarayan, K.	Pig Production	2007	Training manual on Integrated Farming for Ag Entrepreneurs of SIRD Assam	
46	Satyanarayan, K	Role of Extension - educating the public on livestock disease	2008	Training Manual of ASCAD training to para-veterinarians	
47	Satyanarayan, K.& Jagadeeswary, V	Importance of Extension Education in Livestock Production & Disease Prevention	2008	Training Manual of ASCA training to Veterinarians	
48	Jagadeeswary, V.	Bangalore IT hub	2008	Compendium of IX Nation Technical Seminar on Role of women Veterinarians in Augmenting Rural economy through Animal husbandry.	
49	ಡಾ. ಕೆ.ಸಿ.ವೀರಣ್ಣ ಮತ್ತು ಡಾ. ಶಿವಕುಮಾರ ಕರಗೇರ	ಪಶುವಿಜ್ಞಾನ ಅಭಿವೃದ್ಧಿ ಯೋಜನೆಗಳ ಯಶಸ್ವಿನಲ್ಲಿ ಸಮುದಾಯ ಬಾಗವಹಿಸುವಿಕೆಯ ಮಹತ್ವ	ಮೇ, 2007	ಪಶುವೈದ್ಯಕೀಯ ಮಹಾವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ	Veterinary College, Bidar
50	ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ ಮತ್ತು ಡಾ. ಕೆ. ಸಿ. ವೀರಣ್ಣ	ಮಲೆಗಾಲದಲ್ಲಿ ದನಗಳಿಗೆ ಐರವಹುದಾದ ರೋಗಗಳು ಮತ್ತು ಅವುಗಳ ನಿವಾರಣೆ	ಜುಲೈ, 2007	ಅನ್ನದಾತ	
51	ಡಾ. ಕೆ.ಸಿ.ವೀರಣ್ಣ ಮತ್ತು ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ	ಪಶುವಿಜ್ಞಾನ ಅಭಿವೃದ್ಧಿ ಯೋಜನೆಗಳ ಯಶಸ್ವಿನಲ್ಲಿ ಸಮುದಾಯ ಬಾಗವಹಿಸುವಿಕೆಯ ಮಹತ್ವ	ಮೇ, 2007	ಪಶುವೈದ್ಯಕೀಯ ಮಹಾವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ	
52	ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ ಮತ್ತು ಡಾ. ಕೆ. ಸಿ. ವೀರಣ್ಣ	ಮಲೆಗಾಲದಲ್ಲಿ ದನಗಳಿಗೆ ಐರವಹುದಾದ ರೋಗಗಳು ಮತ್ತು ಅವುಗಳ ನಿವಾರಣೆ	ಜುಲೈ, 2007	ಅನ್ನದಾತ	
53	ಡಾ. ಕೇಶವರಾಜ್, ಡಾ. ಪಿ. ಎಮ್. ಅಮ್ಜಾರ್, ಡಾ.ಕೆ.ಎಸ್.ನವೀನಕುಮಾರ & ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ	ಪೋಲಿಂಗ್‌ನಲ್ಲಿ ಒಳ ಪರೋಪಜೀವಿಗಳು ಮತ್ತು ಅವುಗಳ ನಿವಾರಣೆ	ಜುಲೈ, 2007	ಅನ್ನದಾತ	
54	ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ	ಕರುಗಳಲ್ಲಿ ದುಂದು ಹುಳುವಿನ ಖಾದಿ (Ascariasis)	ಆಗಸ್ಟ್, 2007	ಪ್ರಜಾವಾಣಿ	
55	ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ ಮತ್ತು ಡಾ. ಕೆ. ಸಿ. ವೀರಣ್ಣ	ಮೀದಿನ ಸದ್ದುಳಿತೆ, ಲಾಭದಾಯಕ ಕೃಷಿಗಾರಿಕೆಗೆ ಮಾರ್ಗ	ಸೆಪ್ಟೆಂಬರ್, 2007	ಅನ್ನದಾತ	
56	ಡಾ. ಕೆ. ಎಸ್. ನವೀನಕುಮಾರ, ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ ಮತ್ತು ಡಾ. ಎಮ್. ಎಮ್. ಅನ್ನಣ್ಣವರ	ಎಮ್ಮೆ ಹಾಲಿನ ಉಪಯುಕ್ತತೆ	ಡಿಸೆಂಬರ್, 2008	ಅನ್ನದಾತ	
57	ಡಾ. ಪ್ರದೀಪಕುಮಾರ, ಡಾ. ನವೀನಕುಮಾರ & ಡಾ.ಶಿವಕುಮಾರ ಕರಗೇರ	ಪೋಲಿಂಗ್ ಶೀತಕ್ಕರದ ಲಕ್ಷಣಗಳು, ಮುನ್ನೆಚ್ಚರಿಕಾ ಕ್ರಮಗಳು	ಫೆಬ್ರವರಿ, 2008	ಅನ್ನದಾತ	
58	Dr. N.A. Patil and Dr.Vivek R.Kasaralikar	Therapeutic management of Canine epilepsy	2008	Karnataka Veterinary Association Compendium for the Annual Conference 2008	



60	ಡಾ. ಕೆ. ಎ. ದೀಪ್ತ	ಕರುಗಳ ಪಾಲನೆ	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	Veterinary College, Bidar
61	ಡಾ.ಶಿವಕುಮಾರ ಕರಗೋಡ	ಬೇಸಿಗೆಯಲ್ಲಿ ಎವೈಗಳ ನಿರ್ವಹಣೆ	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	
62	Dr. N.A. Patil	Mastitis	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	
63	Dr.Vivek R.Kasaralikal	Milk Fever	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	
64	Dr. K.Ganesh and Dr. Ravindra Bhojar	"Vaccines for livestock and Poultry" in Kannada	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	
65	ಡಾ. ಎ. ಬಿ. ಶಿವಪ್ರಕಾಶ	ಜಾನುವಾರುಗಳಲ್ಲಿ ಕೊಂಚದ ತೊಂದರೆಗಳು ಮತ್ತು ಉಪಚಾರ	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	
66	Dr. D. Dilipkumar	Eye disorders and their management in cattle	ಏಪ್ರಿಲ್, 2007	ವಿಸ್ತರಣಾ ನಿರ್ದೇಶನಾಲಯ ಕವಪಮೀವಿವಿ, ಬೀದರ	
70	Prakash. N	Clinical Pharmacology and Forensic Toxicology-training manual for the 28 trainees-8 Articles	19 <sup>th</sup> Nov 07	Dept. Pharmacology and toxicology, Karnataka veterinary council	
71	Prakash.N	Toxicology of important field Poisonings and their antidote therapy	26 <sup>th</sup> Nov 07	Compendium of KVC Sponsored training manual of Department of clinical Medicine	
72	Prakash.N	Principles of drug interactions of veterinary clinical importance	Dec 2007	Compendium of KVA Sponsored technical seminar - Hospet	
73	Prakash.N	Selection of antimicrobials in veterinary clinics & important field poisonings	Jan 2008	Compendium of KVA Sponsored technical seminar Bijapur	
74	Sunilchandra.U	Clinical Pharmacology and Forensic Toxicology-training manual for the 28 trainees-3 Articles	19-11-2007	Dept. Pharmacology and toxicology, Karnataka veterinary council	
75	Vijaykumar.M	Clinical Pharmacology and Forensic Toxicology-training manual for the 28 trainees- 3 articles	19-11-2007	Dept. Pharmacology and toxicology, Karnataka veterinary council	
76	P.G.Waghmare S.A.Kochewad N.V.Jadhav	Management of Pregnant Cattle	Jan. 2007	Pashudhan : 33(01)	
77	Dr. Vivek R.Kasaralikal	ASCAD Training manual on "Diagnosis and treatment of animal diseases"	2008	Veterinary College, Bidar	
78	Dr. N.A. Patil, Dr. Vivek R.Kasaralikal Dr. S.P. Sarangmath	KVC training manual for Officers of Dept of AH & VS on "Advances in diagnosis & treatment of economically	2007	Dept. of Clinical Medicine and Dept. of Preventive Medicine	
79	Dr. N.A. Patil and Dr. S.P. Sarangmath	KVC training programme for veterinary Livestock Inspectors important diseases of farm Animals"	2007	Dept. of Clinical Medicine	

80	Dr. Suresh S. Honnappagol, Dr. M.K. Tandle and Dr. Mahesh S. Doddamani	Management of functional infertility in Bovines	15-12-2007	KVA, Bellary.	Veterinary College, Bidar
81	Dr. R.B. Dhabele	Pregnancy loss from omission in she buffalo	March 2008	Pashudhan	
82	ARGO	Training Manual	2007	Dept. of ARGO and KLDA	
83	Dr. V.B.Shettar	Exposure to Animal Breeding (Book)	15.08.2007	Pragatipar Vedike Prakashan, Haveri	Veterinary College, Shimoga
84	Manjunatha, L.	Souvenir cum compendium, Veterinary College, Shimoga, KVAFSU as Associate Editor	May, 2007	Veterinary College, Shimoga	
85	Manjunatha L, Jagadish Hiremath Prof.M.G.Govindaiah	Malnad Region, A Bird's Eye View	May, 2007; Souvenir cum compendium VCS,Shimoga	Veterinary College, Shimoga	
86	Dr. Rudresh, B.H. Dr. V.B.Shettar Dr. M.G.Govindaiah	Challenges and Future Focus Areas in Large Ruminants' Breeding.	18.05.2007	Souvenir Cum compendium of Inauguration of Campus of Shimoga on	
87	Dr. M.G.Govindaiah Dr. V.B.Shettar Dr. Rudresh B.H.	ಮಲನಾಡು ಪ್ರದೇಶದ ಪಶು ಪ್ರಜಾಪಾಲನೆ ಮತ್ತು ಅಭಿವೃದ್ಧಿಯ ದಾಖಲೆ	18.05.2007	Souvenir Cum compendium of Inauguration of Campus of Shimoga on	
88	Dr. M.G.Govindaiah, Dr. Manjunatha, L. & Dr. Chidanandaiah	ಮಲನಾಡು ಮತ್ತು ಪಶು ಪ್ರಜಾಪಾಲನೆ ಮತ್ತು ಅಭಿವೃದ್ಧಿ	May, 2007; Souvenir cum compendium VCS,Shimoga	Souvenir cum compendium, VCS, Shimoga,KVAFSU	
89	Dr. M.S.Vasanth	Training manual on Small animal surgery	June 2007	Karnataka Vety Council	
90	Dr. E. Narayanappa	C.M.P. Practices	May 2007	Annadatha	DSC, B'lore
91	Mridula R.M. and Rajesh K.M	Management & Conservation of Mangroves	2007	Aqua International, 15(4) : 23-25	College of Fisheries, Mangalore
92	Mridula R.M., Somashekar S.R, Anjaneyappa H.N and Rajesh K.M	Management of Inland Fisheries Resources of Karnataka	2007	Aqua International, 15 (5) : 32-34	
93	Somashekar S.R, Mridula R.M, Rajesh K.M and Anjaneyappa H.N.	Marine Fisheries Scenario of Karnataka A Brief Retrospect	2007	Sea Queen, 1(7) : 12-14	
94	K. Chandra Mohan and S.Benakappa	Larvivorous fishes in freshwater realms	2008	Aqua International, 16 (3): 35-36	
95	S.M.Shivaprakash	Coastal Fishery resources of India with special reference to Karnataka Management Implication	2007	A chapter in the book on marine fishery resources and biodiversity. Published by Dept. of Marine Geology, Mangalor University.	
96	Rajesh K.M, H.Hanumanthappa, N.Manjappa and Mridula Rajesh	Aquarium nirmana, nirvahane hagu alankarika menu sakane.	2007	Annadatha, 2(2) : 48-52	
97	Dr. Shankar	EUS in Fish	2007	KVAFSU	



98	Dr. Shankar	RapiDot Manual	2008	KVAFSU	FC, M'lore
99	Dr. Mohan. P Dr. Naveen Kumar. S	Internship practical record on sheep farm & its practices Prepared	July, 2008	Livestock Research & Information Centre (Sheep), Research staff	LRIC, Nega Mangala
100	Dr. Mohan. P Dr. Naveen Kumar. S	Information of Bannur breed of sheep	Nov., 2007	Annadatha	
101	Dr. Mohan. P Dr. Naveen Kumar. S	Dysuse atrophy in a dog	June, 2008	Pashudhan	
102	Dr. K V Mohire	1. Training manual on "Intensive Aquaculture in Ponds and Tanks" for Bangalore Rural, Urban, Tumkur & Kolar Farmers	2007		FRIC, Hebbal & Hesara Ghatta Bangalore
103		2. Report on NFDB Training Programme	2007		
104		3. Popular article "Intensive fish farming" in training manual Integrated Farming for Agri. Entrepreneurs SIRD Assam	2007		

### KVAFSU Library Information

Veterinary College Library has a very good collection of books and journals pertaining to animal and Veterinary Sciences. The infrastructure development of the library has been continued Rs. 11.98 lakhs were spent on different items during the financial year 2007-08 for development of library and information resources. The library book stack has been enhanced by 444 reference/textbooks worth of Rs. 5.58 lakhs. The library has Subscribed CD. ROM i.e. VET-CD database (1972-2008) for Rs. 2.65 lakhs and also presently library is subscribing 38 Indian and 09 foreign journals for Rs. 3,75,224/- to keep the students and faculty abreast of the latest Scientific & technical developments both in India and abroad. Beside these,

the library subscribes to 16 Nos, general magazines and 08 Nos. News papers and receives 16 titles News letters, Annual Report and popular magazines gratis publications from SAUs, ICAR institutes and other Indian organizations.

The library has 1687 back volumes since 1950. The library has 885 Master, Doctoral theses and during current financial year library has got

In the news clipping services also providing pertaining to Veterinary/Animal, dairy and fisheries in general were collected. amount these most of clippings are related to veterinary and dairy disciplines.

### Library Receipts

Sl Nos.	Particulars	Amount
01	Over dues charges	17,899.00
02	B.L.C.R.	Nil
03	L.R.T.	Nil
04	Reprographic services	1843.00
05	Text book bank	2530.00

Library Collection (as on 31.03.2008)

Sl Nos.	Particulars	Nos
01	Books	5426
02	Thesis	885
03	Reports	44
04	pamphlets	nil
05	Back volumes	1687
06	Journals	38(indian)
		09 (foreign)
07	Others (Specify gift journals)	16

1. Name of the Institution/Campus	Veterinary College library p.b.no.06, Nandinagar, Bidar
2. Library working days	1. (Actual no. to be given) on all working days it will remain open. 2. on all general holidays it will remain close
3. Working hours a) Week days b) Saturday c) Sunday	8.30 a.m. to 8.00 p.m. 8.30 a.m. to 4.00 p.m. 8.30 a.m. to 12.30 p.m.
4. Membership (total as on 31.03.2008) a) Staff b) Students UG PG Ph.D c) Others	65 312    22
5. No. of visitors A) Staff B) Students C) Out siders	2569 5638 123
a. No. of books issued 1. Staff 2. Students	4635 5858
7. No. of books consulted in the library a) Books b) Back volumes c) Burrent journals	68,300 37360 21000 9940

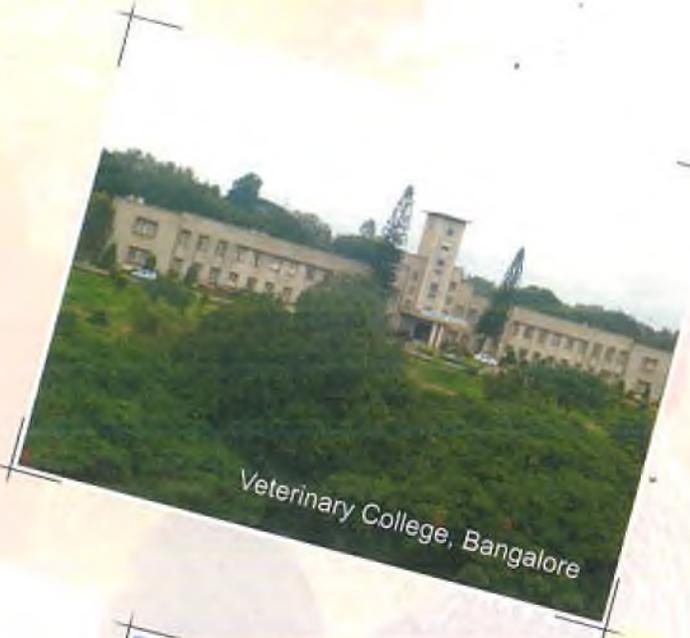


### 15. Distinguished visitors to the Institute

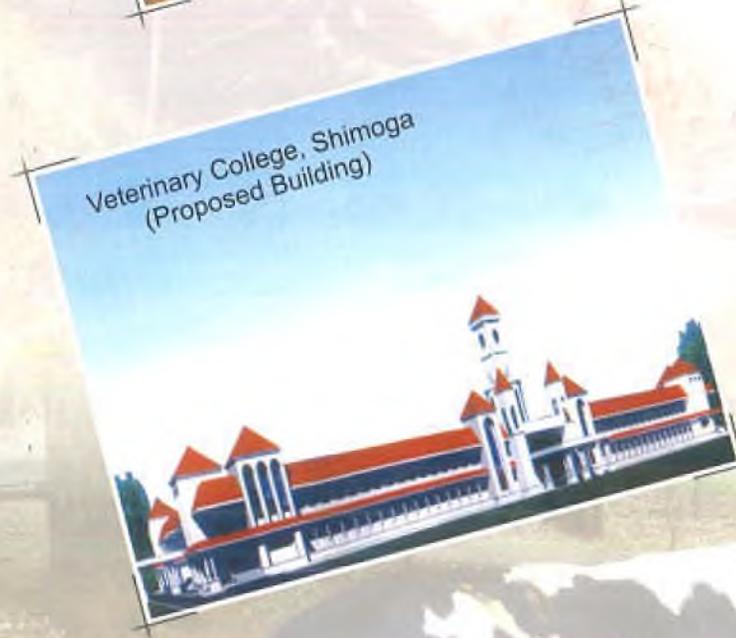
Sl No	Name	Designation & Institute	Date	Purpose	Institute
1	Dr. R N S Gowda	Ex Vice Chancellor, KVAFSU	Feb 9, 08	Farewell Function	- Veterinary College, Hebbal, Bangalore
2	Dr.Sreenivas Rao	Director, National Institute of Animal Health & CL Davis Foundation, USA.	March 5,08	Discussions on CL Davis Foundation study centre and Talk on Comparative Gross Pathology	
3	Dr S K Vijayasarithi	Head, Advinus	Feb 28,08	Discussion on participation in STOX symposium	
4	Mr. Siddique	Hon`ble member of Board of Management , KVAFSU	19.5.07	To review the progress of Dept. of LPM	
5	Dr. Ramesh Jakhmala	Director, CSWRI, Regional Station, Bikaner	25.5.07	To discuss Rumen fermentation research	
6	Dr. M.R.Gajendragad	Asst. Director of PDADMAS, Bangalore	28.5.07	To examine animals for disease investigation	
7	Dr. Saha	Dean, Veterinary College, Bhubaneswar	29.6.07	Farm visit and discuss	
8	Dr. Phi & Shi	International visiting farmers , Taiwan	2.8.07	To gain knowledge on Dairy farming	
9	Vivekananda S.K.	Karnataka State Human Rights Council, Bangalore.	5-7-07	To know the information of Management and Production of Broiler Rabbits.	
10	Dr. R. P. Sharma	Director, PDP, Hyderabad	26-12-2007	To review progress of AICRP	
11	Mr. Kalitha	Director, SIRD, Assam	16-01-2008	Supply of Giriraja Hatching Eggs.	
12	Dr. K. Sukumar	Assistant Professor, Dept of Microbiology, Veterinary College & Research Institute, Namakkal, Tamilnadu	31.07.07 to 01.08.07	As External Examiner for VMC 211 & 221 - II BVSc & AH Board practical exam	
13	Dr. P. X. Antony	Assistant Professor, Dept of Microbiology, Pondicherry	03.08.07 to 25.08.07	As External Examiner for VMC 311 & 321 - III BVSc & AH Board practical exam	
14	Dr. Parimal Roy	Professor, Dept of Microbiology, TANUVASU, Chennai	02.02.08	As External Examiner for Qualifying examination of MVSc students	
15	Dr Salma Mohammed Hugo ochoq, Peter Williams, Abdulfatah nour	Faculty of Purdue University, USA	1.6.2007	Interaction with Staff	
16	Dr Gert Breur	Faculty of Purdue University, USA.	18-19.2.2008	Interaction with Staff	
17	Dr. R.N.Shrinivas Gowda	Vice-Chancellor, KVAFSU	21.04.2007	"A long way to go" Keep group, growing & propagating the technology to rural poor & farmers	Veterinary College, Shimoga
18	Professor H.Nom, Director of International Progress in Veterinary Medicine, School of Veterinary Medicine, Purdue University West Lafayette, IN47907 visited the campus on 01/06/07				Institute of Animal Health & Veterinary Biological Hebbal, Bangalore
19	Fred Oehma, Kansas State University, KS 66506, USA visited the institute on 8/10/2007				
20	David Wilson, OIE, Australia visited the Institute on 23/11/2007				
21	Shyam Mewara, C&S, AH & Dairy, Assam visited the institute on 22/12/07				



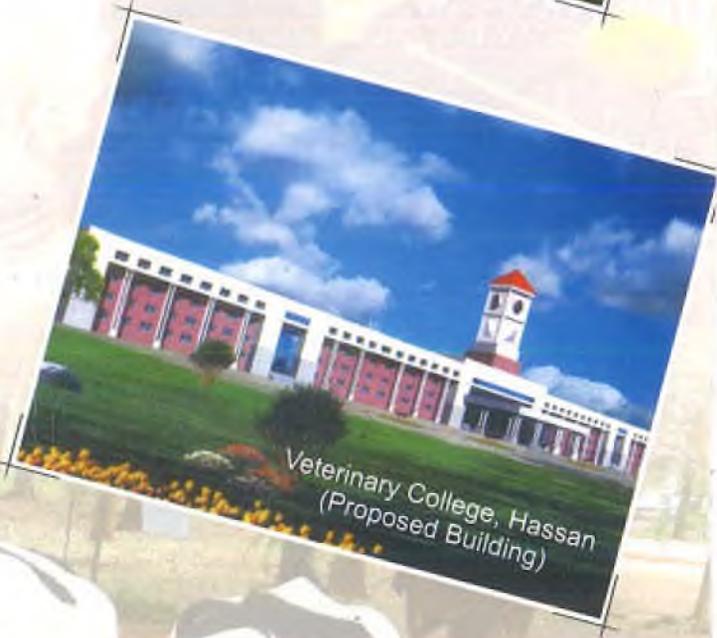
Veterinary College, Bidar



Veterinary College, Bangalore



Veterinary College, Shimoga  
(Proposed Building)



Veterinary College, Hassan  
(Proposed Building)



Dairy Science College, Bangalore



College of Fisheries, Mangalore



## 16. Information on Extension Education Council, important decisions taken

### Directorate of Extension

After the establishment of The Karnataka Veterinary, Animal and Fisheries University during 2005 as per ACT 2004 of the Government of Karnataka, the Directorate of Extension was established for conduct of extension education programmes and transfer the rural oriented technologies to the farming community in the areas of Veterinary, Animal, Dairy and Fisheries Sciences in Karnataka. The logo of the University is inscribed with the slogan 'Farmers friendly and Rural Oriented', which emphasizes the importance given to betterment of farming community.

#### Mandate

To organize and coordinate various extension programmes and outreach activities for the benefit of farming community. To coordinate with the officers, teachers and scientists of the University and Line Departments in the conduct of different extension activities and other outreach programmes for the benefit of farmers/entrepreneurs and industry in the areas of Veterinary, Animal, Dairy and Fisheries Science and Technology. To undertake transfer of technologies and popularization of developed/refined technologies for the benefit of farming community in the state.

#### Highlights of Extension Education programmes carried out during the period

- Organised series of training programmes for farmers/farm women and officers of the Line Departments/NGO's/other organizations in the areas of Veterinary, Animal, Dairy and Fisheries Sciences and Technology.

- Organized farmers meet, workshops, animal health camps and other on-campus and off-campus meetings for farmers and farm women.
- Organised and coordinated few major exhibitions and pashu/matsya mela for the benefit of farming community in association with Agriculture Universities/Line Departments/other organisations.
- Conducted demonstrations, field trails, field days, case studies, surveys and other farm oriented activities in Animal, Dairy and Fishery Science to popularize the new/improved technologies in Karnataka.
- Adopted villages and Livestock/Dairy/Fish farms for transfer of technologies and for overall improvement in the social-economic conditions of villages/farmers and as means of rural development.
- Organised a series of Radio/TV programmes in the areas of Veterinary, Animal Dairy and Fisheries Science and Technology.
- Published university News Letters, Annual Reports, Calenders, Leaflets, Pamphlets, Package of practices and other publications in different areas from time to time.

#### New initiatives

The University has initiated to establish three Extension Education Wings one each at Bidar, Bangalore and Mangalore, and to create about 50 technical and non technical posts under the Directorate. A farmer training Hostel is being built at Bidar campus with the ICAR funding support (1.5 Crores).

### Important decisions taken in the 3rd Extension Education Council (EEC) Meeting of the KVAFSU, Bidar

#### Creation of Posts / Institutes

The Director of Extension presented proposals for creation of new institutions / posts under the Directorate.

1. Extension Education Wings at Bidar, Bangalore and Mangalore Campuses. The following posts were approved for placing in the Academic Council Meeting

Sl.No.	Post	For One Unit	For Three Units
1.	Associate Director of Extension (Professor)	01	03
2.	Associate Professor	02	06
3.	Subject Master Specialist	05	15
4.	Assistant	01	03
5.	Cook-cum-care taker	01	03
6.	Driver	01	03
7.	Attender	01	06

2. Technical posts at the Head Quarter of the Directorate (Bidlar) : The following posts were recommended to the Academic Council

Sl.No.	Post	No. Of Posts
1.	Editor (Associate Professor Cadre)	01
2.	Senior Technical Assistant to DE ( Professor Cadre)	01
3.	Assistant	02
4.	Attender	01

3. Information and Communication Technology Centre (ICTC) : The following posts were approved by the Council to be placed before the Academic Council

Sl.No.	Post	No. Of Posts
1.	Information Specialist (Professor Cadre)	01
2.	Assistant Professor	01
3.	Photographer	01
4.	Assistant	01
5.	Attender	01

4. Creation of one Assitant Professor (SMS) post at each LRIC/FRIC : The following posts LRIC/FRIC were approved for placing before the Academic Council.

Sl.No.	Post	No. of Posts
1.	LRIC, Konehalli	01
2.	LRIC, Nagamangala	01
3.	LRIC, Hesaragatta	01
4.	FRIC, Hesaragatta	01
5.	FRIC, Hesaragatta	01
6.	LRIC, Deoni Farm	01
7.	FRIC, Ankola	01
8.	LRIC, Bandur	01
9.	LRIC Kurikuppe	01
10.	FRIC, Munirabad	01
11.	FRIC, Shivapura	01

