RURAL ORIENTED & FARMER FRIENDLY

KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY

12th Annual Report
2016-17



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KVAFSU



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12th Annual Report

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KVAFSU

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Preface

It is heartening to take note that after experiencing draught conditions in the state last year we had copious rain fall this year in the state bringing smiles on farmers. A good monsoon always heralds bumper harvest of not only agriculture crops but also a boon for livestock sector that gets surplus fodder boosting milk production in the dairy sector. Hope this trend of good monsoon will continue and help farmers to reap bumper crops.

"Research without extension is hobby, but extension without research is shallow and teaching without research and extension is hollow". But, KVAFSU being a farm varsity, it carries out teaching, research and extension under its three tier system to enable its pupils to come out with good knowledge practical exposure to become entrepreneurs. Further, the teachers, scientists and extension functionaries will be able to address field oriented problems to find suitable solutions through research and practical demonstrations. KVAFSU have been completed 58 Research projects amounting to Rs.1512.76 lakhs with the funding support from State Government, Government of India, Department of Bio-technology, Indian Council of Agriculture Research, Private Institutions and National and International Organizations during 2016-17. Besides, 163 ongoing projects to the tune of Rs.3415.27 lakhs are in progress.

In order to cater to the needs of farmers in rural areas, the University has been carrying out need based research in various institutes and also established research and information centers across the state. Our scientists have developed several diagnostic kits, vaccines for diagnosis and prevention of diseases in livestock, poultry and fisheries sector.

To strengthen the research activities within the University and to provide opportunities for scientists and students, the University has signed MoUs with one International and six National organizations. It is hoped that the collaborative works will be of immense value to the society.

Place: Bidar

Vice-Chancellor

Editorial

The University has established Extension Education Centers (EECs) at Bengaluru, Bidar, Shivamogga and Hassan Campuses for the transfer of technologies developed by KVAFSU scientists to the un-reached farming community. The University is propagating and popularizing its technologies to the farmers through series of training programmes, demonstrations, animal health camps, field days, farmer-scientists interactions, awareness programmes, treatment of medical, surgical and reproductive problems at Veterinary Colleges, Krishi Melas, Farmers Meets, Village Adoptions, Publication of Folders, Bulletins and Books on Package of Practices in local language for the benefit of farming community and News Letters and Annual Reports of the University. Besides farmers, the university also trains departmental staff / KVK SMSs regarding latest technological advancements and shares the knowledge with neighboring state's scientists through model training courses etc.

A total of 113 Radio/TV programmes were given of which 54 were Radio talks and 59 were TV programmes. A total of 145 Animal Health Camps were conducted and 11,001 animals were treated in the camp. A total of 240 demonstrations were conducted. A total of 1,49,063 Animal Health Care Services were provided to the farmers and Diagnostic Services provided were 17,203 and 11,455 Consultancy / Advisory Services were provided. A total of 244 Training Programmes / Workshops / Conference / Seminars were conducted in 2016-17 and a total of 759 Scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Resource Scientists and 403 Scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Trainee Scientists.

Besides, plans are afoot to start three more Animal Husbandry Polytechnics at Koravangala-Hassan, Bargi-Chamarajanagara and Dornalli-Yadgir districts. With these three, the state will have a total of five polytechnics spread across the State, catering 10th passed rural students to enroll for these diploma course. In addition to services of extension activities undertaken by the University, it is also proposed to publish success stories of farmers across the state who have demonstrated the successful extension of profitable animal husbandry technologies under the supervision of our scientists so that they will be stimulation to other entrepreneurs to adapt the same in their farms. It is hoped that more and more invigorative extension programmes will be initiated under SUJALA Phase-III to help the farmers to double their income.

Place: Bidar

Chief Editor &
Director of Extension

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Mandate of the University

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

- To impart higher quality education in different branches of study, particularly veterinary and animal sciences, fisheries and other allied sciences.
- Advancement of learning and research, particularly in veterinary science, dairy science, fisheries science and other allied sciences to the rural people of the state
- 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 purpose as the State Government may specify by notification.

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

Chairman : Dr. C. Renukaprasad, Vice-Chancellor
Dr. R.V. Prasad, Vice-Chancellor (Acting)

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

Other Members: Mr. Iresh, B. Anchatageri
Mrs. Lumbini Goutam
Dr. S.G. Konapur
Mr. K.C. Shankregowda
Mr. Ritesh Salian
Mr. K.S. Ashok Kumar
Dr. P.I. Ganesan
Dr. T.S. Chandrashekar Rao
Dr. (Mrs.) R. Kalpana Shastri

OUR INSTITUTIONS

1. Colleges

1) Veterinary College, Hebbal, Bengaluru, established in 1958
2) Veterinary College, Nandi Nagar, Bidar, established in 1984
3) Veterinary College, Shivamogga, established in 2006
4) Veterinary College, Hassan, established in 2007
5) Dairy Science College, Hebbal, Bengaluru, established in 1980
6) Dairy Science College, Kalaburagi, established in 2008
7) College of Fisheries, Mangaluru, established in 1969
8) Veterinary College, Gadag (to be established)
9) Veterinary College, Athani, Belgaum (to be established)
10) Veterinary College, Puttur, Dakshina Kannada (to be established)

2. Animal Husbandry Polytechnics

1) Animal Husbandry Polytechnic, Konehalli, Tiptur Taluk, Tumakuru District
2) Animal Husbandry Polytechnic, Kunnur, Shiggaon Taluk, Haveri District

3. Research Institute

1) Institute of Animal Health and Veterinary Biologicals, Hebbal, Bengaluru
2) Institute of Wild Life Veterinary Research, Doddaluvara, Kudige, Dist. Coorg
3) Livestock Research and Information Center, (Deoni), Hallikhed, Bidar
4) Livestock Research and Information Center (Amruthmahal and Hallikar), Konehalli, Tumkur
5) Livestock Research and Information Center (Sheep), Nagamangala
6) Livestock Research and Information Center (Buffalo), Dornalli, Yadgir
7) Canine Research and Information Center, Timmapur, Mudhol, Bagalkot
8) Fisheries Research and Information Center (Inland), Hebbal, Bengaluru
9) Fisheries Research and Information Center (Inland), Hesaraghatta, Bengaluru
10) Fisheries Research and Information Centre, (Marine), Ankola, Uttar Kannada
11) Fish Seed Production Farm, Shivapura, Koppal (to be taken over / established)
12) Rural Veterinary Hospital, Yelahanka, Bengaluru
13) Veterinary Hospital, APMC, Bidar
14) Livestock Research and Information Center, Gollahalli, Mulabagilu, Kolar

3. Krishi Vigyan Kendra

1) Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru

4. Extension Education Centers/ Institutes

1) Extension Education Center, Bengaluru
2) Extension Education Center, Bidar
3) Extension Education Center, Hassan
4) Extension Education Center, Shivamogga
5) Farmers' Training Hostel, Bidar

Officers of the University during the period (2016-17)

1	Vice-Chancellor, KVAFSU, Bidar	**Dr. C. Renukaprasad** **Dr. R.V. Prasad**
2	Registrar, KVAFSU, Bidar	**Dr. Chandrapal Singh, K.** **Dr. H. Shivananda Murthy**
3	Director of Extension, KVAFSU, Bidar	**Dr. S.M. Shivaprakasha**
4	Director of Research, KVAFSU, Bidar	**Dr. S.M. Usturge**
5	Director of Instruction (PGS), KVAFSU, Bidar	**Dr. U.S. Biradar** **Dr. Nadeem Fairoz**
6	Controller of Examinations, KVAFSU, Bidar	**Dr. M.M. Appannavar**
7	Director of Student Welfare, KVAFSU, Bidar	**Dr. Yashwanth Kumar**
8	University Librarian, KVAFSU, Bidar	**Dr. U.S. Jadhav**
9	Dean, Veterinary College, Bidar	**Dr. B.V. Shivaprakash**
10	Dean, Veterinary College, Bengaluru	**Dr. S. Yathiraj** **Dr. H.N. Narasimhamurthy**
11	Dean, Veterinary College, Shivamogga	**Dr. K.C. Veeranna**
12	Dean, Veterinary College, Hassan	**Dr. M.S. Vasant**
13	Dean, Dairy Science College, Bengaluru	**Dr. Narasimha Murthy** **Dr. H.M. Jayaprakash**
14	Dean, College of Fisheries, Mangaluru	**Dr. K. M. Shankar** **Dr. M.N. Venugopal**
15	Director, IAH&VB, Hebbal, Bengaluru	**Dr. S.M. Byregowda**
16	Director, IWVR, Doddaluvara, Kodagu	**Dr. Ganesh Udupa**
17	Head of Division-Pre & Para Clinical Sciences	**Dr. Placid, E. D'Souza**
18	Head of Division-Clinical Sciences	**Dr. M. Narayana Bhat**
19	Head of Division-Animal and Poultry Sciences	**Dr. Nadeem Fairoze** **Dr. M.R. Jayashankar**
20	Head of Division-Fisheries Science	**Dr. B.A. Shamsunder**
21	Head of Division-Dairy Science	**Dr. Lalit Achot** **Dr. H.M. Jayaprakash**
22	Comptroller, KVAFSU, Bidar	**Mr. Mallikarjun Ligade**
23	Estate Officer, KVAFSU, Bidar	**Er. M.K. Satish**

EXECUTIVE SUMMARY

To accomplish productivity in Animal Husbandry, Dairying, Poultry and Fisheries, Government of Karnataka started the Veterinary, Animal and Fisheries Sciences University at Bidar during 2005 with the motto of **'Rural Oriented and Farmer Friendly'.** The University has initiated several measures to help farmers to improve their livelihood security through various activities.

TEACHING

Teaching is the prime concern of the University. The teaching activities are being carried out in three major disciplines at six campuses through seven colleges under the jurisdiction of this University. Undergraduate degree programmes in Veterinary and Animal Husbandry are being offered at Bidar, Bengaluru, Shivamogga and Hassan, while, Dairy Science at Bengaluru and Kalaburagi and similarly, College of Fisheries at Mangaluru. In addition to these, the Government of Karnataka has sanctioned three more Veterinary Colleges at Gadag, Athani-Belgaum and Puttur-Dakshina Kannada. Further, two Animal Husbandry Polytechnics are functioning at Konehalli-Tumkur and Kunnur-Haveri.

The University offers Masters programme in **18** disciplines and Doctoral programme in **14** disciplines in Veterinary and Animal Sciences. In Dairy Science **03** Masters and **03** Doctoral programmes are currently underway. Similarly, in Fisheries Science **06** Masters and **05** Doctoral degree programmes are being offered.

During 2016-17, In Veterinary and Animal Sciences **64** obtained Masters degree and **14** received Doctoral degrees. In Fisheries, **24** have taken Masters degree and **05** awarded Doctoral degrees.

Admission under various degree programmes to KVAFSU was undertaken during 2016-17 and the intake was **368** students for UG programmes. Among **368** under graduate students, admitted to various degree programmes **264** were for BVSc&AH degree at Bengaluru, Bidar, Shivamogga and Hassan campuses and 61 for B.Tech. (Dairy). Degree and **43** for B.F.Sc. Degree. A total **90** students were admitted for Animal Husbandry Polytechnics at Shiggaon and Konehalli respectively.

A good number of graduates of this University qualified in Indian Council of Agricultural Research Junior Research Fellowship and secured PG admissions in many prestigious institutes like Indian Veterinary Research Institute, National Dairy Research Institute and Central Institute of Fisheries Education and also in overseas Institutions.

RESEARCH

"Research without extension is hobby, but extension without research is shallow and teaching without research and extension is hollow". But, KVAFSU being a farm varsity, it carries out teaching, research and extension under its three tier system to enable its pupils to come out with good knowledge practical exposure to become entrepreneurs. Further, the teachers, scientists and extension functionaries will be able to address field oriented problems to find suitable solutions through research and practical demonstrations. KVAFSU have been completed **58** Research Projects amounting to **Rs. 1512.76 lakhs** with the funding support from State Government, GOI, Dept. of Bio-technology, ICAR, private institutions and National and International organizations during 2016-17. Besides, **163** Ongoing Projects amounting to **Rs.3415.27 lakhs** are in progress.

In order to cater to the needs of farmers in rural areas, the University has been carrying out need based research in various institutes and also established Research & Information Centers across the state. Our scientists of the University have published **410** Research Papers in Journals of National and International repute, out of which **143** are International and **267** are National. Our scientists have developed several diagnostic kits, vaccines for diagnosis and prevention of diseases in animals, poultry and fisheries sector.

To strengthen the research activities, the University has signed Memorandum of Understanding with one International and four National organizations.

EXTENSION

The University has one Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru and four Extension Education Centers at Bengaluru, Bidar, Shivamogga and Hassan Campuses for the transfer of technologies developed by the university scientists to the un-reached farming community. The University has adapted Villages and providing ambulatory clinical services. University also popularizing its technologies to the farmers through series of training programmes, demonstrations, animal health camps, field days, farmer-scientists interaction, awareness programmes, treatment of medical, surgical and reproductive problems, Krishimelas, Farmers Meet, Publication of folders, Bulletins and Books on Package of Practices in local language for the benefit of farming community and News Letters and Annual Reports of the University. Besides farmers, the university also trains departmental staff / Krishi Vigyan Kendra Subject Matter Specialists regarding latest technological advancements and shares the knowledge with neighboring state's scientists through model training courses etc.

A total of **113** Radio/TV programmes were given of which **54** were Radio talks and **59** were TV programmes. A total of **145** Animal Health Camps were conducted and **11,001** animals were treated in the camp. A total of **240** demonstrations were conducted. A total of **1,49,063** animal health care services were provided to the farmers and diagnostic services provided were **17,203** and **11,455** consultancy / advisory services were provided. A total of **244** Training Programmes / Workshops / Conference / Seminars were conducted in 2016-17. University scientists were participated in the **759** Training Programmes / Workshops / Conference / Seminars as Resource Scientists and participated in the **398** Training Programmes / Workshops / Conference / Seminars as Trainee Scientists.

IMPORTANT MEETINGS HELD AT KVAFSU, BIDAR DURING 2016-17

#	*Meetings*	*Date*	*Place*
Meetings of Board of Management			
1	74th Adjourned Meeting of Board of Management	23.04.2016	Bengaluru
2	Emergency Meeting of Board of Management	31.05.2016	Bengaluru
3	75th Meeting of Board of Management	18.06.2016	Bidar
4	Special Meeting of Board of Management	28.07.2016	Bengaluru
5	76th Meeting of Board of Management	23.08.2016	Bidar
6	Special Meeting of Board of Management	18.11.2016	Bengaluru
7	77th Meeting of Board of Management	22.12.2016	Bengaluru
8	78th Meeting of Board of Management	31.03.2017	Bengaluru
Academic Council Meetings			
1	25th Meeting of Academic Council	29.06.2016	Bidar
2	26th Meeting of Academic Council	27.08.2016	Bengaluru
3	27th Meeting of Academic Council	19.12.2016	Bidar
Extension Education Council Meetings			
1	11th Meeting of Extension Education Council	28.06.2016	Bidar
Extension and Publicity Sub-Committee Meetings			
1	9th Meeting of Extension & Publicity Sub-Committee	27.03.2017	Bengaluru
Research Council Meetings			
1	11th Meeting of Research Council	28.06.2016	Bidar
Farm Development Committee Meetings			
1	11th Meeting of Farm Development Committee	03.09.2016	Bengaluru
Planning and Works Committee Meetings			
1	24th Meeting of Planning & Works Committee	09.08.2016	Bidar
2	25th Meeting of Planning & Works Committee	21.12.2016	Bengaluru
Finance Committee Meetings			
1	34th Meeting of Finance Committee	21.04.2016	Bengaluru
2	35th Meeting of Finance Committee	10.08.2016	Bidar
3	36th Meeting of Finance Committee	28.12.2016	Bengaluru
4	36th Adjourned Meeting of Finance Committee	21.04.2016	Bengaluru
5	37th Meeting of Finance Committee	28.03.2017	Bengaluru

I. TEACHING

1) Teaching Institutions

#	*Teaching Institute with Location*	*Year of Establishment*	*Name of the Dean / Director / Principal*	*Degree Programmes Offered*
1	Veterinary College, Bengaluru	1958	Dr. S. Yathiraj Dr. H. N. Narasimhamurthy	B.V.Sc.&A.H. M.V.Sc. Ph.D.
2	Veterinary College, Bidar	1984	Dr. B.V. Shivaprakash	B.V.Sc.&A.H. M.V.Sc. Ph.D.
3	Veterinary College, Shivamogga	2006	Dr. K.C. Veeranna	B.V.Sc.&A.H. M.V.Sc.
4	Veterinary College, Hassan	2007	Dr. Vasanth, M.S.	B.V.Sc.&A.H.
5	Dairy Science College, Bengaluru	1980	Dr. Narasimha Murthy Dr. H.M. Jayaprakasha	B.Tech. (D.Tech) M.Tech. (Dairy Science) Ph.D. (Dairy Science) MBA (Food & Dairy Business)
6	Dairy Science College, Kalaburagi	2008	Dr. H. Manjunatha	B.Tech. (D.Tech)
7	College of Fisheries, Mangaluru	1969	Dr. K.M. Shankar Dr. M.N. Venugopal	B.F.Sc. M.F.Sc. Ph.D.
8	Institute of Wildlife and Veterinary Research, Kodagu	2007	Dr. Ganesh Udupa	M.V.Sc. (Wildlife)
9	Animal Husbadry Polytechnic, Konehalli, Tiptur	2011	Dr. Shivakumar, R.	Animal Husbandry Diploma
10	Animal Husbadry Polytechnic, Kunnur, Shiggaon	2012	Dr. Shivakumar, K. Radder	Animal Husbandry Diploma

2) Number of Students admitted/on roll to undergraduate degree programme

Sl. No.	*Degree Programme*	*Year*					*No. Passed out*	*College / Institute*
		I	*II*	*III*	*IV*	*V*		
1	B.V.Sc.&A.H.	71	77	44	51	85	**52**	Veterinary College, Bengaluru
2	B.V.Sc.&A.H.	53	67	39	53	55	**41**	Veterinary College, Bidar
3	B.V.Sc.&A.H.	74	59	28	50	46	**46**	Veterinary College, Shivamogga
4	B.V.Sc.&A.H.	66	80	43	38	46	**46**	Veterinary College, Hassan
5	B.Tech. (D.Tech)	38	37	37	40	NA	**39**	Dairy Science College, Bengaluru
6	B.Tech. (D.Tech)	23	20	21	20	NA	**19**	Dairy Science College, Kalburagi
7	B.F.Sc.	43	33	31	33	NA	**42**	College of Fisheries, Mangaluru
8	Animal Husbandry Diploma	47	47	NA	NA	NA	**44**	Animal Husbandry Polytechnic, Konehalli, Tiptur
9	Animal Husbandry Diploma	43	46	NA	NA	NA	**41**	Animal Husbandry Polytechnic, Kunnur, Shiggaon

NA:- Not Applicable

3) Number of Students admitted to Postgraduate Degree and Ph.D. Programmes

#	Department	Masters Degree			Ph.D.			
		On roll		Completed	On roll			Completed
		I	II	2016-17	I	II	III	2016-17
VETERINARY COLLEGE, BENGALURU								
1	Animal Genetics and Breeding	2	1	3	1	2	2	1
2	Animal Nutrition	3	2	2	2	1	1	-
3	Livestock Production and Management	3	2	3	-	2	-	2
4	Livestock Products and Technology	3	3	1	-	-	-	-
5	Poultry Science	4	3	2	1	1	2	-
6	Veterinary Animal Husbandry Extension	3	2	2	-	-	-	-
7	Veterinary Anatomy and Histology	-	-	4	2	3	1	-
8	Veterinary Biochemistry	2	2	2	2	2	-	-
9	Veterinary Gynecology and Obstetrics	4	6	8	3	1	2	1
10	Veterinary Medicine	6	3	4	4	1	2	3
11	Veterinary Microbiology	3	3	3	2	3	2	3
12	Veterinary Parasitology	2	3	2	4	-	1	1
13	Veterinary Pathology	6	5	5	5	2	3	1
14	Veterinary Pharmacology and Toxicology	5	4	2	1	-	1	1
15	Veterinary Physiology	1	1	2	1	2	1	-
16	Veterinary Surgery and Radiology	8	3	2	2	1	1	1
17	Veterinary Wildlife	3	3	2	-	-	-	-
	Total (A)	**58**	**46**	**49**	**30**	**21**	**19**	**14**
VETERINARY COLLEGE, BIDAR								
1	Livestock Management and Production	2	1	-	2	1	-	-
2	Veterinary Anatomy and Histology	1	1	-	-	-	-	-
3	Veterinary Gyna ecology and Obstetrics	7	4	-	-	-	-	-
4	Veterinary Medicine	5	3	3	-	-	-	-
5	Veterinary Microbiology	1	1	2	1	2	-	-
6	Veterinary Physiology	2	1	2	-	-	-	-
7	Veterinary Surgery and Radiology	4	3	4	2	1	3	-

8	Animal Genetics and Breeding	-	3	3	-	-	-	-
9	Animal Nutrition	-	-	-	-	-	1	-
10	Veterinary Anatomy	-	-	1				-
	Total (B)	**22**	**17**	**15**	**05**	**04**	**04**	**-**
VETERINARY COLLEGE, SHIVAMOGGA								
1	Veterinary Pharmacology and Toxicology	3	1	-	-	-	-	-
2	Veterinary Public Health and Epidemiology	3	1	-	-	-	-	-
3	Veterinary and Animal Husbandry Extension	3	1	-	-	-	-	-
4	Animal Nutrition	3	-	-	-	-	-	-
	Total (C)	**12**	**03**	**-**	**-**	**-**	**-**	**-**
DAIRY SCIENCE COLLEGE, BENGALURU								
1	Dairy Technology	5	9	-	1	1	2	-
2	Dairy Chemistry	4	4	-	-	1	-	-
3	Dairy Microbiology	2	2	-	1	-	-	-
	Total (D)	**11**	**15**	**-**	**02**	**02**	**02**	**-**
COLLEGE OF FISHERIES, MANGALURU								
1	Aquaculture	8	6	9	4	2	0	0
2	Fisheries Microbiology	4	4	2	1	0	0	1
3	Fisheries Resources and Management	7	6	7	4	2	2	2
4	Aquatic Environment Management	6	6	3	1	1	0	1
5	Fish Processing Technology	5	4	3	1	3	0	1
6	Fisheries Engineering Technology	1	0	0	0	0	0	0
	Total (E)	**31**	**26**	**24**	**11**	**08**	**02**	**05**
	Grand Total	**134**	**107**	**88**	**48**	**35**	**27**	**19**

4) Academic Excellence

(i) Scholarships / Fellowships received

UNDERGRADUATE

ANIMAL AND VETERINARY SCIENCES

#	*Scholarship*	*Year*					*Total*
		I	*II*	*III*	*IV*	*V*	
General Scholarship							
1	Veterinary College, Bengaluru	6	6	3	4	6	**25**
2	Veterinary College, Bidar	6	-	-	2	-	**08**
3	Veterinary College, Shivamogga	8	7	3	6	4	**28**
4	Veterinary College, Hassan	7	8	5	4	2	**26**
Merit Scholarship							
1	Veterinary College, Bengaluru	2	2	2	2	2	**10**
2	Veterinary College, Bidar	2	2	2	2	-	**08**
3	Veterinary College, Shivamogga	2	2	2	2	2	**10**
4	Veterinary College, Hassan	2	2	2	2	2	**10**
National Talent Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	2	6	-	-	1	**09**
3	Veterinary College, Shivamogga	5	8	-	-	-	**13**
4	Veterinary College, Hassan	-	-	-	-	-	**-**
Student Aid Fund							
1	Veterinary College, Bengaluru	6	-	3	4	-	**13**
2	Veterinary College, Bidar	-	-	-	-	-	**-**
3	Veterinary College, Shivamogga	-	1	-	2	-	**03**
4	Veterinary College, Hassan	-	-	-	-	-	**-**
Fee Concession from BCM							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	-	-	-	-	-	**-**
3	Veterinary College, Shivamogga	27	16	7	15	23	**88**
4	Veterinary College, Hassan	-	-	-	-	-	**-**
e-Pass Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	17	21	15	21	19	**93**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
4	Veterinary College, Hassan	-	-	-	-	-	**-**
SC/ST Govt. of India Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	6	10	7	6	9	**38**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
4	Veterinary College, Hassan	7	5	10	2	7	**31**

University Fee Concession							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	3	3	-	4	-	**10**
4	Veterinary College, Hassan	-	-	-	-	-	-
Handicaps Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	1	-	-	-	-	**01**
4	Veterinary College, Hassan	1	2	-	-	1	**04**
SC Scholarship from SWO							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	4	3	2	1	1	**11**
4	Veterinary College, Hassan	-	-	-	-	-	-
ST Scholarship from SWO							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	5	-	-	-	-	**05**
4	Veterinary College, Hassan	-	-	-	-	-	-
Sitharam Jindal Foundation Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	3	3	**06**
4	Veterinary College, Hassan	-	-	1	-	-	**01**
MHRD Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	6	**06**
4	Veterinary College, Hassan	-	-	-	-	-	-
Central Sectors Scheme of Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	7	7	-	-	-	**14**
4	Veterinary College, Hassan	-	-	-	-	-	-
PMSS Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	1	-	-	-	**01**
4	Veterinary College, Hassan	-	-	-	-	-	-
Prathiba Puraskar Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	1	-	-	-	**01**
4	Veterinary College, Hassan	-	-	-	-	-	-

ICAR Fellowship for Internship Training Programme							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	46	**46**
4	Veterinary College, Hassan	-	-	-	-	-	-
Merit Cum-Means Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	5	1	1	1	-	**08**
4	Veterinary College, Hassan	-	-	-	-	-	-
BCM Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	16	14	7	12	22	**71**
	Total	**147**	**128**	**72**	**95**	**156**	**598**

DAIRY SCIENCE

#	*Scholarship*	*Year*				*Total*
		I	*II*	*III*	*IV*	
General Scholarship						
1	Dairy Science College, Bengaluru	5	5	5	5	**20**
2	Dairy Science College, Kalaburagi	-	-	-	-	-
Merit Scholarship						
1	Dairy Science College, Bengaluru	2	2	2	2	**08**
2	Dairy Science College, Kalaburagi	2	2	1	2	**07**
Department of Social Welfare, GoK						
1	Dairy Science College, Bengaluru	-	-	-	-	-
2	Dairy Science College, Kalaburagi	1	1	6	2	**10**
Department of Backward Classes Welfare, GoK						
1	Dairy Science College, Bengaluru	-	-	-	-	-
2	Dairy Science College, Kalaburagi	12	9	10	13	**44**
	Total	**22**	**19**	**24**	**24**	**89**

FISHERY SCIENCE (COLLEGE OF FISHERIES, MANGALURU)

#	*Scholarship / Fellowship*	*B.F.Sc.*				*Total*
		I	*II*	*III*	*IV*	
1	General Scholarship	-	-	-	1	01
2	Merit Scholarship	2	2	2	2	08
3	BCM	21	11	12	11	55
4	National Talent Scholarship	4	1	-	1	06
5	MCM-ICAR	-	-	-	2	02
6	EBL - GOI	-	7	9	2	18
7	Internship - ICAR	-	-	-	33	33
8	Implant Training	-	-	-	33	33
	Total	**27**	**21**	**23**	**85**	**156**

Abstract of Undergraduate Scholarship

#	*Scholarship*	*VCH*	*VCB*	*VCS*	*HVC*	*DSCH*	*DSCK*	*FCM*	*Total*
1	General Scholarship	25	08	28	26	20	-	01	**108**
2	Merit Scholarship	10	08	10	10	08	07	08	**61**
3	National Talent Scholarship	00	09	13	-	-	-	06	**28**
4	Student Aid Fund	13	-	03	-	-	-	-	**16**
5	Fee Concession from BCM	-	-	88	-	-	-	-	**88**
6	e-Pass Scholarship	-	93	-	-	-	-	-	**93**
7	SC/ST Govt. of India Scholarship	-	38	-	31	-	-	-	**69**
8	University Fee Concession	-	-	10	-	-	-	-	**10**
9	Handicaps Scholarship	-	-	01	04	-	-	-	**5**
10	SC Scholarship from SWO	-	-	11	-	-	-	-	**11**
11	ST Scholarship from SWO	-	-	05	-	-	-	-	**5**
12	Sitharam Jindal Foundation Scholarship	-	-	06	01	-	-	-	**7**
13	MHRD Scholarship	-	-	06	-	-	-	-	**6**
14	Central Sectors Scheme of Scholarship	-	-	14	-	-	-	-	**14**
15	PMSS Scholarship	-	-	01	-	-	-	-	**1**
16	Prathiba Puraskar Scholarship	-	-	01	-	-	-	-	**1**
17	ICAR Fellowship for Internship Training Programme	-	-	46	-	-	-	-	**46**
18	Merit Cum-Means Scholarship	-	-	08	-	-	-	-	**8**
19	Department of Social Welfare, GoK	-	-	-					
20	Department of Backward Classes Welfare, GoK	-	-						
21	BCM Scholarship	-	-	-	71	-	-	55	**126**
22	MCM-ICAR	-	-	-	-	-	-	02	**2**
23	EBL - GOI	-	-	-	-	-	-	18	**18**
24	Internship - ICAR	-	-	-	-	-	-	33	**33**
25	Implant Training	-	-	-	-	-	-	33	**33**
	Total	**48**	**156**	**251**	**143**	**28**	**07**	**156**	**789**

POSTGRADUATE

ANIMAL AND VETERINARY SCIENCES

#	Scholarship	MVSc.		Ph.D			Total
		I	II	I	II	III	
Merit Scholarship							
1	Veterinary College, Bengaluru	15	14	2	-	-	**31**
2	Veterinary College, Bidar	6	5	-	-	-	**11**
3	Veterinary College, Shivamogga	4	2	-	-	-	**06**
Student Aid Fund							
1	Veterinary College, Bengaluru	5	-	-	-	-	**05**
2	Veterinary College, Bidar	-	-	-	-	-	**-**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
URMS Scholarship							
1	Veterinary College, Bengaluru	15	14	2	-	-	**31**
2	Veterinary College, Bidar	-	-	-	-	-	**-**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
National Tallent Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	1	-	-	-	-	**01**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
e-Pass Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	9	-	-	-	-	**09**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
SC/ST Govt. of India Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	4	2	-	-	-	**06**
3	Veterinary College, Shivamogga	-	-	-	-	-	**-**
Fee Concession from BCM							
1	Veterinary College, Bengaluru	-	-	-	-	-	**-**
2	Veterinary College, Bidar	-	-	-	-	-	**-**
3	Veterinary College, Shivamogga	5	1	-	-	-	**06**
	Total	**64**	**38**	**04**	**-**	**-**	**106**

DAIRY SCIENCE

#	Scholarship	M.Tech.		Ph.D			Total
		I	II	I	II	III	
Dairy Science College, Bengaluru							
1	Merit Scholarship	3	3	1	-	-	**7**
2	Student Aid Fund	2	-	-	-	-	**2**
	Total	**05**	**03**	**01**	**-**	**-**	**09**

FISHERY SCIENCE

#	Scholarship / Fellowship	*M.F.Sc.*		*Ph.D.*			*Total*
		I	*II*	*I*	*II*	*III*	
1	Merit Scholarship	4	5	3	3	-	**15**
2	Student Aid Fund	2	-	-	-	-	**02**
3	EBL - GOI	3	-	-	-	-	**03**
4	ICAR-JRF	1	1	-	-	-	**02**
5	BCM	5	5	-	-	-	**10**
	Total	**15**	**11**	**03**	**03**	**-**	**32**

Abstract of Postgraduate (MVSc & Ph.D) Scholarship

#	*Scholarship*	*VCH*	*VCB*	*VCS*	*DSCH*	*FCM*	*Total*
1	Merit Scholarship	31	11	06	07	15	**70**
2	Student Aid Fund	05	-	-	02	02	**09**
3	URMS Scholarship	31	-	-	-	-	**31**
4	National Talent Scholarship	-	01	-	-	-	**01**
5	e-Pass Scholarship	-	09	-	-	-	**09**
6	SC/ST Govt. of India Scholarship	-	06	-	-	-	**06**
7	Fee Concession from BCM	-	-	06	-	-	**06**
8	EBL - GOI	-	-	-	-	03	**03**
9	ICAR-JRF	-	-	-	-	02	**02**
10	BCM	-	-	-	-	10	**10**
	Total	**67**	**27**	**12**	**09**	**32**	**147**

(ii) UG Gold Medals Awarded: - Convocation not held during 2016-17

(iii) PG Gold Medals Awarded: - Convocation not held during 2016-17

5) Academic Research (Postgraduate Research)

Thesis accepted during the year 2016-17 for Masters and Doctoral Degree

i) Master's Degree:

Sl. No.	*Thesis Title*	*Name of the Student*	*Major Advisor and Dept.*
VETERINARY COLLEGE, BENGALURU			
1	Morphological studies on hind limb bones in sloth bear (*Melursus ursinus*)	Darshan, C.S.	Dr. Jamuna, K.V.
2	Studies on the morphology of muscles of shoulder and arm in sloth bear (*Melursus ursinus*)	Annie, V.R.	Dr. Jamuna, K.V.
3	Studies on the morphology of muscles of forearm and manus in sloth bear (*Melursus ursinus*)	Shruti	Dr. Jamuna, K.V.
4	Morphology and immunohistochemical studies on the localization of immunoglobulins in irregular areolae of porcine placenta	Sindhu, K.D.	Dr. Jamuna, K.V.
5	Studies on hematological and biochemical profile during late pregnancy and early postpartum in Nari suwarna ewes	Mallappa Talawar	Dr. Narayana Swamy, M.
6	Clinico-pathological studies and diagnosis of ehrlichiosis in dogs	Arun, P.	Dr. Sathyanarayana, M.L.
7	Evaluation of prognostic value of survivin in cutaneous and subcutaneous tumours of dogs	Kavya, N.	Dr. Suguna Rao
8	A longitudinal study on thyroid profile and certain reproductive hormonal profile at different stages of pregnancy in Nari suwarna ewes	Shwetha, H.S.	Dr. Narayana Swamy, M.
9	Studies on haemato-biochemical and pathological alterations in renal failure of dogs	Dilip Kumar, D.N.	Dr. Narayanaswamy, H.D.
10	Pathomorphological and biochemical evaluation of methotrexate induced hepatotoxicity and its amelioration by eugenia jambolana in rats	Vijaya Kumar, N.	Dr. Suguna Rao
11	Studies on thyroid and lipid profile in German shepherd dogs	Chetan Yadav, S.	Dr. Narayana Swamy, M.
12	Pharmacokinetic study of ketoprofen loaded polymeric nanomaterial in rats	Sindhu, B.M.	Dr. Jagadeesh, S.S.
13	Hepatoprotective activity and toxicity studies of phyllanthus tenellus	Sunil Kumar, K.B.	Dr. Shridhdar, N.B.

14	Evaluation of antibacterial, anti-inflammatory activity and dermal toxicity study of cassia tora	Thirumala, M.	Dr. Shridhdar, N.B.
15	Standardization and application of rabies virus neutralizing antibody assay for assessment of vaccinal efficacy in dogs	Neelufer, M.S.	Dr. Shrikrishna Isloor
16	Isolation and molecular characterization of canine parvovirus	Kamal Hasan	Dr. Rathnamma, D.
17	Isolation and standardization of diagnostic assay for the detection of *Bacillus anthracis* in livestock	Anil Kumar, S.	Dr. Veeregowda, B.M.
18	Studies on *in vitro* efficacy of citriodora oil for control of fleas in sheep	Ashwini, M.S.	Dr. Puttalakshmamma, G.C.
19	Epidemiological studies and molecular characterization of theileria species in sheep and goats	Shruthi, R.	Dr. Thimmareddy, P.M.
20	Certain epidemiological and molecular studies of fasciola infected snails in some areas of Karnataka	Rajanna, R.	Dr. Thimmareddy, P.M.
21	Evaluation of clinical efficacy of vincristin sulfate and doxorubicin in the treatment of canine transmissible venereal tumour	Deepti, C.R.	Dr. Chandrashekera Murthy, V.
22	Studies on factors influencing maternal survivability in crossbred cows undergoing caesarean section	Viswanath, S.	Dr. Chandrashekera Murthy, V.
23	Haematological, biochemical and uterine tocodynamometric studies in cases of dystocia due to uterine inertia in female dogs	Chethana, D.H.	Dr. Krishnaswamy, A.
24	Evaluation of mifepristone and estradiol valerate as post coital contraceptive drugs in female dogs	Debajyoti, S.	Dr. Krishnaswamy, A.
25	A study on laparoscopic artificial insemination using different sperm concentration in ewes	Rudresh, G.N.	Dr. Sudha, G.
26	Studies on pre and post surgical evaluation of female dogs affected with pyometra	Sandeepa, K.H.	Dr. Krishnaswamy, A.
27	Studies on different estrus synchronization protocols on conception rate in ewes	Mahendra, S.	Dr. Sudha, G.
28	A study on certain viral diseases of cats based on rapid test kits	Mayur, T.C.	Dr. Ansar Kamran, C.
29	Diagnosis of pancreatitis in dogs	Srinidhi Bhat	Dr. Yathiraj, S.
30	Serosurveillance of peste des petits ruminants (PPR) in sheep and goats	Yatheesh Chandra	Dr. Ramesh, P.T.

31	Certain studies on diabetes mellitus in canines	Shruthi, J.S.	Dr. Ramesh, P.T.
32	Studies on occurrence of tick borne diseases in dogs with special reference to diagnosis of ehrlichiosis	Rakesh, V.	Dr. Kshama, M.
33	Ultrasonographical, cytological and bacteriological studies of urinary bladder disorders in dogs	Shwetha, R.	Dr. Ansar Kamran, C.
34	Studies on babesiosis in dogs	Mohan Kumar	Dr. Murlidhara
35	Studies on percutaneous transfemoro-acetabular nylon wiring for subluxation/ luxation in hip dysplastic dogs	Avinash, B.G.	Dr. Nagaraja, B.N.
36	Studies on percutaneous transfemoro-acetabular nylon zap strap application for the repair of subluxation / luxation in hip dysplastic dogs	Amith, N.G.	Dr. Nagaraja, B.N.
37	Studies on tensioning device (zip tie) application around the tumour mass in compromised dogs	Pramodh, J.K.	Dr. Nagaraja, B.N.
38	Studies on the efficacy of paclitaxel and docetaxel as anticancer drugs in the management of malignant mammary tumor in dogs	Parameswara, K.T.	Dr. Ranganath, L.
39	Proteomic and genomic studies associated with qualitative traits in chicken meat	Hemashree, P.	Dr. Girish Kumar, V.
40	Identification of seminal rnas as indicators of reproductive performance in bulls.	Sunil Kumar, K.K.	Dr. Girish Kumar, V.
41	Study on serosurveillance of foot and mouth disease (FMD) in elephants	Sridhar, R.N.	Dr. Ramesh, P.T.
42	Studies on the bacterial and fungal skin diseases in captive snakes	Meghana, P.P.	Dr. Upendra, H.A.
43	Studies on shell diseases of captive turtles	Preeti, G.S.	Dr. Yathiraj, S.
44	Studies on gastro-intestinal parasites of Asian elephants	Darshan, S.	Dr. Muralidhara, A.
45	Studies on gastro-intestinal parasites of deer (*Axis axis*)	Kalpana, K.	Dr. Thimmaredy, P.M.
46	Effect of feeding maize (*Zea mays*) husk and cob based complete feed block on the growth performance of Mandya sheep	Shashikumar, M.G.	Dr. Prabhu, T.M.
47	Effect of supplementing slow release nitrogen product on the lactation performance of dairy cows	Veena, N.	Dr. Chandrapal Singh, K.

48	A study on ovar-drb1 gene polymorphism in Mandya sheep	Rani Singh	Dr. Nagaraja, R.
49	A comparative study on cgh gene polymorphism and their association with growth traits in Swarnadhara and Giriraja chicken	Harish Kumar, D.V.	Dr. Jayashankar, M.R.
50	A comparative study on mtnr-1a gene polymorphism between Mandya and Nari-suwarna sheep	Vibha, C.R.	Dr. Nagaraja, R.
51	Evaluation of comparative performance of Giriraja under intensive and semi-system of rearing	Prakash, M.	Dr. Munegowda, T.
52	Effect of supplementation of bacterial probiotic on the growth performance	Prashanth, J.K.	Dr. Jayanaik
53	Effect of supplementation of acidifier on the performance of Raja II broilers	Doke Vijay Balajirao	Dr. Munegowda, T.
54	Effect of supplementation of various levels of inulin on growth performance	Praveen	Dr. Munegowda, T.
55	Comparative evaluation of Giriraja and Raja II under intensive and semi-intensive system of rearing	Nagavath Nemya Naik	Dr. Munegowda, T.
56	Effect of supplementation of probiotic on the performance of weaned piglets	Supriya, S.	Dr. Rajeshwari, Y.B.
57	Studies on the growth performance of Mandya lambs reared under intensive and semi-intensive system of management	Sudharshan, V.	Dr. Rajeshwari, Y.B.
58	Effect of weaning at different age intervals on performance of piglets	Banuprakash, A.R.	Dr. Rajeshwari, Y.B.
59	Development of software application on fodder production and its effectiveness among livestock farmers of Karnataka	Pavan Belakeri	Dr. Satyanarayan, K.
60	An exploratory study on factors affecting open days in crossbred cattle in Bengaluru Rural district	Chandrashekar, G.K.	Dr. Jagadeeswary, V.
VETERINARY COLLEGE, BIDAR			
1	Comparative histological and histochemical study of larynx in deccani sheep and Bidri goat	Anjali	Dr. Ashok Pawar
2	Comparative histomorphology and histochemical study of superficial lymph nodes in Deccani sheep (*Ovies aries*) and Bidri goat (*Capra hircus*)	Aditya	Dr. Gadre, K.M.
3	Efficacy of brucella vaccine in goat	Math Revapayya	Dr. Basawaraj Awati
4	Efficacy of goat pox vaccine in goats	Abhilash, B.	Dr. Basawaraj Awati
5	Haemato-biochemical profile in dystotic cows and buffaloes	Amar Dhurve	Dr. Tandle, M.K.

6	Evaluation of two herbal spray preparations in management of cervico-vaginal prolapse in buffaloes	Ningadalli Sharanabasappa	Dr. Tandle, M.K.
7	Study on musculoskeletal disorders in dogs and small ruminants with special reference to diagnosis using radiography and C-arm	Kendesh	Dr. Dilipkumar, D.
8	Evaluation of ropivacaine, articaine and lignocaine for regional analgesia in buffaloes undergoing surgery	Prashant	Dr. Shivaprakash, B.V.
9	Evaluation of dexmedetomidine and xylazine sedation for ketamine-isoflurane general anaesthesia in cattle undergoing clinical surgeries	Vinutha, K.G.	Dr. Shivaprakash, B.V.
10	Comparative evaluation of dexmedetomidine, xylazine and triflupromazine as preanaesthetics with propofol induction and isoflurane anaesthetic combination for various surgeries in dogs	Arunkumar	Dr. Dilipkumar, D.
11	Diagnosis and therapeutic management of bacterial pneumonia in bovines	Yallappa, S.I.	Dr. Patil, N.A.
12	Study on diagnosis and therapeutic management of canine ehrlichiosis	Roopali, B.	Dr. Vivek, R.K.
13	Study on metabolic profile of Deoni cows in transition period	Sateesh, A.G.	Dr. Vivek, R.K
14	Diagnosis and therapeutic management of babesiosis in cattle	Chethana, H.B.	Dr. Patil, N.A.
15	Effect of different seasons on physiological and biochemical profile of Deoni and Deoni crossbred cattle	Chandrashekhar, B.	Dr. Shrikant Kulkarni
16	Efficacy of serum gonadotrophin, estradiol-17β, estrus buffalo serum and buffalo follicular fluid supplementation on *in vitro* maturation of buffalo oocytes	Ambadas	Dr. Shrikant Kulkarni
17	Evaluation of different antioxidant supplements on *in vitro* maturation of buffalo oocytes	Vijayalakshmi	Dr. Shrikant Kulkarni
18	Comparative study on meat characters of Yalaga, Kenguri and Bannur sheep	Mohammad Saqawat Hussain	Dr. Appannavar, M.M.
19	Genetic polymorphism of fecb and bmp15 genes in Kenguri and Kenguri×Nari suwarna (F1) strain of sheep	Asharani, A.D.	Dr. Appannavar, M.M.
20	Phenotypic characterization of Jayawadagi goat	Devendrappa, N.B.	Dr. Appannavar, M.M.

DAIRY SCIENCE COLLEGE, BENGALURU			
1	Development of enriched misti *dahi*	Soumyashree, T.C.	Dr. Venkatesh, M.
2	Development of enriched yoghurt using date syrup and whey protein concentrate	Yashaswini, N.N.	Dr. Arun Kumar, H.
3	Development of low calorie ice cream with fibers incorporation	Supriya, K.	Dr. Ramanchandra Rao, H.G.
4	Development of low calorie synbiotic lassi	Immadi Sree Bhavya	Dr. Ramanchandra Rao, H.G.
5	Development of whey based probiotic fruit beverage	Lakshmikanth, A.V.	Dr. Puranik, D.B.
6	Development of low fat probiotic paneer	Vellore Sri Teja	Dr. Vankatesh, M.
7	Studies on compositional features and therapeutic properties of milk from Malnad gidda (*Bos indicus*) cattle	Yuvaraja, Y.	Dr. Narasimha Murthy
8	Performance of microflora of kefir prepared from cow and goat milk	Manthani Vyshnavi	Dr. Prabha, R.
9	*In-vitro* bioavailability of iron from iron fortified yoghurt blended with oat (*Avena sativa*) milk	Dhavalagi Pallavi	Dr. Jayashri, P.H.
10	Quality attributes of safflower milk (*Carthamus tinctorius*) blended probiotic shrikhand	Jadhav Vijay Prabhakar	Dr. Jayashri, P.H.
11	Physico - chemical quality of goat milk yoghurt blended with cow milk	Sudeep, M.N.	Dr. Kemppanna, C.
12	Performance evaluation of antibiotic resistance probiotic lactic acid bacterial isolates in the preparation of *dahi*	Madhusudan, N.M.	Dr. Manjunath, H.
COLLEGE OF FISHERIES, MANGALURU			
1	Flocculation of white spot virus (WSV) of shrimp by organic flocculent for field level detection by a monoclonal antibody (MAB) based flow-through assay (Rapidot)	Camerson Donald Ghambi	Dr. Shankar, K.M.
2	Production of monosex male gift strain (*Oreochromis niloticus*)	Mahadevi	Dr. Basavaraja, N.
3	Hormone-induced sex manipulation in Amur common carp	Inchara, U.B.	Dr. Shankar, K.M.
4	Effect of dietary supplementation of dl-methionine on growth	Subhadip Mandal	Dr. Shivanand Murthy, H.
5	Effect of dietary supplementation of mannan oligosaccharide on growth, survival and immune response of Indian major carp, *Catla catla*	Monica, K.S.	Dr. Jayaraj, E.G.
6	Effect of l-threonine supplemented diets on Growth, survival, immune response and disease Resistance of Indian major carp, labeo rohita at two stocking densities	Jayashri Mahadev Swamy	Dr. Shivanand Murthy, H.

7	Evaluation of stability of reagents of nano gold labelled monoclonal antibody for flow-through assay (immunogold test)	Shridevi, P.	Dr. Shankar, K.M.
8	Development and characterization of rabbit anti- serum against acute hepatopancreatic necrosis disease (AHPND)	Srinivas, K.H.	Dr. Ramesh, K.S.
9	Study of chaetognaths and jellyfishes in the coastal waters off Mangaluru	Pema Chotten Wangja	Dr. Lakshmipathi, M.T.
10	Combined effect of gamma irradiation and low temperature storage on the microbial and bio- chemical quality of fish (*Pangasius hypophthalmus*)	Mahendra Uikey	Dr. Manja Naik, B.
11	Development of gender friendly refrigerated fish vending and display unit using solar energy to enhance the keeping quality of fish	Gayatri Pandey	Dr. Raju, C.V.
12	Protective efficacy of dsrna against white Spot syndrome virus (WSSV) infection in shrimp	Puneeth, T.G.	Dr. Venugopal, M.N.
13	Prevalence and characterization of listeria spp. from shrimp culture environment in Karnataka	Madhushree, H.N.	Dr. Venugopal, M.N.
14	Cloning and expression of defense gene from shrimp	Shreeharsha, J.M.	Dr. Girisha, S.K.
15	Dna barcoding of three endemic species of genus barilius (family: cyprinidae) from western ghats, Karnataka	Venugopal, R.	Dr. Anjanayappa, H.N.
16	Studies on biological aspects of the crab, Charybdis lucifera (fabricius, 1798) off Mangaluru coast	Suma	Dr. Anjanayappa, H.N.
17	Studies on biodiversity of pelagic fishes off Malpe coast	Sahana, K.	Dr. Somashekara, S.R.
18	Studies on some aspects of biology and body composition of Indian scad, decapterus russelli (ruppell, 1830), off Mangaluru coast	Ashwini, L.	Dr. Benakappa, S.
19	Studies on biological aspects of rainbow sardine, dussumieria acuta, valenciennes,1847, with a note on sardine fishery off Mangaluru coast	Halesha, K.	Dr. Anjanayappa, H.N.
20	Studies on mangroves and associated finfish and shellfish biodiversity of Netravathi estuary	Manjushree, A.S.	Dr. Somashekara, S.R.

ii) Doctoral Degree:

Sl. No.	*Thesis Title*	*Name of the Student Degree*	*Major Advisor and Dept.*
VETERINARY COLLEGE, BENGALURU			
1	Expression of immunogenic protein of peste des petits ruminants virus in heterologous system and it's role as a putative immunogen	Amitha Reena Gomes	Dr. Veeregowda, B.M.
2	Expression of immunogenic protein of peste des petits ruminants virus in heterologous system and it's role as a putative immunogen	Remesh, M.G.	Dr. Shrikrishna Isloor
3	Conventional PCR based estimation of the load of *Staphylococcus aureus* and *Escherichia coli* in bovine mastitis milk samples	Chandrashekar, K.M.	Dr. Shrikrishna Isloor
4	Studies on house fly infestation in poultry farms with emphasis on its management	Archana, M.	Dr. Placid, E. D'Souza
5	Pathological studies of ochratoxicosis and its amelioration using diatomaceous earth And vitamin E in broiler chicken	Dheerendra Naik	Dr. Satyanarayana, M.L.
6	Diagnostic value of survivin in spontaneous canine and induced rat mammary gland tumors	Kishor, T.K.	Dr. Suguna Rao
7	Haematological and biochemical studies in relation to severity in open and closed pyometra in bitches	Lakshmikanth, T.R.	Dr. Chandrashekhar Murthy, V.
8	Studies on periodontal disease in dogs	Santosh, P.S.	Dr. Yathiraj, S.
9	Evaluation of diagnostic techniques of sub acute ruminal acidosis (sara) in milch cows	Bipin, K.C.	Dr. Ramesh, P.T.
10	Detection and therapy of subclinical mastitis in goats	Sandeep Halmandge	Dr. Upendra, H.A.
11	Genetic studies on local goats in Mandya District of Karnataka	Siddalinga Murthy, H.K.	Dr. Jayashankar, M.R.
12	Effect of dietary supplementation of inorganic, organic and nano zinc for meat and egg production in chicken	Siddhartha Shankar Pathak	Dr. Venkata Reddy, K.
13	Study on the market demands for quality attributes of small ruminants and management strategies towards improving market value and livelihood of shepherds	Biradar Satish Chandra	Dr. Rajeshwari, Y.B.

14	A study on the effect of fibrolytic enzymes on the *in vitro* rumen fermentation, feed intake, nutrient digestibility and lactation performance in crossbred dairy cattle	Anup Kumar, P.K.	Dr. Rajeshwari, Y.B.
15	Biochemical and molecular characterization of mycoplasma species of small ruminants	Rudrappa, S.M.	Dr. Grish Kumar
DAIRY SCIENCE COLLEGE, BENGALURU			
1	Performance of lactic acid bacterial isolates of *dahi* samples in the development of honey enriched probiotic lassi	Ramachandra, B.	Dr. Manjunatha
COLLEGE OF FISHERIES, MANGALURU			
1	Screening and quantification of pesticide and heavy metal residues from selected lakes of Bengaluru Urban	Livi Wilson	Dr. Reddy, H.R.V.
2	Gel forming and setting ability of a few selected fish species as affected by freezing and frozen	Supreetha, B.U.	Dr. Shamasundar, B.A.
3	Expression of defense genes in tiger shrimp penaeus monodon) to white spot syndrome virus (WSSV) infection	Rajeish Moger	Dr. Indrani Karunasagar
4	Studies on pelagic fisheries in relation to oceanographic parameters and population characteristics of rastrelliger kanagurta off Mangaluru coast Karnataka	Jitendra Kumar	Dr. Benakappa, S.

6) Library and Information Services

(i) Print Media (books, journals/periodicals)

#	*Particulars*	*VCH & DSCH*	*VCB*	*VCS*	*HVC*	*DSCK*	*FCM*	*TOTAL*
1	Books	15602	12575	5816	6142	2206	16,936	**59,277**
2	Theses	1796	981	1	--	--	829	**3,607**
3	Reports	1004	4444	22	--	--	3220	**8,690**
4	Pamphlets	712	502	25	--	--	965	**2,204**
5	Bound Volumes	11178	981	93	--	--	6357	**18,609**
6	Gift Books	1312	450	20	--	95	410	**2,287**
7	SC/ST Books	2418	2390	820	823	320	550	**7,321**
8	Indian Journals	31	27	11	43	--	14	**126**
9	Foreign Journals	18	05	-	02	--	2	**27**
10	Back Volumes	11178	981	93	841	--	--	**13,093**
11	Others E-Books	1002	1002	1002	12	340	430	**3,788**
	Total	**46,251**	**24,338**	**7,903**	**7,863**	**2,961**	**29,713**	**1,19,029**

(ii) Non-print Media (e-resources) - list of e-journals/CD

#	*Particulars*	*VCH & DSCH*	*VCB*	*VCS*	*HVC*	*DSCK*	*FCM*	*Total*
1	e-journals / CD	Subscribed through jccc@cera	Subscribed through jccc@cera	Subscribed through jccc@cera	Subscribed through jccc@cera	CeRA not getting due to net and accreditation brpblem	Subscribed through jccc@cera	More than 145
2	CeRA e-Journals	Subscribed from University Library	Subscribed from University Library	Subscribed from University Library	Subscribed from University Library	500 Subscribed from University Library	463 Subscribed from University Library	1002 + 150 CeRA

(iii) Membership Usage

#	*Particulars*	*VCH & DSCH*	*VCB*	*VCS*	*HVC*	*DSCK*	*FCM*	*Total*
1	Students at UG Level: average of /day	182	180	255	267	84	156	**1,124**
2	Students at PG Level Level: average of /day	148	25	15	--	--	90	**278**
3	Staff Level: average of /day	15	10	60	36	19	25	**165**
	Total	**345**	**215**	**330**	**303**	**103**	**271**	**1,567**

7) Student Welfare Activities

DIRECTORATE OF STUDENT WELFARE, KVAFSU, BIDAR

Ist KVAFSU Inter Animal Husbandry Polytechnics Sports Meet-2016

Ist KVAFSU Inter Animal Husbandry Polytechnics Sports Meet-2016 was organized by the Directorate of Student Welfare, KVAFSU, Bidar on 19th September, 2016 at Veterinary College, Bidar. The students from two constituent Polytechnics of Konehalli and Shiggaon participated in the Sports Meet. The Sports Meet was inaugurated by Dr. C. Renukaprasad, Hon`ble Vice-Chancellor, KVAFSU, Bidar. Smt. Lumbani Gowtham, Hon`ble Board of Management, KVAFSU, Bidar; Dr. S.M. Usturge, Director of Research, KVAFSU, Bidar; Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar; Sri. Mllikarjun Ligade, Comptroller, KVAFSU, Bidar; Mr. Ramappa, Executive Engineer, KVAFSU, Bidar; Dr. M.M. Appanawar, Controller of Examination, KVAFSU, Bidar; Dr. U.S. Jadhav, Librarian, KVAFSU, Bidar had participated. Dr. Yeshwant Kumar, Director of Student Welfare, KVAFSU, Bidar was the Chief Guest and Dr. B.V. Shivaprakash, Dean, Veterinary College, Bidar presided over the function.

The Valedictory function was organized on 19th September, 2016. Dr. Yeshwant Kumar, Director of Student Welfare and Dr. Shivakumar, Principal, Animal Husbandry Polytechnic College, Konehalli were present and Dr. B.V. Shivaprakash, Dean, Veterinary College, Bidar presided over the function.

The sports meet was successfully organized by the Directorate of Student Welfare for the first time and Animal Husbandry Polytechnic, Konehalli was the Overall Champions of the Sports Meet-2016.

12th KVAFSU Inter-Collegiate Cricket and Football Tournament 2016-17

12th KVAFSU Inter-Collegiate Cricket and Football Tournament-2016 was organized by Veterinary College, Bidar during 22nd-24th September, 2016. All the constituent colleges *viz,* Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru, Dairy Sciences College, Bengaluru / Gulbarga and College of Fisheries, Mangaluru were participated in the event. The Inter-Collegiate Sports and Games Meet-2016 was inaugurated by Dr. R.V. Prasad, Hon`ble Vice-Chancellor, KVAFSU, Bidar. Smt. Lumbini Gowtham, Hon`ble Board Members of Management, KVAFSU, Bidar; Dr. S.M. Usturge, Director of Research, KVAFSU, Bidar; Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar; Mr. Mllikarjun Ligade, Comptroller, KVAFSU, Bidar; Mr. M.K. Sathish, Estate Officer, KVAFSU, Bidar; Dr. M.M Appanawar, Controller of Examination, KVAFSU, Bidar; Dr. U.S. Jadhav, Librarian, KVAFSU, Bidar had participated in the inaugural function. Dr. Yeshwant Kumar, Director of Student Welfare, KVAFSU, Bidar was the Chief Guest and Dr. B.V. Shivaprakash, Dean, Veterinary College, Bidar presided over the function.

The winners and Runners of the Inte-Collegiate Cricket and Football tournament areas follows

1. **Football Men -** **Winner -** Dairy Science College, Bengaluru

Runner - College of Fisheries, Mangaluru

2. **Cricket** **(The matches were abandoned due to Rains)**

The Valedictory function was organized on 24 th September, 2016. Dr. R.V. Prasad, Hon`ble Vice-Chancellor, KVAFSU, Bidar. Dr. Yeshwant Kumar, Director of Student Welfare and Dr. Shivakumar, Assistant Professor, Dept of Physical Education, Veterinary College, Bidar were present on the occasion. Dr. B.V. Shivaprakash, Dean, Veterinary College Bidar presided over the function.

12th Inter Collegiate Youth Festival- Kala Sambrama -2016

12th KVAFSU Inter-Collegiate Youth Festival-_Kala Sambrama-2016 was organized by Veterinary College, Bengaluru at Kannada Sabangana during 14th-16th Oct., 2016. All the constituent Colleges *viz,* Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru, Dairy Sciences College, Bengaluru / Kalabaragi and College of Fisheries, Mangaluru had participated in the event. Dr. R.V. Prasad, Hon`ble Vice-Chancellor, KVAFSU, Bidar; Sri. Mukyamantri Chandru, Filmstar; Sri. K.C. Shankare Gowda, Smt Lumbini Gowtham and Sri. Ritesh Salian, Hon`ble Members of Board of Management, KVAFSU, Bidar; Sri. Sanjay Jaiswal, General Manager, Cargil Petcare had participated as Chief Guests. Dr. Yeshwant Kumar, Director of Student Welfare and Dr. H.A. Upendra were the Organizing Secretary and Dr. S. Yathiraj, Dean, Veterinary College, Bengaluru presided over the function.

Sri. Mukyamantri Chandru, Filmstar and Artist, Kannada Film Industry and Dr. R.V. Prasad Hon'ble Vice-Chancellor, KVAFSU, Bidar; Sri. K.C. Shankare Gowda, Smt Lumbini Gowtham and Sri. Ritesh Salian, Hon`ble Members of Board of Management, KVAFSU, Bidar jointly inaugurated the mega event.

OVERALL CHAMPIONSHIP IN ATHLETICS

Winners: Veterinary College, Bengaluru
Runners: Dairy Science College, Bengluru

The Valedictory function was organized on 16.10.2016, Dr. K.Chandrapal Singh, Registrar, KVAFSU, Bidar; Dr. Shivaprakash, S.M., Director of Extension; Dr. Narasimha Murthy, Dean, Dairy Science College, Bengaluru; Dr. B.V Shivaprakash, Dean, Veterinary College, Bidar; Dr. H. Manjunath, OSD, Dairy Science College, Kalaburagi and Dr. Yeshwant Kumar, Director of Student Welfare were present over the function.

12th KVAFSU Inter-Collegiate Athletics and Games Meet 2016

12th KVAFSU Inter-Collegiate Athletics and Games Meet-2016 was organized by Veterinary College, Shivamogga during 2nd-5th November, 2016. All the constituent colleges *viz,* Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru, Dairy Sciences College, Bengaluru / Kalabargi and College of Fisheries, Mangaluru were participated in the event. The Inter-Collegiate Athletics and Games Meet-2016 was inaugurated by Dr. R.V. Prasad, Hon`ble Vice-Chancellor, KVAFSU, Bidar; Sri. K.C. Shankare Gowda, Dr. S.G. Konapur and Sri. Ritesh Salian , Hon`ble Members of Board of Management, KVAFSU, Bidar; Sri. Ramesh, DYSS Officer, Shivamogga were participated in the inaugural function. Dr. Yeshwant Kumar, Director of Student Welfare was the Chief Guest and Dr. K.C. Veeranna, Dean, Veterinary College , Shivamogga presided over the function.

OVERALL CHAMPIONSHIP IN ATHLETICS

Winners: College of Fisheries, Mangaluru
Runners: Veterinary College, Hassan

OVERALL CHAMPIONSHIP IN TEAM GAMES

Winners: College of Fisheries, Mangaluru
Runners: Veterinary College, Bidar

The Valedictory function was organized on 5th November, 2016. Dr. C. Vasudevappa, Hon`ble Vice-Chancellor, UAHS, Shivamogga; Smt. Lubini Gowthm and Sri. Iresh, B. Anchatageri Hon`ble Members of Board of Management, KVAFSU, Bidar; Sri. Shashi, K.S., Treasurer, Karnataka Volleyball Association, Bengaluru; Prof. K. Ganesh Udupa, Director, IWVR, Kodagu and Dr. Yeshwant Kumar, Director of Student Welfare, KVAFSU, Bidar were participated in the Valedictory function as Chief Guests and Dr. K.C. Veeranna, Dean, Veterinary College , Shivamogga presided over the function.

Ist KVAFSU Inter-Collegiate Staff sports Meet 2016

Ist KVAFSU Inter-Collegiate Staff Sports Meet-2016 was organized by the Directorate of Students Welfare, KVAFSU, Bidar at **Veterinary College, Hebbal, Bengaluru** during 29th-30th November, 2016. All constituent colleges' staff *viz,* Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru, Dairy Sciences College Bengaluru/Kalabargi, and College of Fisheries Mangaluru and Animal Husbandry Polytechnic colleges Shiggaon and Konehalli were participated in the events. The Inter-Collegiate Staff Sports Meet-2016 was inaugurated by Dr. R.V. Prasad, Hon`ble Vice-Chancellor, KVAFSU, Bidar. Dr. H. Shivanand Murthy, Registrar, KVAFSU, Bidar; Sri. K.S. Ashok Kumar, Hon`ble Member of Board of Management, KVAFSU, Bidar; Sri. Jayaprakash, International ICC Cricket Umpire; Smt. Shilpa Prashanth, National Athlete; Dr. Narasimha Murthy, Dean, Dairy Science College, Bengaluru were participated as Chief Guests. Dr. Yeshwant Kumar, Director of Student Welfare and Dr. S. Yathiraj, Dean, Veterinary Coll ege Bengaluru presided over the function.

The Winners and Runners of the Inter-Collegiate Staff Sports Meet are as follows;

#	*Name of Event*	*Secured Place*	*College*
1	Cricket (Men)	Winner	Veterinary College, Hassan
		Runner	Veterinary College, Bengaluru
2	Volleyball (Men)	Winner	Veterinary College, Hassan
		Runner	College of Fisheries, Mangaluru
3	Table Tennis Doubles (Men)	Winner	Veterinary College, Hassan
		Runner	College of Fisheries, Mangaluru
4	Table Tennis Singles (Women)	Winner	Dairy Science College, Kalaburagi
		Runner	Veterinary College, Bengaluru
5	Carrom Doubles (Men)	Winner	Veterinary College, Shivamogga
		Runner	College of Fisheries, Mangaluru
6	Table Tennis Singles (Women)	Winner	Veterinary College, Bengaluru
		Runner	Dairy Science College, Bengaluru
7	Table Tennis doubles (Women)	Winner	Veterinary College, Bengaluru
		Runner	Veterinary College, Hassan
8	Chess	Winner	Veterinary College, Bengaluru

The Valedictory function was organized on 30th November, 2016, Prof. Aralu Mallige Parthasarathi, Kannada Vidwan; Dr. Byregowda, S.M., Director, IAH&VB, Bengaluru; Dr. Chandrashekar Murthy, Professor, Veterinary College, Bengaluru and Dr. Narasimha Murthy, Dean, Dairy Science College, Bengaluru were participated as Chief Guests. Dr. Yeshwant Kumar, Director of Student Welfare, KVAFSU, Bidar and Dr. S. Yathiraj, Dean, Veterinary College, Bengaluru presided over the function.

15th All India Inter Agri Unifest-2017

The KVAFSU Team participated in All India Inter Agri Unifest-2016 during 22nd-25th February, 2017 at Rajasthan University of Veterinary and Animal Science, Bikaner, Rajasthan.

The winners and runners of the inter-University Youth Festival are as follows

#	Name of Event	Secured Place
1	1. One act Play 2. Poster Making 3. Mono Acting	First
2	1. Elocution	4th Place

15th All India Inter Agri University Sports and Games Meet-2017

The KVAFSU Team participated on All India Inter Agri University Sports and Games Meet-2017 during 25th-29th March, 2017 at Chowdary Charan Singh, Hisar Agriculture Univesaity, Haryana**.** A total members of 43 students (boys & girls) were participated in the event.

1. Miss. Jayashri, R.S. has won bronze medal in Javelin Throw and 4th position in Discuss throw.
2. Mr. Prajwal, R. was attained 4th position in Shot-put and Discus Throw.
3. Mr. Vishwanatha, D.C. attained 6th position in 1500 Mtrs. and 5th position in 5000 Mtrs.
4. Miss. Bhumika Kesanur attained 4th position in Triple Jump.

Our Students shown excellent performance in Table Tennis-Men, Athletics Men & Women, Kabaddi Women Basketball- Men and Women, Volley ball –Men and other games.

1. Table Tennis Men team won silver Medal.
2. Basketball Men & Women team lost in quarter finals.
3. Volley ball Men team lost in quarter finals.
4. Kabbaddi Women team lost in semi finals.
5. Badminton men team lost in quarter finals.
6. Athletics Women.

#	*Date*	*Activity*
1	22nd-24th September, 2016	12th KVAFSU, Inter Collegiate Cricket and Foot Ball Tournament Organized by Veterinary College, Bidar-2016 1. Foot Ball participation 2. Cricket Matches were abandoned due to Rain
2	2nd-5th November, 2016	12th KVAFSU, Inter Collegiate Athletics and Games Meet Organized by Veterinary College, Shivamogga-2016 I- Games 1. Volley Ball Women- Winners 2. Chess- Winner 3. Kho-kho- Runners up 4. Shuttle Badminton- Runners up 5. Basket Ball- Runners up II- Athletics 1. Shot-put Women- Silver Medal(Azifa) **Over All Championship for Games Runners up**
3	25th-29th March, 2017	17th All India Inter Agricultural University Sports and Games Meet-2016 Organized by CCSU-Hissar, Haryana. The following students participated in various games. 1. Vidhya Varsha S J .- Volley Ball 2. Manjulla R Hadimani - Volley Ball 3. Soumya Hiremani - Volley Ball 4. Priyanka B.D - Kabaddi 5. Ullas Gowda K S - Basket Ball 6. Nithin Reddy P K - Basket Ball 7. Akash Hooda - Basket Ball 8. Madhav Ajjodi - Shuttle Badminton.

Sports Activities-2016-17

1	29th-30th November, 2016	1st KVAFSU, Inter Collegiate Staff Sports Meet-2016 Organized by Veterinary College, Hebbal, Bengaluru-2016 Veterinary College, Bidar Staff teams participated.

Youth Festival Activities -2016-17

#	Date	Activity
1	14th-16th October, 2016	12th KVAFSU, Inter Collegiate Youth Festival (Kala Sambrama-2016-17) Organized by Veterinary College, Hebbal, Bengaluru-2016. The following students participated in various Events. 1. Sradha Nair – Light Vocal- IInd Prize 2. Sradha Nair 3. Prashant Raju Gujjalkar 4. Rita Grace Sacharia 5. Vanishree 6. Mustafa 7. Ronit – Patriotic Song –IIIrd Prize 8. Jayanth Hanumanula - English Extempore-Ist Prize 9. Gurudev Karajagi 10. Deepak Joshi 11. Ronit 12. Alamani Sachin 13. Sradha Nair 14. Vijaya Mahanthesh S K – Mime- IIIrd Prize 15. Gurudev Karajagi 16. Deepak Joshi 17. Ronit 18. Rita Grace Sacharia 19. Basavaraj Vadari 20. Vijaya Mahanthesh S K – Skit- IIIrd Prize 21. Gurudev Karajagi - Cartooning- Ist Prize 22. Nischal N Benkipur 23. Suraj S Gourav – Quiz- IIIrd Prize
2	22nd to 25th Feb., 2017	17th All India Inter Agricultural University Youth Festival -2017 Organized by Rajasthan University of Veterinary and Animal Sciences, Bikaner-2017. The following students participated in various Events. 1. Gurudev Karajagi 2. Sradha Nair 3. Vanishree 4. Basavaraj Vadari Vanishree secured Gold Medal in One Act Play

8) National Service Scheme (NSS)

VETERINARY COLLEGE, BENGALURU

Dr. S. Isloor, Associate Professor - As NSS Programme Officer, involved in organizing National Service Scheme (NSS) special rural camp for NSS volunteers (IInd BVSc&AH students) of Veterinary College, Bengaluru from 22nd to 28th March, 2017 at Kilara village, Mandya District.

VETERINARY COLLEGE, BIDAR

1 Regular NSS work done for 42 weeks at the rate of 2.5 hours per week with 67 volunteers.
2 7 days special rural camp at Ashtoor village from 27th February to 5th March, 2017.
3 Organized 20 lectures for volunteers.
4 Additional Shramadana of 120 hours for campus cleaning.
5 Blood Donation camp
6 Animal health camp
7 Medical health camp
8 Tree plantation
9 Census
10 Literacy program for school children
11 Rally and awareness camp
12 Yoga camp
13 Debit card usage and its benefits to villagers
14 Provision of snacks to volunteers during NSS shramadana

Details of Shramadana:

#	Date	Place	Nature of Work
1	Aug., 2016	Veterinary College, Bidar	Vanamahotsava
2	Sep., 2016	Veterinary College, Bidar	Teaching complex area cleaning
3	Oct., 2016	Veterinary College, Bidar	Cleaning of drains
4	Nov., 2016	Veterinary College, Bidar	Hostel surrounding and inside girls hostel
5	Dec., 2016	Veterinary College, Bidar	Surrounding post mortem area
6	Jan., 2017	Veterinary College, Bidar	Fodder tree planatation
7	Feb., 2017	Ashtoor	Rural special camp 7days residential
8	Mar., 2017	Veterinary College, Bidar	Cleaning around University building
9	April, 2017	Veterinary College, Bidar	Cleaning of campus roads and tree lopping

VETERINARY COLLEGE, SHIVAMOGGA

#	Activities	Numbers	
1	Enrollment	125	
2	Special camping	63	
3	Tree plantation/rejuvention	560	
4	Blood donation	45	
5	Demonstrations	06-Fodder enrichment, value addition to milk and cereals Vaccination, general helath care and eye care	
6	Awareness programmes	10	
7	Adopted village	01	
8	Celebration of international days/weeks	10	
9	Monetization of durable assets	Exact amount	No. of beneficiaries
		Rs. 50,000	120

VETERINARY COLLEGE, HASSAN

The NSS unit of Veterinary College, Hassan is consisting of 125 volunteers with 88 boys and 37 girls. The following regular activities were carried out in the year 2016-17.

1	On 21/06/2016 Yoga Day was organized for the students and staff of the college. 60 members got benefit of the programme.
2	On 4-07-2015 *Van Mahotsav* Day was organized in Veterinary College, Hassan. Six saplings were planted in the campus.
3	On 02.08.206 Eye Check up camp was organized in association with Keshava Eye Hospital, Hassan. 100 students and staff participated in the camp.
4	On August 24, 2016, Hormonal Community week was celebrated. Col. Natesh, Chief Guest spoke on the topic 'Community harmony and its impact on Indian development'.
5	NSS day was celebrated on September 24, 2016. Dr. Vasanth, M.S., Dean, Veterinary College, Hassan spoke on the occasion and underlined the role of youth in carving the progress of the nation. He also expounds the importance the service of veterinarians for the betterment of society and farming community.
6	On 26/09/2016, a lecture was delivered by Dr. Girish, B.C., Assistant Professor, Dept. of Veterinary Pathology, Veterinary College, Hassan, on effects of plastic and its eradication.
7	Personality development training was organized for NSS Volunteers on January 29th 2017, by the NSS unit. Mr. Belliappa, Mysuru acted as the resource person and about 100 students participated in the programme.
8	AIDS awareness program was organized by NSS unit along with District AIDS Prevention department on 09.02.2017. Dr. Ardhya and Mr Ravi Kumar addressed students and staff.
9	Along with these activities NSS Unit, Veterinary College, Hassan has made a sincere effort to 1) Clean the campus premises 2) Watering of plants and flower pots 3) Removal of plastic to make campus plastic free 4) Preparation of sports grounds. 5) Swatch Bharath Abhiyaan 6) Watering plants in summer 7) Making campaign to make campus tobacco free

NSS Annual Special Camp: 2016-17
NSS Annual special camp was organized at Kabbati village, Hassan Taluk, from 07.03.2017 to 13.03.2017 for the year 2016-17. The following activities were carried out focusing on village people, farmers and student. A. Free dental check up B. Free human health check-up and treatment C. Ayush and Homeopathy health camp D. Animal health and treatment camp E. Clean milk production F. Women Empowerment G. Fodder management, etc. H. Calf rally I. Calf de-worming J. Desi cattle breeds competition **Outcomes of NSS Special Camp** 1. Student of our camp understood the community in which they work 2. Understood themselves in relation to their community 3. Identify the needs and problems of the community. 4. Utilized their knowledge in finding practical solutions to individual and community problems. 5. Developed among themselves a sense of social and civic responsibility 6. Gained skills in mobilizing community participation 7. Acquired leadership qualities and formed democratic attitudes 8. Developed capacity to meet emergencies and natural disasters and 9. Practiced national integration and social harmony
N.S.S. Unit of Veterinary College, Hassan was awarded National Young Leader Programme Award during 2015-16 instituted by Ministry of Youth Affairs and Sports, Government of India

DAIRY SCIENCE COLLEGE, BENGALURU

1	01-06-2016	Lecture cum demonstration on processing of milk to students of UAS Campus School, Bengaluru on the occasion of world milk day	120	All the Staff of the Department
2	05-06-2016	Plantation programme as part of World Environment day	100	Arunkumar. NSS Programme Officer -DT and college staff
3	19th-21st June, 2016	Yoga for the staff of the College to mark International day of Yoga	200	Arunkumar NSS Programme Officer DT and Dairy Science College

DAIRY SCIENCE COLLEGE, KALABURAGI

NSS camp was organized by programme Coordinator Mr. Rajanna, M., Associate Professor and Head, Dept. of Dairy Chemistry from 21.01.2017 to 30.01.2017 at Chikkanagaon village of Basavakalyan Taluk, Dist: Bidar.

COLLEGE OF FISHERIES, MANGALURU

NSS/ Village stay camp

The NSS/Village stay camp for *IV B.F.Sc. students* was organized from 21st to 27th May, 2016 at Brahmavara, Udupi dist. It was inaugurated by Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar. Sri Ganapathi Bhat, Joint Director, Department of Fisheries , Sri Parshwanath, Sr. Assistant Director of Fisheries, Sri Kumarswamy B.V., Assistant Director of Fisheries (G-I), Department of Fisheries, Government of Karnataka, Dr. B. Dhananjaya, Programme Coordinator (KVK), Sri Shridar V., Assistant Area Manager were the guests. The camp was organized by the NSS Wing of the college in collaboration with Zonal Agricultural and Horticultural Research Stations, Krishi Vigyan Kendra and Diploma (Agri) College, Brhamavara. Dr. A.T. Ramachandra Naik, NSS Programme Officer was the coordinator of the camp.

During the camp period, the NSS volunteers were involved in shramadhan by cleaning the premises of research station, college, agricultural farms, playground, street, play ground *etc.* Talks were arranged on soil characteristics and its suitability for agriculture, compost making, activities of research station and KVK, visit and study of fish cage culture systems, freshwater fish farms, goat farms, cattle farms, *etc.* NSS volunteers were also exposed to various associations in the locality to understand their nature of work and facilities extended to the public. SHGs were also interacted and shared their day-to-day activities with the NSS volunteers.

A one day Farmer-Scientist-Students (FSS) interaction meet was held during the camp. During this meet, the farmers were exposed to preparation of value added products. FSS meet was also focused to address on success stories of the farmers and students learning including scientists interventions. The camp was ended with valedictory function on 17.05.2016.

NSS/ Village stay camp from 21st to 27th November, 2016

The NSS annual camp coinciding with village stay (as course curriculum) for *IV B.F.Sc. students* involving local youths was conducted from 21st to 27th November, 2016 at Daregudde village near Moodabidire, Dakshina Kannada district. The camp was inaugurated on 21.11.2016 by Sri Abhayachandra Jain, former Minister and Hon'ble MLA, Moodabidire and Mulki constituencies. Sri Rajavarma Bailangadi, President of Krishi Vichara Vinimaya Kendra, Moodabidire, Sri Bhaskar Rao, President, Shaalabhivruddi Samiti, Govt. High School, Daregudde, Sri Subhashchandra Chouta, Vice-President of Krishi Vichara Vinimaya Kendra, Moodabidire and Dr. Shivakumar M., Programme Coordinator of Krishi Vigyan Kendra, Mangaluru were guests. Dr. M.N. Venugopal, Dean (Fisheries) was the president of the function. Dr. A.T. Ramachandra Naik, NSS Programme Officer was the coordinator of the camp.

During the camp period, the NSS volunteers were involved in shramadhan by cleaning the premises of schools, temple, playground, street *etc.* Talks were arranged on soil characteristics and integrated farming, compost making, kitchen garden preparation, visit and study of agricultural

activities including horticultural crops, fish cultivation, livestock rearing, cattle farming *etc.* NSS volunteers were also exposed to various associations in the locality to understand their nature of work and facilities extended to the public. SHGs were also interacted and shared their day-to-day activities with the volunteers.

A one day Farmer-Scientist-Students interaction meet was held during the camp. The activities and the problems of the farmers were listened by the Scientists and Students. The exposure of students to this meet was a great experience and the scientists gave the suggestion to overcome the problems faced by the farmers on crop cultivation and their business activities.

The valedictory function was held on 27.11.2016. Dr. S.M. Shivaprakash, Director of Extension, KVAFSU was the chief guest and presided by Dr. M.N. Venugopal, Dean (Fisheries). The NSS Programme Officer presented the report while students shared their experiences of the 7 days camp.

NSS regular activity on 2nd March, 2016

A campus cleaning programme was organized on 2nd March, 2016. Dr. S.M. Shivaprakash, Director of Extension, KVAFSU was the Chief Guest for the function. Dr. K.M. Shankar, Dean, College of Fisheries, Mangaluru presided over the function, Dr. A.T. Ramachandra Naik, NSS Programme Officer coordinated the campus cleaning programme involving all the UG and PG students and both teaching and non-teaching staff of the college. There was good response from all the students and staff of the college in beautification of the campus. During the cleaning programme, the fallen tree leaves were picked up, swept and dumped in a pit made for the purpose. Further, the broken tile pieces, concrete blocks, bricks, plastic materials, bushy plants, erratic growth of unwanted plants, *etc* were picked up and made a big heap in one of the corners of the campus.

NSS Yojanotsava

Dr. A.T. Ramachandra Naik, NSS Programme Officer lead the KVAFSU team and University Team Manager to represent in the state level cultural programme organized by the NSS unit of Mangaluru University at Sri Dharmasthala Manjunatheswara College, Ujire. Altogether, 16 students from constituents college of KVAFSU participated *viz.*, 2 students from Veterinary College, Bengaluru, 2 from Dairy Science College, Bengaluru, 3 from Veterinary College, Shivamogga, 2 from Veterinary College, Hassan and 7 from College of Fisheries, Mangaluru. In addition to the NSS activities the university team took part in various cultural competitions. Our university won overall runners-up in the completion and first place in exhibition where our university NSS activities action photos were displayed.

9) Other co-curricular activities

VETERINARY COLLEGE, BENGALURU

#	*Date*	*Activity*
1	14.04.2016	Dr. D. Rathnamma, Professor & Head, monitored the FMD-CP at Chikkaballapur under FMD control programme as per the Commissioner, AH&VS
2	17.05.2016	Dr. B.M.Veeregowda, Associate Professor, deputed to investigate the problem of Mastitis in a Dairy Farm Dharwar
3	12.06.2016	Dr. Shrikrishna Isloor, Associate Professor , deputed to give a lecture and demonstration of DFA and Lateral Flow Assay on rabies at Shivamogga Veterinary College
4	13.07.2016	Dr. D.Rathnamma, Professor & Head, deputed to participate in the awareness programme on Zoonosis at Yelahanka, Bengaluru
5	9^{th}-10^{th} July, 2016	Dr. D.Rathnamma, Professor & Head, depute to the 18^{th} APCRICON-2016 at NIMHANS, Bengaluru
6	15.09.2016	Dr. Shrikrishna Isloor, Associate Professor , deputed to visit Rakshith Farm, Jangalahalli, Kolar to supervise the implementation of Brucellosis control strategies
7	01.10.2016	Dr. Shrikrishna Isloor, Associate Professor, Resource person to give a talk on 'Burden of Rabies: Global & India & Rabies PEP' at District Surgeon Office, Haveri.
8	25.10.2016	Dr. Shrikrishna Isloor, Associate Professor, delivered lecture on 'Animal Health and Disease control Programme' at BAMUL.
9	8^{th}-10^{th} Dec., 2016	Dr. D.Rathnamma, Professor & Head, was Co-Chairperson in Technical Session in 'VIROCON 2016 International Conference on Global Perspectives in Virus Diseases Management' organized at ICAR-IIHR, Hesarghatta
10	8^{th}-10^{th} Dec., 2016	Dr. Shrikrishna Isloor, Associate Professor, was Scientific Co-ordinator in 'VIROCON 2016 International Conference on Global Perspectives in Virus Diseases Management' organized at ICAR-IIHR, Hesarghatta
11	09.01.2017	Dr. B.M.Veeregowda, Associate Professor, attended meeting in the chamber of Director of AH&VS to discuss about outbreak of Brucellosis in Buffaloe breeding farm Theguru, Dharawar
12	22-24 February, 2017	International Agriculture Fair-2017, GKVK, Bengaluru - plastinated organs models display
13	6^{th}-9^{th} March, 2017	Dr. Shrikrishna Isloor, Associate Professor, visited the virology department at the APHA-Weybridge as a part of OIE twinning project
14	2^{nd}-7^{th} March, 2017	Dr.D.Rathnamma & Dr. S. Isloor involved in conducting Fine arts competitions for College Day-2017 programme

VETERINARY COLLEGE, BIDAR

1. Dr. B. R. Ambedkar Jayanthi was celebrated on 14-04-2016 at Veterinary College, Bidar. Shri Shivasharanappa Huggipatil, Professor, Dept of Chemistry, Akkamahadevi Women's College, Bidar and Shri. Sharanappa Mithare, President, Jilla Basava Kendra, Bidar participated in the programme as guest speakers. The Hon'ble Vice Chancellor, Board Members, University officers, staff and students actively participated in this programme.
2. World Veterinary Day was celebrated on 30th April 2016. On this occasion free anti-rabies vaccination camp was organized in which about 50 dogs were vaccinated. A technical seminar on "Zoonotic Diseases" was also held on this occasion in which Dr. Pallavi Kesari, Professor and Head, Dept. of Community Medicine, Bidar Institute of Medical Science was the resource person.
3. Sri Basaweshwar Jayanthi was celebrated on 09.05.2016 at Veterinary College, Bidar. Poojya Sharana Siddaram inaugurated 883rd Jayanti along with other guests. Shri Channabasava Hede, Principal Morarji Schooh, Kamathana was the special invitee and he spoke on the principles of Basaveshwar in detail. University officers, staff and students actively participated in this programme. Dr. B.V.Shivaprakash, Dean of Veterinary College, Bidar presided over the function.
4. World Yoga Day was celebrated on 21.06.2016. Sri Narayana Swamy Guruji, President, Shri Satya Sai Saraswati Education Trust, Kittur delivered lecture on importance of yoga and also trained the staff and students of the college with some basic yoga *asanas*. Dr. C Renukaprasad, Hon'ble Vice Chancellor graced the occasion along with other university officials.
5. As part of Dr. R.D. Nanjiah Centenary celebration, series of lectures were conducted at Veterinary College, Bidar. Eminent Scientists *viz.,* Dr. Srinivas Kaveri from French Institute of Health and Medical Research, Paris, Dr. Chandrashekhar Pasare from University of Texas, delivered the lectures for staff and students. Dr. C.R.Chandrashekhar, eminent psychiatrist and counselor from National Institute of Mental Health and Neurosciences, Bengaluru delivered a lecture on "Stress Management".
6. Students of Veterinary College, Bidar participated in the Inter-collegiate Sports and Cultural events competition organized by S.B.Patil Dental College and Hospital, Bidar during 29.08.2016 to 03.09. 2016 and they bagged first prize in group song.
7. Bhakta Shreshta Shri Kanakadas Jayanti was celebrated on 17-11-2016 at Veterinary College, Bidar. Dr. B.V.Shivaprakash, Dean, Veterinary College, Bidar spoke on history of Shri. Kanakadas and relevance of his preaches to the society in present context.
8. University level debate competition sponsored by Karnataka State Co-operative Federation Limited Bengaluru was held on 07.01.2017 at Veterinary College, Bidar. Among UG students Mr. Jayanth H (VETICO, Bidar), Mr. Swaroop R (VETICO, Hassan), and among PG students Ms. K. Supriya (VETICO, Shivamogga), Mr. Shaik Thahur Ahamed (College of Fisheries, Mangaluru) were selected to participate the university in State level competition.
9. Mr. Jayanth H and Ms. Kaveri Jambagi won the 10th Golden Age Elocution Competition-2017 in English and Kannada respectively which was organized by Sri Sathya Sai Seva Samithi, Bidar on 22.01.2017

Details of training program conducted:

#	Place and Date	Title	Participants no.	Organizer
1	Ashtoor, Bidar 27.02.2017	Awareness rally on livestock production	100	Veterinary College Bidar
2	Ashtoor, Bidar 28.02.2017	Importance of Animal Husbandry	200	Veterinary College Bidar
3	Ashtoor, Bidar 28.02.2017	Urea treatment of straw to augment animal productivity	250	Veterinary College, Bidar
4	Ashtoor, Bidar 01.03.2017	Fodder tree plantation 200 trees	200	Veterinary College, Bidar
5	Ashtoor, Bidar 01.03.2017	Importance of sanitation and hygiene in clean milk production	250	Veterinary College, Bidar
6	Ashtoor, Bidar 02.03.2017	Importance of feeding in improving livestock productivity and integrate farming	300	Veterinary College, Bidar
7	Ashtoor, Bidar 03.03.2017	Medical health camp, blood donation and talk on sanitation and hygiene for better health	500	Veterinary College, Bidar
8	Ashtoor, Bidar 04.03.2017	Swatch Bharat Abhiyan	200	Veterinary College, Bidar
9	Ashtoor, Bidar 05.03.2017	Livestock Census and home visit to explain better management practices to increase livestock production	50	Veterinary College, Bidar

VETERINARY COLLEGE, HASSAN

#	Activity
1	'Fresher's day – Kalarava' was organized on 24th November, 2016 to welcome the Fresher's of 2016-17. The program was inaugurated by Dr. B. C. Ravikumar, Director, Hassan Institute of Medical Sciences, Hassan and the program was presided over by Dr. M.S. Vasanth, Dean, Veterinary College Hassan. Freshers were welcomed by the II yr students with a brief introduction. The program was co-ordinated by the class representatives Mr. Panduranga and Ms Manasa of II B.V.Sc & AH along with their team. The program ended by the cultural performance of the students of Veterinary College, Hassan.
2	Mr. Swaroop, R., of I st B.V.Sc & AH represented KVAFSU, for the state level debate competition conducted by the Co-operative Department at Kuvempu University, Shivamogga-577452 on 03-02-2017.
3	Three research concepts on Climate smart grazing management by micromanipulation system, Multiple healthy uses of semen and Insects as a alternative protein source concepts were presented by the team of students, *viz.,* Saniya Tabassum, Roopa, R., Nuthan, H.M. Gowda, Shanthamurthy, Manjunath, N.S. Suhas and H.G. Panduranga in the form of posters at the Inter-University south zone student research convention "Anveshana" held at Tumkur University on 14th to 15th Feb., 2017.

DAIRY SCIENCE COLLEGE, BENGALURU

#	*Date*	*Activity*
1	14.05.2016	Dairy Science College, Bengaluru celebrated its Annual Day 2015-16. The Chief Guest was Shri. P.Nagaraju, Chairman, KMF, Bengaluru while Guest of honour was Shri. Rajendra Prasad Reddy, Manager (Product Development) of Britannia Dairy Pvt. Ltd., Bengaluru. A cultural programme which included Bharatanatyam, skit, group dance, solo singing, group singing and poojakunita marked the end of the programme
2	01.06.2016	The College celebrated World Milk Day by way of creating awareness about the nutritional significance of milk and milk products
3	05.06.2016	Plantation programme was organized as part of World Environment day
4	20th-21 June, 2016	Yoga sessions were on 20th and International Day of Yoga was celebrated on 21st in which staff and students participated
5	10.08.2016	Training Programme on "Money Minded" organized by the Department of Dairy Business Management for the benefit of staff and students conducted by ANZ Bank Ltd., Bengaluru
6	23.08.2016	Mass National Anthem singing at 11.00 AM. Also organized sports and cultural competitions for students and distributed prizes to the winners
7	29.08.2016	Orientation Programme was conducted for newly admitted I Year B. Tech. (D. Tech.) students
8	21.09.2016	Inauguration of Entrance Arch of Dairy Science College, Hebbal, Bengaluru. Entrance Arch was inaugurated by Sri. A. Manju, Hon'ble Minister of AH, GoK. Sri. Krishna Byregowda, Hon'ble Minister of Agriculture; MLA, Hebbal graced the occasion. Hon'ble Members, Board of Management, KVARSU were also present
9	24.09.2016	The College organized a Guest Lecture by Bhakti Vedanta on "Life and its Mysteries" for the benefit of students and staff of Dairy Science College, Bengaluru
10	05.10.2016	II B. Tech. (D. Tech.) students organized Freshers' Day to welcome newly admitted I B. Tech. (D. Tech.) students
11	17.10.2016	World Food Day was celebrated in collaboration with AFSTI (Bengaluru Chapter) and retired teachers of Dairy Science College were felicitated
12	11.11.2016	The College organized All India Annual Management Fest 'EscaRes 2016' on 11th& 12th November, 2016 which saw Shri. K.S. Ashok Kumar, Head, MAA Integrators & President, Karnataka Poultry Farmers & Breeders Association as Chief Guest for the Inaugural function The Valedictory function of 'EscaRes 2016' felicitated Dr. K. Atmaram, Former Director of Instruction (Dairy & Veterinary)
13	26.11.2016	National Milk Day was celebrated in honour of Dr. Verghese Kurien, Father of White Revolution in India, being his 96th Birthday, along with staff and students of the College
14	20th Nov. to 10th Dec. 2016	Final year B. Tech. (D. Tech.) students undertook the North India Educational Tour from 20th November to 10th December

15	23rd Jan. to 6th Feb. 2017	As part of curricular activities, the pre-final B.Tech. (D.Tech.) students undertook South India Educational Tour from 23rd January to 6th February
16	20th Feb. to 1st Mar. 2017	Final year students have undergone a 10 days "Village Stay" programme as part of Rural Dairy Work Experience Programme which all the final years always look forward to. This vibrant programme was held from 20th February to 1st March, 2017 at Rajaghatta Village
17	20th-26th Feb., 2017	Special NSS Camp involving the III & IV year B.Tech. students was held from 20th to 26th February, 2017 at Rajaghatta Village

DAIRY SCIENCE COLLEGE, KALABURAGI

#	Date	Activity
1	21.01.2017 to 30.01.2017	RDWE Camp organized by Dr. Sharanagouda B, Associate Professor and Head Dairy Technology Dept. from 21.01.2017 to 30.01.2017 at Chikkanagaon village of Basavakalyan Taluk Dist. Bidar

COLLEGE OF FISHERIES, MANGALURU

#	Date	Activity
1	12.04.2016	Celebrated College Day
2	23.04.2016	Celebrated Hostel Day
3	19.05.2016	Conducted Best Fisheries Graduates of India Examination for final year students
4	18.05.2016	Farewell to IVth B.F.Sc. students organized jointly by College of Fisheries, Mangaluru and College of Fisheries Alumni Association
5	20.05.2016	Conducted CET-Agricultural Practical Test for the candidates of D.K, Udupi and Coorg district
6	15.06.2016 to 21.06.2016	Organized a free yoga camp for the staff and students of the College
7	15.06.2016	Celebrated Independence Day in the College
8	22.09.2016	Celebrated Teachers Day in the College
9	06.10.2016	Arranged a Fresher's Day programme to welcome the Ist B.F.Sc. students of Academic year 2016-17
10	25.11.2016	Celebrated a World Fisheries Day-2016 by organizing one day awareness workshop on "Responsible Fisheries"
11	24.11.2016	Celebrated Karnataka Rajyothsava Day in the College
12	26.01.2017	Celebrated Republic Day in the College
13	30.03.2017	Celebrated International Women's Day in the College

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU

#	*Date*	*Activity*
1	14.04.2016	Dr. B.R. Ambedkar Jayanti celebrated
2	30.04.2016	World Veterinary Day celebrated
3	05.06.2016	World Environmental Day celebrated
4	15.08.2016	Independence Day celebrated
5	05.09.2016	Teachers Day celebrated
6	02.10.2016	Gandhi Jayanti celebrated
7	01.11.2016	Karnataka Rajyotsava celebrated
8	23.11.2016	Freshers welcome day
9	14.11.2016	Children's' Day celebrated
10	01.12.2016	World AIDS Day celebrated
11	26.01.2017	Republic Day celebrated

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

#	*Date*	*Activity*
1	14.04.2016	Ambedkar Jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon. Students participated in elocution regarding life and achievements of Bharat Ratna Dr. B.R. Ambedkar
2	09.05.2016	Basava Jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon
3	15.10.2016	Valmiki Jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon
4	17.11.2016	Kanaka Dasa Jayanti was celebrated at Animal Husbandry Polytechnic, Shiggaon. Students recited Vachanas of various Dasas
5	15.08.2016 and 26.01.2017	Independence Day and Republic Day were celebrated at Animal Husbandry Polytechnic, Shiggaon with great fan fare. Students participated in patriotic songs singing and elocution on the Indian National Movement

II.RESEARCH

University is vested with the mandate of Teaching, Research and Extension. Various research activities in the sphere of Veterinary, Animal, Dairy and Fisheries Sciences are being undertaken at different organizations/institutions.

1) Completed Projects

a) Project Details

Dept.	*Title*	*Funding Agency*	*Budget (in lakhs)*	*Yr. of Comt.*	*Yr. of Compl*	*Principal Investigator*
VETERINARY COLLEGE, BENGALURU						
ANN	A study on use of spent maize (*Zea mays*) cob as roughage source in the ration of small ruminants	KVAFSU, Bidar	0.30	2015	2016	T.M. Prabhu
LPM	A study on the effect of fibrolytic enzymes on the *in vitro* rumen fermentation, feed intake, nutrient digestibility and lactation performance in crossbred dairy cattle	Altech-Nutrition Research Alliance	1.70	2013	2016	Y.B. Rajeshwari
LPM	*In vitro* evaluation of complete diets based on Spineless Cactus (*Opuntia ficusindica*) and Moringa (*Moringa oleifera*) for ruminant feeding	KVAFSU, Bidar	0.60	2016	2017	Y. Madhura
PSC	Evaluation of Spore forming bacterial probiotic on Growth performance, immunity and gut health in broilers	Zeus Biotech Ltd., Mysuru	1.37	2015	2016	V. Malathi
VAHEE	Study on development and effectiveness of mobile application on fodder production in Karnataka	KVAFSU, Bidar	0.50	2015	2017	K. Satyanarayan
VAN	Flash based innovative technique as an aid in teaching Veterinary Anatomy	VGST	30.00	2011	2016	K.V. Jamuna

VAN	Morphological studies on fore and hind limb bones of Sloth Bear (*Melursus ursinus*)	KVAFSU, Bidar	0.50	2015	2017	K.V. Jamuna
VBC	FIST	DST, Delhi	59.50	2015	-	V. Girish Kumar
VMC	Rabies Diagnosis and Quality Management Proficiency Tests	OIE	102.62	2016	-	Shrikrishna Isloor
VPH	Studies on prevalence of food borne Trichine-llosis in pigs and its impact on public health	KVAFSU, Bidar	-	2016	2017	G. Leena
VPP	Animal Disease Registry and Tissue Bank	ICAR	592.10	2012	2016	H.D. Narayanaswamy
TVCC	Studies on gastrointestinal parasites of Asian elephants	SCZG, Mysuru	1.00	2016	2017	A. Muralidhara
TVCC	Effect of post insemination progesterone supplementation on fertility rates of repeat breeding cross bred cows	KVAFSU, Bidar	0.30	2015	2016	B.M. Ravindranath
VMD	Study on occurrence of gastrointestinal parasites in cats	KVAFSU, Bidar	31.00	2016	2017	G.K. Chetan Kumar
VGO	Augmentation of reproductive efficiency in sheep through estrus synchronization and AI	RKVY	90.00	-	2016	A. Krishnaswamy
VSR	Studies on laparoscopic diagnosis of intra-abdominal disorders	KVAFSU, Bidar	0.50	2016	2017	V. Mahesh
VETERINARY COLLEGE, BIDAR						
VMC	Study on safety and immunogenicity of Brucella Rev-1 vaccine through subcutaneous and conjunctival routes in sheep and goats	IIL-HYD	2.13	2014	2016	Basavaraj Awati
VMC	Efficacy Testing of Goat Pox Vaccine in Goats	IIL-HYD	2.25	2014	2016	Basavaraj Awati

VPT	Safety studies of nitenpyram in rabbits	KVAFSU, Bidar	0.30	2016	2017	Vinay, P. Tikare
VPT	Efficacy evaluation of poultry feed emulsifier on performance, nutrient metabolism, serum lipid profiles and carcass traits in broiler chicken	Dabur Ayurvet	0.86	2016	2017	Vinay, P. Tikare
VPT	Efficacy evaluation of herbal growth promoters in improving growth, performance, meat quality attributes and immune response in broilers	Dabur Ayurvet	1.17	2016	2017	Vinay, P. Tikare
VPT	Pharmacological evaluation and comparative study of herbal methionine on heat stress and performance in broiler chickens	Dabur Ayurvet	1.17	2016	2017	M. Vijaykumar
VPT	Pharmacological evaluation and comparative study of polyherbal antistress compounds on heat stress and immunity profiles in broiler chickens	Dabur Ayurvet	1.17	2016	2017	M. Vijaykumar
VGO	Evolving new Kenguri strain of sheep with high prolificacy for sustainable sheep production in Northern Karnataka	KVAFSU, Bidar	-	2013	2016	M.K. Tandle
VGO	A comprehensive novel approach of synchronization of estrus in postpartum native sheep during non-breeding season	KVAFSU, Bidar	0.25	2015	2016	R.G. Bijurkar
VMD	Polymerase Chain Reaction based diagnosis of Theileriosis in cattle	KVAFSU, Bidar	0.48	2015	2017	Vivek, R. Kasaralikar

LPT	Optimizing the process for preparation of chicken pop corns	KVAFSU, Bidar	0.30	2016	2017	M. Kiran
LPM	Efficiency evaluation of some herbal products on growth and immunity parameters in Broliers	Ayurvet Ltd., Katha, Baddi, Solan	0.83	2016	2016	N.V. Jadhav
ANN	Evaluation of feeding value of Sugarcane trash as a component of the diet in Nariswar-na x Kenguri strain-1 sheep	KVAFSU, Bidar	0.80	2015	2016	Tirumalesh
AGB	Genotyping of Kenguri and NARI-Suwarna strain (Deccani X Garole) for *Fec-B* gene	KVAFSU, Bidar	0.50	2016	2017	H.M. Yathish
VETERINARY COLLEGE, SHIVAMOGGA						
VPE	Studies on antimicrobial properties of cationic molecules against drug resistant pathogens of veterinary significance	KVAFSU, Bidar	-	2016	2017	Nagappa Karabasanavar
VAN	Gross anatomy of bones of Mudhol hound dog	KVAFSU, Bidar	0.22	2014	2017	R.P. Mutturaj
ILFC	Feeding value of De-corticated Cotton Seed Meal (DCSM) in commercial layers	KVAFSU, Bidar	0.30	2016	2016	B.U. Umesh
VPT	Evaluation of pharmacodynamic interactions between meloxicam (NSAID) and flouroquinolones	KVAFSU, Bidar	0.50	2017	2017	L.V. Lokesh
VPT	Experimental studies on influence of arsenic exposure on the pharmacodynamics of meloxicam, a non-steroidal anti-inflammatory drug (NSAID) in male rats	KVAFSU, Bidar	0.50	2017	2017	Prashant-kumar Waghe

VPT	Analysis of nitrate and or nitrite in fodder crops, farm land weeds and water sources for livestock in- and around Shivamogga	KVAFSU, Bidar	0.30	2017	2017	B.H. Pavithra
TVCC	Investigation of disorders of thoraco-abdominal region based on Ultrasonography findings and ultrasound guided sample collection in cattle	KVAFSU, Bidar	0.20	2015	2016	S. Dhanalakshmi
VMD	Studies on Bacterial and Parasitic Enteritis in Small Ruminants in and around Shivamogga	KVAFSU, Bidar	0.50	2015	2016	D.S. Malatesh
VETERINARY COLLEGE, HASSAN						
ANN	A field trial on effect of supplementation of value added feed blocks on the growth of goat kids	KVAFSU, Bidar	0.30	2016	2017	H.S. Madhusudhan
ANN	Utilization of maize cob shank and sheath as a source of fodder for dairy animals	NABAR Bengaluru	9.45	2014	2016	B.N. Suresh
VPB	A study on pathogenesis of epitheliogenesis imperfecta - an inherited disorder of piglets	KVAFSU, Bidar	0.25	2016	2017	B.C. Girish
VPB	A study on prevalence of Mycotoxicosis in broilers in and around Hassan by Toxicopathological investigation	KVAFSU, Bidar	0.40	2016	2017	V.T. Shilpa

VPHE	Efficacy of Flaxseed as natural antioxidants for the development of functional food in emulsion based meat products	KVAFSU, Bidar	0.30	2016	2017	P. Ravikumar
VSR	Studies on etiological aspect and surgical management of hoof lesions in dairy cattle in and around Hassan District	KVAFSU, Bidar	0.30	2014	2016	N. Nagaraju
COLLEGE OF FISHERIES, MANGALURU						
FM	Defense genes of tiger shrimp (*Penaeus monodon*) with respect to bacteria (*Vibrio harveyi)* and white spot virus (WSSV) infection	ICAR, Govt. of India	72.10	2012	2016	M.N. Venugopal
FM	Capture and removal of ammonia from fish processing waste using Archaea	ICAR, Govt of India	94.88	2011	2016	S.K. Girisha
FEC	Community dependence on coastal ecologically sensitive areas (ESAs) in Kundapur Karnataka	NCSCM, MOEF and CC, Chennai	5.00	2015	2017	Ramachandra Bhatta
FPT	All India Coordinated Research project on Post-Harvest Technology	ICAR-CIPHET, Ludhiana, Punjab	339.30	2012	2017	C.V. Raju
FET	Development of artificial reefs in inshore waters to enhance the marine fish	DoF, GoK under RKVY	62.00	2012	2016	B. Hanumantha-ppa
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU						
Biological Production Division	Comparative genomics of ndv field isolates with vaccine strain	IAH&VB	-	2014	2016	S. Ranganatha

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU						
IWVR	Prevalence of gastro-intestinal parasitic infections in Indian Wild Boars (*Sus scrofa*) in the campus of Institute of Wildlife Veterinary Research, Doddaluvara, Kodagu District	-	-	2015	2016	K. Ganesh Udupa
IWVR	Prevalence of gastrointestinal parasites of free ranging Indian Hares (*Lepus nigricollis*) in Institute of Wildlife Veterinary Research campus, Doddaluvara of Kodagu District, Karnataka State	-	-	2015	2016	K. Ganesh Udupa
IWVR	Survey of gastrointestinal parasites in wild ruminants kept under captivity at certain zoological gardens of Karnataka	-	-	2015	2016	K. Ganesh Udupa
IWVR	Prevalence of gastrointestinal parasites of free ranging Indian Pea fowl (*Pavo cristatus*) in the campus of Institute of Wildlife Veterinary Research, Doddaluvara of Kodagu District	-	-	2015	2016	K. Ganesh Udupa

LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED						
LRIC (Deoni)	Evaluation of Prophylactic and Therapeutic Efficacy of Salcochek and Salcochek Pro against *Clostridium perfringens*-induced necrotic enteritis in chickens	M/s Ayurvet Ltd., Baddi, H.P.	1.46	2016	2016	Vivek, M. Patil
LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA						
LRIC-Nagmangala	Prevalence and Pathological studies on Paratuberculos (Johne's Disease) in Mandya Sheep	KVAFSU, Bidar	0.30	2015	2016	S.S. Manjunatha
CANINE RESEARCH AND INFORMATION CENTER (MH), TIMMAPUR, BAGALKOT						
CRIC, Timmapur	Phenotypic characterization of both male and female dogs of Mudhol hound breed	SCP-TSP	-	2015	-	Mahesh, S. Dodamani
CRIC, Timmapur	Serum biochemistry of male and female dogs of Mudhol hound breed	SCP-TSP	-	2015	-	Mahesh, S. Dodamani

ABSTRACT OF COMPLETED RESEARCH PROJECTS

#	*College /Institute*	*Research Projects*	
		Total Nos.	*Amount (Rs. Lakhs)*
1	Veterinary College, Bengaluru	16	911.99
2	Veterinary College, Bidar	14	12.21
3	Veterinary College, Shivamogga	08	2.52
4	Veterinary College, Hassan	06	11.00
5	Dairy Science College, Bengaluru	-	0.00
6	Dairy Science College, Kalaburgi	-	0.00
7	College of Fisheries, Mangaluru	05	573.28
8	Institute of Animal Health and Veterinary Biologicals, Bengaluru	01	0.00
9	Institute of Wildlife Veterinary Research, Kodagu	04	0.00
10	Fisheries Research and Information Center, Bela, Ankola	-	0.00
11	Fisheries, Research and Information Center, Hesaraghatta, Bengaluru	-	0.00
12	Fisheries, Research and Information Center, Hebbal, Bengaluru	-	0.00
13	Fisheries, Research and Information Center, Bhutnal, Vijayapura	-	0.00
14	Livestock, Research and Information Center, Hallikhed, Bidar	01	1.46
15	Livestock, Research and Information Center, Konehalli, Tumkur	-	0.00
16	Livestock, Research and Information Center, Nagamangala, Mandya	01	0.30
17	Livestock, Research and Information Center, Dornalli, Yadgiri	-	0.00
18	Canine, Research and Information Center, Thimmapur, Bagalkot	02	0.00
	Total	**58**	**1512.76**

b) Research Highlights

VETERINARY COLLEGE, BENGALURU

Title: A study on use of spent maize (*Zea mays*) cob as roughage source in the ration of small ruminants.

The study was conducted to assess the spent maize cob as a source of roughage for feeding sheep. Twenty four lambs of Bannur breed of about 3-5 months of age with body weight ranging from 8 to 15 kg were divided into 3 groups of eight each in a completely randomized design. Twelve weeks feeding trial was carried out with an initial adjustment period of one week and six days digestion trial at the end of experiment. Animals of control group (T_1) were fed finger millet straw and compounded feed mixture (CFM) while the experimental groups were fed either urea and salt (1 per cent W/W) treated maize cob with CFM (T_2) or spent maize cob incorporated total mixed ration (T_3) with a ratio of 50:50 between roughage and CFM.

The chemical analysis revealed that, maize cob was comparable with finger millet straw except for lower CP (4.10 vs 2.61 per cent) and higher NDF and ADL (64.25 vs 80.88; 2.73 vs 6.78 per cent). The energy density (ME MJ/kg DM) was higher in urea treated maize cob (7.88) as compared to untreated maize cob (7.33) or finger millet straw (7.19). There was significant ($P<0.05$) difference in total DMI (g/d) among different groups [401.1 (T_1), 319.2 (T_2) and 406.5 (T_3)]. The ADG [g/d; 31.6 (T_1) to 46.5 (T_3)] and FCR (g DMI / g BW gain; 8.12 – 12.71) were comparable among treatments. The mean apparent digestibility (per cent) of nutrients (DM, OM, CP and NDF) was comparable except for ADF which was significantly ($P<0.05$) lower in T_2.

It was concluded that, the spent maize cob could be substituted for finger millet straw as a roughage source for feeding small ruminants at least during the periods of scarcity.

To overcome the problems of selective feeding on the concentrate portion of TMR mash and storage, handling and transportation of feed resources to deficit regions, a mixed ration was prepared in the form of block using maize husk and cob as the source of roughage. The ratio of roughage to concentrate supplement in the complete feed block was 40:60. Twenty Mandya / Bannur lambs of 4-6 months of age were divided into two groups of ten each in a completely randomized design. The CFB with finger millet straw was fed to T_1 and other with maize husk and cob was fed to T_2. Twelve weeks feeding trial was carried out with an initial adjustment period of two weeks and six days digestion trial at the end of experiment.

There was no significant difference in total DMI (g/d and per cent BW) between treatment groups (T_1; 451 and 3.30 and T_2; 508 and 3.47). The ADG (g/d) and FCR (g DMI/g body weight gain) for T_1 and T_2 groups were statistically non-significant (T_1; 65.12 and 7.77 and T_2; 77.75 and 4.89). The per cent digestible organic matter in dry matter was also comparable between groups. It is concluded from the present study that, the maize husk and cob could be used in replacement of finger millet straw as a roughage component in complete feed block up to 40 per cent for feeding sheep under intensive production system.

Title: Study on development and effectiveness of mobile application on fodder production in Karnataka

a. Repository of information regarding 16 fodders suitable to Karnataka was prepared.
b. Fodder App was developed in android platform with audio – visual support.
c. Majority (76.66 per cent) of the respondents of study area had perceived the mobile app favourably.
d. Study showed that the fodder app was effective in improving farmers knowledge on fodder production with knowledge gain of Mysuru division (45per cent), Bengaluru division (42.90per cent), Belagavi division (39.43per cent) and Kalaburgi division (37.50per cent)
e. Study concluded that fodder app could effectively used as ICT enabled tool for information dissemination for farmers.

Title: Evaluation of Spore forming bacterial probiotic on Growth performance, immunity and gut health in broilers

Progress made: Supplementation of the Spore forming bacterial probiotic to broilers

- Improved body weight, reduced feed intake and FCR.
- Litter moisture was lower in all probiotic supplemented groups
- Gut pathogen load enumeration revealed lowest *E.Coli* counts bacterial probiotic supplemented group than Clostat.
- Salmonella and Clostridium counts were also lower than control in all probiotic groups.
- Highest antibody titres against NDV and IBDV recorded in bacterial probiotic 200 g/ton supplemented grouped coupled with higher spleen weights suggest that bacterial probiotic was much better in improving immune response than Clostat.
- Bacterial probiotic supplementation through water was better than through feed.

Title: Flash based innovative technique as an aid in teaching Veterinary Anatomy

3-D animation video graph of the fore limb of buffalo calf with details of blood supply and orientation of the muscles running on the bones of fore limb has been completed the nerve supply to the same component is under progress. In addition to that the video graph of the original fore limb dissection along with audition was also made. Description of the individual muscles and their blood supply was also highlighted in the animated E-Module. Lastly a quiz pertaining to the limb was also added in the text for the assessment of the student's efficiency. Further modules are in progress.

Title: Morphological studies on fore and hind limb bones of Sloth Bear (*Melursus ursinus*)

Processing of fore limb bones completed by end of March, 2016. The collection and processing of hind limb bones of the bears completed by March, 2017. The main findings of this work add knowledge on detailed structural morphology of fore and hind limb bones of sloth bear in particular and wild carnivores in general. The work also demonstrated the comparative structures of bones to that of domestic carnivores.

Title: Studies on prevalence of food borne Trichinellosis in pigs and its impact on public health

1. Of the total 50 porcine samples (tongue and diaphragm) examined, all the samples screened were found negative for the *Trichinella spiralis.*
2. Trichinellosis is an established parasitic zoonosis known since ancient times. Awareness was created on Zoonotic Trichinellosis, hygienic production and proper cooking methods, during training programmes conducted for Farmers, Butchers, Animal attendants and public by the Dept. of Veterinary Public Health and Epidemiology, Veterinary College, Begnaluru on 13 -03-2017 and 20-04-2017.
3. Although studies carried out elsewhere in the world revealed less than 1 per cent prevalence in domestic pigs yet keeping Indian subcontinent in view elaborate studies comprising large sample size from different parts of the state are required so as to establish the prevalence status at State level.
4. Zoontoic Trichinellosis remain largely un-recognized in India. The paucity of information on epidemiology with respect to reservoirs, lack of strict meat inspection practices and inadequate cooking of meat are few among the several factors contributing to the incidence of trichinellosis.

Keeping in view, the economic, zoonotic and food safety aspects of trichinellosis, good farm practices, strict post-mortem inspection of pork and game meat, avoidance of consumption of raw or semi-cooked pork, thorough cooking of meat, effective freezing of pork (-15°C for not less than 3 weeks) and public awareness programs are recommended.

Title: Study on occurrence of gastrointestinal parasites in cats

1. Occurrence of helminthic infestation is more in kittens than adults.
2. No age, breed predilection was observed with respect to occurrence of helminthic infestation in cats

Title: Augmentation of reproductive efficiency in sheep through estrus synchronization and AI

1. Establishment of Nari Suvarna sheep flock

Initially 40 Nari Suvarna ewes and 10 rams which had an 40-50 per cent twin bearing capacity was procured from NARI, Phalton, Maharashtra. The sheep maintained in the flock was used for the evolving a suitable estrus synchronization procedures and standardizing the technology of artificial insemination. The reproductive performance of Nari Suvarna sheep was also assessed both under free grazing system and following supplementation of concentrates. Further, the various reproductive efficiency parameters in this breed were also established for the benefit of farmers.

2. Evolving of a suitable and practical method of estrus synchronization in sheep.

This component of the project was aimed at evolving an estrus synchronization protocol which is cheap, efficient and at the same time easy to follow. It was found that the vaginal sponges fabricated Avikanagar was ten times cheaper and fairly efficient than the intra vaginal releasing

device supply by Virbac. it was also found that the reproductive performance of Nari Suvarna ewes under natural grazing condition without supplementation of concentrate was extremely poor characterized by poor response through estrus synchronization protocol, extremely poor consumption rate, low birth weight of lambs and agalactia in mothers in contrast animals maintained under concentrate feeding showed good response to estrus synchronization protocol. it was also found that the response was better in autumn and winter.

3. Estrus symptoms and duration of estrus

An adult ram was vasectomized for the purpose of estrus detection in addition a criporchid ram born during the course of project was used for estrus detection. During training progarmme the farmers were shown various signs of estrus exhibited by the ewe after estrus synchronization and made to aware of the importance of estrus detection and the timing formatting.

4. Standardization of semen collection procedures.

The rams maintained in the flock was trained for responding to semen collection procedures using artificial vagina. For this purpose, cones AV and collection tubes were procured from Phalton. The volume, the semen concentration and the characteristics' of the semen of the Nari Suvarna rams was established. Further, the ideal frequency for semen collection was also established. In addition, semen was also diluted with suitable dilutor and the duration for which it can be used was established.

5. Artificial Insemination procedure

The estrus synchronized ewes was inseminated intra vaginaly with either fresh or chilled semen or the response studied. Further, since, in future artificial insemination in sheep may be carried out by laparoscopic procedures, an attempt was also been made to standardize the laparoscopic insemination in sheep

6. Training programmes for veterinarians

Hands on training programme were arranged for the veterinary officers of the Dept of AH and VS, Govt. of Karnataka. During this training programme, the veterinarians were practically exposed to the art of estrus detection, estrus synchronization protocol, semen collection technology, semen evaluation and processing and artificial insemination. As far as possible the vets were encouraged to perform this procedure themselves on the flock maintained in the department. Further, the technology of AI and ultrasound diagnosis of pregnancy was also demonstrated. a total of 88 veterinarians deputed for this purpose were given training in the batches 20-22.

7. Training programme for the farmers.

The training programme was not only aimed to popularize Nari Suvarna ewes among farmers but also expose the farmers to the technology of AI, feeding and management of sheep in general and various aspects of health and diseases in sheep including the importance of vaccination, deworming and feeding. a total of 468 farmers were given training during the training programmes in batches of 22-25. They were also given a booklet prepared on sheep Husbandry and reproductive managements

8. **Distribution of Nari Suvarna ewes and rams to farmers**

At the end of the project, the sheep and ram maintained was distributed to the farmers of Kolar and Tumkur districts. The beneficiaries were identified by the sheep board or Dept of AH and VS and at the time of distribution, the farmers were again given the knowledge of marinating the sheep for health.

Final outcome

1. The project was a small step to introduce the technology of AI to both Veterinarians and sheep farmers as AI in sheep is nonexistent in the state of Karnataka and is likely to be a major technology of breeding sheep in future. In this direction during the training programme it was observed that the veterinarians of the Dept. of AH and VS were not aware of the estrus synchronization protocol, technology of semen collection and AI and training of these officers as done during the project would definitely help the farmers as the AI in sheep and goats is being introducing in the state of Karnataka by establishing small ruminant semen station.
2. In the project a cheap and reliable estrus synchronization protocol was developed and can be easily adopted in the field both by farmers and veterinarians.
3. The framers were encouraged to maintain Nari Suwarna ewes and rams as it had a fairly high chance of twining at the same time, the importance of concentrate feeding was stressed upon.
4. A disadvantage observed in the project was that Nari Suwarna ewes have poor mothering instinct and need to be bottle fed.

Title: Studies on laparoscopic diagnosis of intra-abdominal disorders

Project 1: Laparoscopy proved to be an ideal diagnostic procedure replacing extensive exploratory laparotomy procedure in arriving for conclusions and sample collection, as it is minimally invasive, rapid healing and shorter hospitalization.

Project 2: The project is completed and detailed report has been submitted to Director of Research KVAFSU- Bidar and ICAR New Delhi.

VETERINARY COLLEGE, BIDAR

Title: Safety studies of nitenpyram in rabbits

Limit test carried out in rabbits. LD_{50} study was done, Nitenpyram administered at the dose rate of 2000mg/kg body wt orally, but no toxicity symptoms/adverse effects were observed, except mild diarrhoea. Therefore the drug is safe in rabbits and used for treatment of ectoparasites infestation. Blood samples were collected and subjected to biochemical and hematology parameters estimation. All the experimental rabbits (n=24) were administered with Nitenpyarm at the dose rate of 10mg/kg body wt orally, single dose for ectoparasite infestation (specifically mite infestation). Blood samples were collected for further analysis and all the parameters were within the normal range.

Title: Efficacy evaluation of poultry feed emulsifier on performance, nutrient metabolism, serum lipid profiles and carcass traits in broiler chicken

Poultry feed emulsifier showed increased broiler performance and carcass traits in chicken.

Title: Efficacy evaluation of herbal growth promoters in improving growth, performance, meat quality attributes and immune response in broilers

Herbal growth promoter showed enhanced performance and meat quality traits in chicken.

Title: Pharmacological evaluation and comparative study of herbal methionine on heat stress and performance in broiler chickens

The herbal methionine had moderate effect in improving heat stress and performance in broilers

Title: Pharmacological evaluation and comparative study of polyherbal antistress compounds on heat stress and immunity profiles in broiler chickens

The polyherbal antistress compound had moderate effect in improving heat stress and immunity profile in broiler

Title: Developing interlocking intramedullary nails and evaluating the nails for tibial fracture in large ruminants

a. The IILN technique has been standardized in large animals for repair of tibia bone fracture
b. The results of the techniques are favourable. The different sized animals are operated successfully for tibia bone fractures in large animals.
c. The IILN is providing immediate post-operative weight bearing in large animals.
d. The IILN is cost effective and affordable technique to farmers.

Title: Application of SOP plate for treatment of long bone fractures in dogs

Humerus, femur, tibia and radius bone fractures in dogs were successfully repaired using SOP plate.
The SOP technique provided buttress plating in canine long bones
Weight bearing and ambulation were noticed within one day
Compared to other plating techniques the complications were minimal

Title: Repair and reconstruction of surgical conditions of the udder and teat

The different diagnostic methods like palpation, probing, radiography and ultrasonography helped in early and accurate diagnosis of the conditions of the udder and teat.

The retrospective data of cases presented from last 11 years (2004-2016) were analyzed. Total surgical affections were – 15,752 out of that, affections of udder and teat were -78 (Cow – 34, Buffaloe – 31and Goat – 13). Prevalence per centage was- 0.49per cent.

Teat fistula, teat obstructions and teat wounds had more incidences in all animals.

In goats teat fistula was more common condition.

In cows teat obstruction was more common, followed by teat fistula

In buffaloes thelitis, fistula and obstructions were common

Thelectomy, mastectomy, reconstructive repair of teat fistula were effective salvage techniques. The hand milking by farmers, suckling by calves and auto mutilations of wounds has to be avoided in post-operative period. Strict adhering to the asepsis, gentle handling of the tissue during surgery, selection of suture materials and suture pattern, prompt postoperative management and maintenance of hygiene of the udder and teat were effective in controlling the infections and getting recovery from the udder and teat conditions.

Title: Evolving new Kenguri strain of sheep with high prolificacy for sustainable sheep production in Northern Karnataka

In first trial, a group of 20 Kenguri ewes were inseminated with NARI Frozen thawed semen. The lambing rate by inseminating the Kenguri ewes with frozen thawed semen was lowest (10 per cent) in trans-cervical method. None of the Kenguri ewe showed any disease or accident during gestation and lambing after using NARI Suwarna frozen thawed semen. The sex of both the lambs was female with body weight (Kg) ranging from 2.35 to 2.60 with gestation period (days) range of 147 to 151. A new Kenguri strain-1 of sheep (Kenguri > 50per cent + Deccani < 40per cent + Garole < 10per cent) can be produced using frozen thawed semen of NARI Suwarna strain from Kenguri breed.

In second trial, 30 Kenguri ewes were inseminated with fresh NARI Suwarna semen during oestrus period and a total of 26 Kenguri ewes lambed (86.66per cent) with 16 female and 11males and 1 ewe recorded stillbirth. Out of 26 Kenguri ewes 1 reported twinning.

In third trial, a total of 49 Kenguri ewes were inseminated with fresh NARI Suwarna semen during oestrus period and a total of 17 Kenguri ewes lambed (34.69per cent) with 10 female and 7 males. Out of 17 Kenguri ewes 1 reported twinning.

In third trial, a total of 20 + 3 Kenguri ewes were inseminated with fresh NARI Suwarna semen during oestrus period and a total of 14 Kenguri ewes lambed (70.00per cent) with 9 female and 5 males and 3 ewes are waiting for lambing.

A new Kenguri strain-1 of sheep (Kenguri > 50per cent + Deccani < 40per cent + Garole < 10per cent) was produced using fresh / frozen semen of NARI Suwarna strain in Kenguri breed.

Title: A comprehensive novel approach of synchronization of estrus in postpartum native sheep during non-breeding season

In this study, 80 post-partum anoestrus sheep were randomly divided into eight groups and were subject to different treatments of Progesterone injection by IM, SC, Intra Vulvo-vagnal mucosa with or without concentrate feeding for 15 days. A feed control group without progesterone injection and a control group without treatment and concentrate feeding was kept.

Results of the clinical trial in Native sheep.

Group	Heat observed within days after treatment							
	25-50	per cent	**50-75**	**per cent**	**75-100**	**per cent**	**No heat**	**per cent**
IMFP4 (n=10)	3	30.00	3	30.00	2	20.00	2	20.00
SCFP4 (n=10)	4	40.00	-	0.00	4	40.00	2	20.00
VMFP4 (n=10)	2	20.00	2	20.00	2	20.00	4	40.00
IMP4 (n=10)	1	10.00	0	0.00	0	0.00	9	90.00
SCP4 (n=10)	0	0.00	0	0.00	0	0.00	10	100.00
VMP4 (n=10)	0	0.00	0	0.00	0	0.00	10	100.00
FC (n=10)	0	0.00	2	20.00	3	30.00	5	50.00
C (n=10)	0	0.00	0	0.00	0	0.00	10	100.00

From the results obtained, it can be concluded that, feed supplementation along with progesterone injection followed by PGF2 Alfa injection 7 days later, can shorten the post-partum anoestrus phase compared to feed alone or control group animals.

Hence, concentrate feeding along with progesterone injection followed by PGF2 Alfa injection 7 days later can be recommended to shorten the post-partum anoestrus in native sheep.

Title: Polymerase Chain Reaction based diagnosis of Theileriosis in cattle

Analysis of two years of retrospective data from January, 2015 to December 2016 revealed a overall prevalence of bovine theileriosis as 6.33 per cent

The prevalence was significantly higher in crossbred animals (81.63per cent) compared to non-descript animals (18.37per cent)

Prospective study with PCR revealed a prevalence of 31.00 per cent.

Occurrence of bovine theileriosis was with *T. annulata (*40.32per cent), *T. orientalis (11.29*per cent) and Mixed infection (48.39per cent)

Sensitivity and specificity of blood smear examination in detection of theileriosis with PCR as standard diagnostic test was 74.19 per cent and 100 per cent respectively.

Title: Optimizing the process for preparation of chicken pop corns

Preliminary trial was done to standardize process for chicken pop corn preparation with optimum sensory acceptance.

Increased per cent frying yield and cooking yield with less batter pick up was observed with replacement of rice flour for corn flour in batter mix.

Sensory evaluation showed no change in acceptance of products prepared by replacing corn flour with rice/ragi flour

Title: Efficiency evaluation of some herbal products on growth and immunity parameters in Broliers

Herbal products improved the overall performance, growth and economy and boosted humoral Immunity.

Enhanced dressing per centage and carcass quality

Improved the economic returns

Title: Evaluation of feeding value of Sugarcane trash as a component of the diet in Nariswarna x Kenguri strain-1 sheep

The plane sugar cane trash is equal to any of the crop residues in nutritional composition.

The intake of all the nutrients (except NDF and ADF), digestibility of nutrients progressively increased significantly as the proportion of CFM increased in the diet from 60:40 onwards

Inclusion of sugar cane trash in the complete diet < 60 per cent level in sheep diet was found be beneficial

Title: Genotyping of Kenguri and NARI-Suwarna strain (Deccani X Garole) for *Fec-B* gene

Genomic DNA (gDNA) was isolated from blood samples of F_2 generation of Kenguri and NARI Suwarna strain of sheep and it was subjected for routine analysis for quality, purity and quantity. Good quality gDNA was considered for downstream application.

Polymerase chain reaction (PCR) was standardized for reaction components and for thermal profile. Reaction components and thermal profile that yielded specific amplification were utilised for the study.

PCR products were subjected for restriction enzyme digestion using *AvaII*.

Genotype and gene frequencies were estimated. In F_2, only Heterozygotes were detected

All F_2 did not resemble Kenguri sheep
Twinning was noticed in one sheep

VETERINARY COLLEGE, SHIVAMOGGA

Title: Studies on antimicrobial properties of cationic molecules against drug resistant pathogens of veterinary significance

1. The PHMB [Poly (HexaMethylene Biguanide) hydrochloride], a member of the biguanides group of antiseptics was found to exert synergistic effect with ampicillin.
2. Ampicillin resistant MRSA (methicillin resistant *Staphylococcus aureus*) when tested with the combination of PHMB+Ampicillin, the drug combination inhibited the growth of MRSA.

Title: Gross anatomy of bones of Mudhol hound dog

Studied gross morphology of all appendicular and axial skeletal bones
Studied the biometric parameters of appendicular skeletal bones (long bones)
Studied the biometric parameters of skull
Prepared a skeleton of Mudhol hound dog for museum.
Studied Parameters like volume, density, weight and corticomedullary index of long bones of Mudhol hound dog.

To conclude, gross structural and morphological details of the breed will help to understand its behavior and physiological activity. This study helps in the identification and characterization of Mudhol hound dog breed.

Title: Feeding value of De-corticated Cotton seed Meal (DCSM) in commercial layers

DCSM can be replaced with SBM up to 50-60 per cent without any adverse effect in laying hens.
Egg production was improved by incorporating DCSM upto10 per cent in diet.
DCSM can be used up to 10 per cent as a regular protein source in commercial layer diets.

Title: Investigation of disorders of thoraco-abdominal region based on Ultrasonography findings and ultrasound guided sample collection in cattle

Totally 46 clinical cases of bovines brought to Teaching Veterinary Clinical Complex with clinical sings of either or both cardiopulmonary and Digestive system malfunction were subjected to ultrasonography examination for disease investigation. Normal and abnormal conditions of various visceral organs were studied in all animals. Out of 46 animals, 15-Jersy crossbred, 18-Holstein Friesian crossbred, 2-Hallikar, 1-Sindhi cross and 10-Non-Descript. Thirty-nine were female and seven were male. Age ranged from 3 days to 15 years, however, abnormal findings were more

common in animals aged between 2 years to 6 years. Out of 46 animals, abnormalities by ultrasonography were noted in 42 animals and rest four animals showed near to normal findings.

Ultrasonography helped in visualization of following abnormal findings:

Thoracic region: Abnormal cardiac structure and function (6), Pericardial effusions(5), pleural effusions(2), protrusion of abdominal organs in thoracic region(3).

Abdominal region: Peritoneal effusions(5), Ruminal distension(14), decreased ruminal and reticular contractions(7), Small intestinal distension(8), Large intestinal distension(1), colo-urethral fistula(1), Enlarged liver(2), Enlarged hepatic vessels(1), Distended gall bladder(23), Enlarged spleen(1), protrusion of intestine(3) into subcutaneous region and differentiation of hernia from abscess.

Ultrasound acoustic window for anatomical location, displacement and for ultrasound sample collection was studied in detail and recorded. Fine needle aspiration was found to be most suitable in bovine using 20G or 18G needle of 1½ inch to 4inch needle for routine sample analysis by microbiological and/or cytological investigation. Out of 46 animals ultrasound guided sample collection was done in 18 animals for collection of pleural, pericardial and peritoneal effusions. Lab investigations revealed 12 samples with bacterial infection with inflammatory cells and rest four samples non inflammatory.

Ultrasongraphy of thoracic and abdominal region in bovine greatly helps in disease investigation. Sample collection can be undertaken more frequently due to visualization of most suitable approach, site, depth and any post sample collection complications. FNA sample was sufficient for lab investigation for preliminary diagnosis and treatment purpose.

Title: Studies on Bacterial and Parasitic Enteritis in Small Ruminants in and around Shivamogga

A Study was conducted from May-2015 to December-2016 to know the incidence of Bacterial and Parasitic Enteritis in Small Ruminants in and around Shivamogga. A total of 276 faecal sample were collected from Sheep and Goats having diarrhoea presented to Veterinary College Hospital, Ambulatory adapted villages (Tyajavalli, Sugur) and adjacent villages around Shivamogga (Sominakoppa, Gejjenahalli, Kotegongur). Bacterial culture and identification was done by standard protocol. Parasitic investigation was carried out by both direct method and sedimentation method as per standard procedure. Among 276 samples, 222 samples were found positive for Bacterial and Parasitic infections. Out of 222 positive, 183 (82.5per cent) were positive for Parasitic infections and 39 (17.5per cent) for Bacterial infections.

In the present study, both single and mixed parasitic infections were observed, with highest prevalence was seen with *Strogyle* spp. (33.5 per cent) followed by *Strongyle spp.* and *Trichuris spp.* (14 per cent), *Emeria spp*.(12 per cent), *Strogyle spp. and Amphistome* (12 per cent), *Strongyle spp. Emeria spp.,Trichuris spp. and Amphistomes* (9 per cent), *Strongyle spp.* and *Emeria spp.* (8.5per cent), *Fasciola spp.* (7 per cent), *Strongyles* and *Moniezia spp.* (4 per cent). Bacterial isolates were both pure cultures and mixed cultures with major isolate was *E. coli* (45per cent), followed by *E.coli* and *Bacillus subtilis* (15 per cent), *Salmonella spp.* (10 per cent), *Klebsiella spp.*and *Pseudomonas spp*. (10 per cent), *Klebsiella spp.* (5 per cent), *Pseudomonas spp.* (5per cent), *Enterobacter spp.* (5 per cent) and *Salmonella spp.*and *Pseudomonas spp.* (5 per cent).

Enrofloxacin (ES), Ceftriaxone (CRO), Amoxicillin/clavulanic acid (AMC), Sulphamethaxazole + trimethoprim (COT) and Metronidazole (MTZ) antibiotics were used for assessing the sensitivity pattern of the isolated bacteria. Majority of the bacterial isolates showed highest sensitivity to Sulphamethaxazole + trimethoprim.

Haematological investigation revealed decreased haemoglobin, PCV, TEC and increased TLC and Neutrophils levels in bacterial infection, where as decreased haemoglobin, PCV, TEC and increased eosinophils in parasitic infection. Improvement was seen in the haematological parameters after the treatment.

The animals positive for parasitic infection treated with different anthelmithic drugs *viz.,* albendazole, fenbendazole, oxyclosanide and ivermectin, where as animals positive for bacterial infection were treated with various antibiotics namely enrofloxacin, ceftriaxone, amoxicillin/clavulanic acid, sulphamethaxazole + trimethoprim and metronidazole. Along with antibiotic and anthelminthic therapy, supportive therapy was also given viz Fluids (RL, DNS), Hematonics (Ferritas) and B-complex liver extract injections (Belamyl).

Conclusion:

Enteritis was more commonly seen in sheep compare to goats.
Enteritis due to parasitic infection was more common compare to bacterial infection.
Both pure and mixed cultures of Bacteria were obtained.
Escherichia coli was the major isolate among bacteria.
Many cases shown mixed parasitic infections rather than single infection.
Among parasitic infection strongylosis was more common.
Animal treated with Sulphamethoxazole+Trimethoprim (Oriprim) showed faster and complete recovery.

Further study required, to identify the viral causes and concurrent infections of bacteria and parasite for enteritis in small ruminants.

VETERINARY COLLEGE, HASSAN

Title: A field trial on effect of supplementation of value added feed blocks on the growth of goat kids

The average daily gain in goats maintained 2 per cent urea supplemented diet (79.93g) and 2per cent urea with herbal anthelmintic supplemented diet (48.37g) was significantly higher than the control (22.35g). The helminth count significantly ($p<0.05$) decreased in both treatment groups compared to control suggesting that inclusion of dried guava leaves as a source of condensed tannins in the diet has effective anthelmintic property. The use of feed blocks with or without guava leaves was also found to be economical.

Title: Utilization of maize cob shank and sheath as a source of fodder for dairy animals

The chemical composition of maize cob by-products *viz.,* maize cob shank and sheath is similar to that of finger millet straw, a conventional dry fodder source. However, fortification of both the by-products with non-protein nitrogen sources (urea) and mineral mixture was essential to improve the feeding value for livestock. The processing approach such as grinding using shredder machine was advantageous to improve palatability and intake of maize cob by-products.

The technology of total mixed ration (TMR) could be effectively utilized for efficient use of maize cob shank and husk for dairy animal feeding to sustain milk production. Feeding maize cob shank and husk based compressed feed block is economical in high yielding animal.

Title: A study on pathogenesis of epitheliogenesis imperfecta - an inherited disorder of piglets

The research work was carried out in Veterinary College, Hassan from April 2016 to March 2017.

Epitheliogenesis imperfecta is a disease condition where animals will be born devoid of an area of skin, reported to be occur in several animal species and its inheritance is suspected to have autosomal recessive component.

In the present study there were two cases of Epitheliogenesis imperfecta (one in ILFC, HVC, Hassan and another one in Agasarahatti, Alur Taluk, Hassan District) in piglets.

Incidence: Among 10 piglets (Male: 6; Female: 4) born with epitheliogenesis imperfecta in ILFC farm only 4 survived (Male: 3; Female: 1) and among 8 piglets (Male: 4; Female: 4) born with epitheliogenesis imperfecta in Agasarahatti farm none survived.

The affected piglets showed multiple areas of skin lesions more concentrated in legs and face with devoid of epidermis, part of the dermis and adnexae. Necropsy of dead animals revealed along with the skin lesions purulent arthritis of hock joints, pneumonia and enteritis.

Histopathological examination of the skin revealed patchy loss of epidermis, presence of bacterial colonies, increased hair follicles and connective tissue in the dermis. No abnormalities detected in other organs.

Summary: The survival of few piglets in ILFC, farm, was due to timely diagnosis and early treatment with streptopenicillin injection, along with skin lesion dressing with cipladine and cotton gauge. However, in Agasarahatti Farm presentation was late and could not save any.

Cause of mortality was mainly attributable to secondary infection leading to arthritis, diarrhea and pneumonia. As skin is one of the major innate barriers, they might have picked up the infection by breech in the skin, which led to pneumonia, arthritis and enteritis. This implied the piglets suffering from EI were vulnerable to infections through discontinuous skin.

Further genetic study is required to confirm the autosomal recessive inheritance.

Title: A study on prevalence of Mycotoxicosis in broilers in and around Hassan by Toxicopathological investigation

The research work was carried out in Veterinary College, Hassan from April 2016 to March, 2017 with the objective of elucidating the prevalence of Mycotoxicosis in Hassan District and characterizing the gross and microscopic pathology of various manifestations.

Mycotoxicosis can affect poultry in many ways, ranging from immuno suppression leading to decreased vaccine efficacy, fatty liver, buccal, comb and wattle necrosis. Other effects include increased intestinal disruption due to physical damage to the intestinal epithelium, poor feather production and uneven growth.

A total of 274 poultry cases were necropsied during the study period, out of which 83 cases showing fatty livers were suspected for Mycotoxicosis.

The prominent gross lesions observed were varying degrees of yellow discoloration, multifocal haemorrhage and necrotic white foci on surface of the liver. Other gross lesions observed were swollen kidneys, enteritis, oedema and haemorrhages.

Histo-pathological examination of liver revealed hemorrhages and congestion of various degrees, vacuolar and fatty degeneration, separation of hepatic cords, necrosis of hepatocytes, bile duct proliferation and fibrosis. Kidney showed hemorrhages and congestion of various degrees, vacuolar and fatty degeneration, tubular degeneration with desquamation. Intestine revealed catarrhal inflammation with hemorrhages and verminous enterits in few cases. Heart showed disruption of myocardial fibres with haemorrhages. Depletion of cells in the lymphoid organs.

Summary: Based on the gross and microscopic findings the suspected fatty liver cases could be due to mycotoxicosis, although other causes for fatty livers like high energy diets, genetic predisposition, deficiency of lipotropic factors and other factors cannot be neglected. Further toxicological investigation by isolation, identification and quantification of the toxin from feed ingredients is needed to elucidate the prevalence.

Title: Efficacy of Flaxseed as natural antioxidants for the development of functional food in emulsion based meat products

The meat and meat products play an important role in providing the protein source to humans and they are known for high digestibility and bio-availability. In view of the increasing consumer awareness about quality and health benefits of diets, the present study was designed to improve the nutritional quality of chicken nuggets as functional food using flaxseed flour. The study group consisted of control and treatment groups: T-1, T-2, and T-3 containing 1, 2 and 3 per cent flaxseed respectively. The increase in flaxseed flour content in nuggets significantly ($p<0.05$) increased the moisture, fat, fibre and ash content while protein level was found to be slightly reduced. The pH values were significantly lower in treatment groups ($p<0.05$) and cooking yield and emulsion stability was higher with treatment groups ($p<0.05$). Upon fatty acid profiling, considerable increase in the linolenic acid and PUFA such as eicosapentaenoic acid and docosahexaenoic acid content in treatment groups was recorded as compared to the control group. The TBARS values were also significantly higher in treatment groups ($p<0.05$). The ultrastructural studies revealed that treatment group showed increased fat globule size with more compulsion and emulsion stability. Sensory evaluation at various stages of the experiment revealed significantly

higher sensory attributes ($p<0.05$) in the treatment groups. The addition of flaxseed also decreased the total viable count and psychrophilic count significantly ($p<0.01$), yeast and mould count was negligible and no coliforms were isolated during the study. The study elucidated the increased nutritional value of chicken nuggets (fibre, PUFA) with more emulsion stability, antioxidant activity, decreased microbial count and good sensory acceptability with incorporation of flaxseed.

Title: Studies on etiological aspect and surgical management of hoof lesions in dairy cattle in and around Hassan District

Seventy cases of hoof lesions in dairy cattle of Malnad areas of Hassan district were analyzed during the study. Heel lesions were more predominant in these areas (35) followed by inte-rdigital lesions (20) and toe lesions (5).Hoof lesions were more common in well fed cattle particularly after first calving. The breed-wise incidence of hoof lesions revealed that the lesions were more common in Holstein Friesian crossbred cattle(43) followed by Jersey cross bred (18) and other breeds(9).The hoof affections were more predominant in cattle aged >5 years (36 cases) and 2 to 5 year cattle (29 cases). Among the various predisposing causes, slippery floors bad hoof management at calving, bad conformation of the hooves, excess moisture in the cattle sheds and hilly terrains of malnad region were more common. Long hoofed animals were more susceptible for hoof affections. Sole lesions were appeared to be more critical compared to other cases. In most instances the heel lesions were identified as early phase of hoof affections. Whiteline disease was less common (3) but appeared to be grave compared to other lesions. Pigeon toe was observed in less exercised and confirmed animals. Various lines of treat were tried including the surgical corrections. Contra-lateral shoeing in heel affections and X-B-K (Xylazine-Butrophanol-Ketamine) standing stun were effectively tried in most cases.

COLLEGE OF FISHERIES, MANGALURU

Title: Defense genes of tiger shrimp (*Penaeus monodon*) with respect to bacteria (*Vibrio harveyi)*and white spot virus (WSSV) infection

The core objective of the project was to study the expression levels of few potent defense genes in various tissues (hemocytes, lymphoid organ, gills etc.) of the tiger shrimp *Penaeus monodon* at different time points with respect to bacterial (*Vibrio harveyi),* viral (WSSV) and a combination of both *Vibrio harveyi* and WSSV infections. When fed with immunostimulants and subsequently challenged with *V. harveyi* and WSSV by real time PCR. Identification of novel defense genes that elicit an immunological reaction and help in the survival of shrimp when challenged with the bacterial and viral pathogens and to clone the novel genes identified, express them using a prokaryotic expression system, characterize the purified protein and study its antimicrobial activity against various shrimp pathogens.

The results showed that in healthy shrimp the genes Akirin, β-actin, Thrombospondine, toll like receptor, heat shock proteins, ELF1α are normally expressed in all tissues tested. These immune genes were observed to be expressed within 12h of bacterial and within 12-24h of WSSV infection. Akirin, a novel gene reported for the first time in *P. monodon* was seen to be upregulated in immune modulated animals after 48hr post *V. harveyi* infection with a maximum gene expression of about 30 fold in gill tissue. HSP70 and HSP90 showed down regulation in immune stimulated animals post infection. Thrombospondine in gill was up regulated about 120 fold till 24 h post infection in β-glucan fed animals.

The other potent defense genes expressed were phosphatase-like protein, Crustin, death associated protein, eukaryotic initiation factor 5A (eIF5A), cyclophilin A and ribosomal protein 8 (L8). Recombinant crustin and phosphatase-like protein from *P. monodon* exhibited broad range antibacterial activity against shrimp pathogenic *V. harveyi. L*ow MIC of recombinant crustin and phosphatase was encountered indicating the bactericidal activity of these peptides even at low concentrations. Study indicates that recombinant crustin and PLP from *P. monodon* could be used as a therapeutic agent for controlling bacterial diseases of shrimp including vibriosis in aquaculture practice. The following defense genes have been sequenced and deposited in GenBank: Phosphatase-like protein (KC561136), CyclophilinA (KF214635), Death associated protein-like (KF214636) and Akirin (KT357016).

Title: Capture and removal of ammonia from fish processing waste using Archaea

The present research is an attempt at isolation and characterization of efficient ammonia oxidizing microbes (AOM) in fish processing effluent treatment plants (FPETPs).

The ammonia-oxidizing bacteria (AOB) that are potentially able to reduce ammonia were successfully isolated and characterized from waste water treatment plants located in and around Mangaluru. Isolated AOB were identified as *Nitrosomonas europaea* on the basis of 16S rRNA gene sequencing and the sequences were submitted to GenBank. AOB isolates showed efficient reduction of ammonia in *in-vitro* study at different time point. Furthermore the potential of AOB isolates in removal of ammonia in sewage water sample was studied.

The isolates were studied for the influence of pH, temperature, salinity and ammonia on their *amo*A gene expression and nitrification activity. Freshwater medium with pH 8 at temperature 30±1^{o}C was most effective in ammonia removal. A biofilter was fabricated for *in-situ* application studies and the efficacy of the isolates. The native AOB cultures of FPETPs obtained in the present study showed promise as a biotechnological tool for removal of ammonia from FPETPs and aquaculture ponds where ammonia levels are a concern in the effluent.

Title: Community dependence on coastal ecologically sensitive areas (ESAs) in Kundapur Karnataka

The Coastal Zone Regulation Notification 2011 has notified and proposed demarcation of Ecologically Sensitive areas (ESAs) and Critically Vulnerable Areas (CVCAs)(Part V Special Areas) *Para 7(v),* Class B of the CRZ Notification 2011. CVCA are resource areas within Coastal Regulation Zone (CRZ) that are "ecologically important areas" and that are to be "managed with the involvement of the local coastal communities including the fisher folk." The CVCAs are also referred to the a*rea requiring special consideration for the purpose of protecting the critical coastal environment and difficulties faced by local communities*. CRZ 2011 has notified two resource areas of Karwar and Kundapur in Karnataka as CVCA among the 12 such areas in 9 coastal states of India. The objectives of the study were to assess the extent of community dependence on the ESA ecosystems resources and the ability to govern through collective household survey.

Based on a comprehensive survey of 1600 households in 20 panchayat area of Kundapur region and population census data 2011, developed index of the extent of community dependence on the coastal resources to gauge the perception of the community on the need and strategies for conservation. The study compiled the coastal resource dependency in the region through review of secondary data. Conducted focused group discussions in order to validate the primary data by involving the community representatives from the study area. Socio-Economic Index (luxury index, basic needs index and richness index), Resource Utilization Index, high communication and basic mobility index from resource utilization index were estimated. Based on the index five resource areas were identified as CVCAs in Kundapur for demarcation as CVCA.

Title: All India Coordinated Research project on Post-Harvest Technology

Component 1: Technology for the production of silage using seafood industry waste for animal feed

Fish silage using fish processing industry waste was prepared and incorporated at – level in the preparation of poultry feed. The prepared pelleted feed, fed to poultry birds showed the growth and feed conversion efficiency comparable to commercially available poultry feed, with comparatively at low cost. This study showed the possibility of utilization of fish waste for the preparation of poultry feed thereby paving a way for its effective utilization.

Component 2: Development of gender friendly refrigerated fish vending and display unit using solar energy

The fish vending and display unit along with the refrigeration unit based on vapour courresion refrigeration system powered by solar energy was developed by installing solar power. The unit attained a temperature of 3-6^{0}c and the stored fresh fish at this temperature could in fresh

condition without spoilage for up to 10 days. This environmental friendly unit is useful in selling fish in fresh condition in any place including remote rural area.

Title: Development of artificial reefs in inshore waters to enhance the marine fish

Artificial reefs made out of cement concrete in the form of tripods and hallow blocks of the dimension 1.5 x 1 x 1 m and catch weighing about 40 kg. About 900sq. meter reef structures was installed at regular interval of about 50 meter distance at 15 meter depth off Uppunda, Udupi Dist. Building of artificial reefs is helpful in congregating fishes for nesting and breeding. As there will be protection from waves and currents, the artificial reefs also serve as nurseries for many marine fishes and invertebrates. A chain of new events such as niche-adoption by the natural stocks for their biological activities, competition for the available (protected) space and food, assembling of school-forming fishes in sizable numbers, relocation of small and medium sized predatory fishes, among others. Protection and development of nursery grounds by installation of such concrete blocks and thereby enhancing of primary production and promoting marine fishery resources along the coast. Fisheries resources availability and the species composition in terms of quantity was carried out before and after erection of artificial reef structures and stock assessment was being carried out throughout the project period. Presently, many local fishermen are fishing in the project area and they are getting good catch.

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

Title: Ccomparative genomics of NDV field isolates with vaccine strain

Objectives:

Isolation of Newcastle Disease Virus from field outbreaks.
Molecular studies targeting “F” gene of the vaccine strains and the isolated viruses.
Comparative genomics of isolated viruses with vaccine seed strainDate of commencement.
Isolation of a field strain of NDV.
Comparison of field isolates genome with the vaccine strains.
Characterizations of field isolate which is a prerequisite for considering it as challenge strain.
The isolated and characterised field strain can be handed over to Quality control as challenge strain for carrying out potency test with respect to NDV vaccine.
Further complete genome study of “F” gene of all the vaccine strains and also the field strain will be helpful in developing a recombinant vaccine.
Further filed strains need to be isolated to know the dynamicity of the circulating field strains.

CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, BAGALKOT

Title: Phenotypic characterization of both male and female dogs of Mudhol Hound breeds

Mean ± S.E. (cm) of body measurements of adult Mudhol Hound dogs.			
	Morphometric variable	**Adult male Mudhol Hound Dog (n= 50)**	**Adult female Mudhol Hound Dog (n= 50)**
01	Body Length	92.90 ± 0.70 **	85.70 ± 0.64 **
02	Head Length	27.13 ± 0.26	25.88 ± 0.20
03	Muzzle Length	15.90 ± 1.04	12.61 ± 0.13
04	Tail Length	57.85 ± 0.81	50.60 ± 0.60
05	Height at weithers	76.62 ± 0.49 **	69.56 ± 0.49 **
06	Height at Rump	76.07 ± 0.37	69.80 ± 0.45
07	Chest Girth	72.93 ± 0.67 **	66.56 ± 0.56 **
08	Belly Girth	44.45 ± 0.63	41.70 ± 0.56
09	Ear Length	14.32 ± 0.17	12.87 ± 0.17
10	Ear width	8.88 ± 0.12	8.29 ± 0.12
11	Neck Length	25.47 ± 0.37	23.60 ± 0.32
12	Eye Colour	Brown	Brown
13	Coat Colour	White/ fawn/ brindle/ patchy	White/ fawn/ brindle/ patchy

** Sex had highly significant effect (P< 0.05) on body length , chest girth and height at withers.

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

Title: Prevalence of gastro- intestinal parasitic infections in Indian Wild Boars (*Sus scrofa*) in the campus of Institute of Wildlife Veterinary Research, Doddaluvara, Kodagu District

Out of 25 faecal samples examined during period, 20 (80.00 per cent) samples were positive for helminth and coccidian parasites.

Among the different endoparasites found in wild boars, the prevalence of Strongyle sp., Strongyloides sp., and coccidian (*Eimeria sp.*) parasites were found to be 48 per cent, 8 per cent and 8 per cent respectively.

Mixed infection of Coccidia and Strongyle was found in 12 per cent of samples examined, while mixed infection of Strongyle sp. Ascaris sp. And Coccidia was found in 4 per cent of sample examined.

The quantitative assessment using modified McMaster's egg/ oocyst counting technique shown the intensity of Strongyle infection was ranging from 100 to 2100 eggs per gram of faeces. Average number of coccidian oocysts per gram of faeces in two samples that showed heavy infection was 27850.

Title: Prevalence of gastrointestinal parasites of free ranging Indian Hares (*Lepus nigricollis*) in Institute of Wildlife Veterinary Research campus, Doddaluvara of Kodagu District, Karnataka State

Out of 38 faecal samples, a total of 32 (84.21 per cent) samples were found to be positive for gastrointestinal parasites by coprological examination.

Out of 38 faecal samples screened, eggs of Strongyle, Strongyloides and Trichuris sp.were found in 18 (47.37 per cent), 9 (23.68 per cent) and 8 (21.05 per cent) samples respectively, either as a individual sp. infection or a part of mixed infections.

Coccidian oocysts were found in 17 out of 38 (44.73 per cent) samples examined.

Quantitative examination for parasitic burden done using modified Mc Master's technique reveled 200 to1400 eggs of Strongyle sp.per gram and 500 to 1, 49,700 Coccidianoocysts per gram of faeces respectively.

The EPG of infection of Trichuris sp. Was found to be 1900.

The study indicated the high risk of continuous parasitic burden in free ranging hares.

Title: Survey of gastrointestinal parasites in wild ruminants kept under captivity at certain zoological gardens of Karnataka

Out of 130 freshly voided faecal samples collected from wild ruminants of zoological gardens of Thyavarekoppa (Shivamogga) Gandekatte (Hassan), Adumalleshwara, (Chitradurga), Murughamut (Chitradurga) and Anagodu (Davanagere), 14 (10.76) were positive for parasitic infestations.

Gastrointestinal parasitic infestation was found in 2 out of 5 zoological gardens surveyed.

Among the total of 59 faecal samples of Sambar deer and 54 samples of Spotted deer, 10 (16.95 per cent) and 04 (7.41 per cent) samples were positive for parasitic infestations.

None of the 17 faecal samples from Black buck were positive for parasitic infestation.

In Sambar deer, prevalence of Strongyle sp., Monezia sp. and mixed infestation of Monezia and Strongyle sp. were 13.56 per cent, 1.69 per cent, and1.69 per cent respectively.

Out of 54 faecal samples of spotted deer screened, prevalence of Strongyle sp., Strongyloides sp., and mixed infection of Strongyle and Strongyloides sp. were found to be 3.70 per cent, 1.85 per cent, and1.85 per cent respectively.

Title: Prevalence of gastrointestinal parasites of free ranging Indian Pea fowl (*Pavo cristatus*) in the campus of Institute of Wildlife Veterinary Research, Doddaluvara of Kodagu District

Out of 73 fresh faecal samples, a total of 32 (43.84 per cent) samples were found to be positive for gastrointestinal parasites by coprological examination.

Among the positive faecal samples, 29 (90.63 per cent) samples were positive for single genus parasites and 03 (09.37 per cent) samples shown mixed infections of different parasitic genera.

Out of 73 faecal samples screened, Heterakis eggs, Ascarid eggs, Capillarid eggs and were found in 06 (8.22 per cent), 03 (4.11per cent) and 1 (1.37 per cent) samples respectively, either as individual sp. infection or a part of mixed infections.

Coccidian oocysts were found in 25 out of 73 (30.14 per cent) samples examined.

The Quantitative examination for parasitic burden by using modified Mc Master's technique revealed the range of 30,500 to 89,500 oocysts per gram of faeces in case of coccidian parasite infection.

The number of Capillarid eggs and Heterakis eggs per gram of faeces were found to be 1200 and 100 respectively.

The presence of coccidian oocysts in substantial number of faecal samples of free ranging peafowl indicated the risk of continuous coccidian burden in free ranging Indian pea fowls.

LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA

Title: Prevalence and Pathological studies on Paratuberculos (Johne's Disease) in Mandya Sheep

In the present study 434 serum samples along with faecal samples were collected for initial screening of Paratuberculosis in Mandya Sheep and 25 samples were positive for JD indicating the prevalence rate around 6 per cent

Various clinical signs in suspected cases were cachexia, anemia, paleness of conjunctival mucous membrane, jawl edema, going down in condition and intermittent diarrhoea.

The hematological parameters (Hb, TEC, TLC, DLC, Platelt Count) were estimated and found that there was decreased level of Total Erythrocyte Count and Hemoglobin concentration significantly. There was altered Neutrophil to Lymphocyte ratio in DLC. TLC level also decreased to some extent and there was no much significant alteration in Platelet Count.

The biochemical parameters (Total Protein, Albumin, Total Bilirubin, Creatinine, Cholesterol, Glucose, ALT, AST, Triglycerides, Calcium, Phosphorous and Magnesium,) in clinical and subclinical JD was estimated and found that there was decreased serum concentrations of calcium, total serum proteins, and serum albumin compared with controls in JD. Glucose, cholesterol, albumin, creatinine decreased significantly in subclinical and clinical cases. Alanine transaminase (ALT), Aspartate aminotransferase (AST) and Total bilirubin increased significantly in clinical cases compared to sub-clinical cases. No significant difference was observed in triglycerides and phosphorous in clinical and sub-clinical cases compared to control sheep.

Grossly lesions recorded were muscular atrophy, thickening and corrugation of intestines especially at ileocaecal junction, chording of mesenteric lymphatics with enlarged and oedematous lymph nodes. Gelatinous fat atrophy was very conspicuous in omental, mesenteric, pericardial and perirenal fat.

Histopathological lesions included microgranulomas (paucibacillary) with few epitheloid cells, while large granulomas (multibacillary) were characterized by extensive infiltration of macrophages and epitheloid cells along with acid fast organisms.

Outcome:

Various diagnostic tests were adopted included Faecal smear exminaton after Ziehl Nie lson staining, Indirect ELISA, Faecal PCR, Johnin test and found that different diagnostic tests are

helpful in determining different stages of Johne's Disease and thus a definitive strategies need to be made for collecting the samples at different stages of infection.

Title: Evaluation of Prophylactic and Therapeutic Efficacy of Salcochek and Salcochek Pro against *Clostridium perfringens*-induced necrotic enteritis in chickens

Pharmaco-active constituent herbs of AV/ADC/16 alleviated diarrhoea symptoms by adsorption and inactivation of enterotoxins and protecting gastro-intestinal mucosa without any adverse effects and improve overall performance of birds in terms of growth rate and feed efficiency. The new polyherbal antidiarrhoeal formulation can be recommended as a prophylaxis for treatment of bacterial enteritis in poultry.

2) Ongoing Projects

a) Research Details

Depts.	*Title*	*Funding Agency*	*Budget (in lakhs)*	*Yr. of Comt.*	*Principal Investigator*
VETERINARY COLLEGE, BENGALURU					
AGB	Development of new meat type crossbred sheep with exotic Dorper breed.	RKVY	100.00	2014	M.R. Jayashankar
AGB	Studies on molecular genetic diversity of reproductive trait gene in indigenous sheep	KVAFSU, Bidar	0.60	2016	R. Nagaraja
AGB	Genetic Characterization of Mudhol breed of Dog using microsatellites	KVAFSU, Bidar	0.50	2016	M.R. Jayashankar
AGB	Studies on molecular genetic markers for traits of economic importance in crossbred cattle	KVAFSU, Bidar	1.00	2017	R. Nagaraja
AGB	Studies on genetic polymorphisms of candidate genes for meat quality in Mandya sheep	KVAFSU (SCSP)	1.00	2017	S. Naveen Kumar
ANN	Effect of strategic supplementation of Zinc on growth performance of grazing lambs.	KVAFSU, Bidar	0.50	2015	B.C. Umashankar
ILFC	Association study of genetic variants at Single Nucleotide Polymorphism of the MBL 1 gene with mastitis in Holstein Friesen crossbred and Deoni cattle	KVAFSU, Bidar	1.00	2016	Shankarappa Bhajantri
LPM	Feed and Fodder Evaluation and Development of Cost Effective Feeding Strategies to Increase Ruminant Production and Reduce Environmental Impact	Altech-Nutrition Research Alliance	6.00	2013	Y.B. Rajeshwari

LPM	*In vitro* rumen fermentation, digestibility and gas production studies to develop feeding strategies for optimal use of Lucerne and Sesbania in stover based dairy cow diet	KVAFSU, Bidar	0.50	2016	Mahadevappa, D. Gouri
LPM	Impact of dietary supplementation of Slow Release Nitrogen Product (SRNP) and fibrolytic enzyme on lactation performance of Dairy Animals	Altech-Nutrition Research Alliance	-	2016	H.N. Narasimha Murthy
PSC	Strengthening of Poultry farm at Poultry science Department, Veterinary College, KVAFSU, Hebbal, Bengaluru for empowerment of rural youth and rural women.	Centrally sponsored scheme, GOI	34.45	2013	Jayaniak
PSC	Automation of Giriraja breeder house	RKVY, DoA, GOI	20.00	2013	Jayaniak
PSC	Performance of Commercial broilers supplemented with Processed Organic waste	BIONAR	1.33	2016	V. Malathi
PSC	Study on the efficacy HimTOX to ameliorate toxic effects of mycotoxin in broilers	Himalaya Drug Co.,	2.25	2016	Jayaniak
VAHE	Develop and Evaluate Use of Mobile application for Cattle Farming: A New Generation Technology Transfer for Sustainable Dairy Production	ICAR	9.20	2016	K. Satyanarayan
VAHE	Dairy farmers Knowledge, Perception and Adaptation Measures towards Climatic Variability – An Explora-tory study in Karnataka	KVAFSU, Bidar	0.30	2016	V. Jagadeeswary
VAN	Zero Formalin Technique For of Biological Specimens	KVAFSU, Bidar	0.50	2016	K.V. Jamuna

VPA	Detection of Theileria organisms in ticks infesting sheep by PCR	CAFT (ICAR)	RC	2016	G.S. Mamatha
VPA	Dynamics of Epidemio-logical intelligence and risk factor analysis for Surra in Wild and domestic animals	CAFT (ICAR)	RC	2016	Jaya Nagappa Lakkundi
VPH	Project on diagnosis of rabies and anthrax in animals: Outreach Programme on Zoonotic diseases	ICAR, New Delhi	66.85	2009	G. Leena
VPH	Studies on prevalence of *Arcobacter* sp. (Emerging food-borne pathogen) in foods of animal origin	Non-financial, KVAFSU, Bidar	-	2016	H.V. Mohan
VPP	Studies on clinico-pathology and molecular diagnosis of paratuberculosis in small ruminants	SESP Grants, GoK	1.00	2016	H.D. Narayanaswamy
VPT	Studies on Pharmacok-inetics and Biodistribution of Azithromycin in broiler chickens	Alembic Pharmaceu ticals Ltd., Mumbai	3.67	2015	Jagadeesh, S. Sanganal
VPT	Safety and Efficacy evaluation of paclitaxel nanoparticles in mammary tumor induced rats.	SCP Grant	1.00	2016	Jagadeesh, S. Sanganal
VPT	Induction of lactation in unproductive animals	RKVY, GoK	55.00	2015	Jagadeesh, S. Sanganal
TVCC	Studies on occurrence of canine heartworm infection	KVAFSU, Bidar	0.50	2016	M.A. Kshama
VMD	Studies on epidemiological, clinical aspects of leptospirosis in dogs	KVAFSU, Bidar	1.05	-	P.T. Ramesh
VMD	Studies on bovine Tuberculosis in small dairy holdings at Peri-urban area of Bengaluru	PHFI-ILRI	2.20	-	P.T. Ramesh
VGO	Evaluation of therapeutic efficacy of mifepristone for inaccessible/ inoperable vaginal leiomyoma in dogs	KVAFSU	0.40	-	Narasimha Murthy

VBC	FIST-DST	DST, New Delhi	55.00	2015	V. Girish Kumar
VSR	Efficacy of vacuum assisted wound closure apparatus for the treatment of Joint ill in calves	KVAFSU, Bidar	1.20	-	B.N. Nagaraja
VBC	Physio-biochemical and reproductive parameters in captive tigers	ZAK, Bengaluru	1.50	2016	V. Girish Kumar
VMC	Molecular epidemiology and genomics of mastitis-associated staphylococci	DBT	18.62	2016	Shrikrishna Isloor
VMC	Evaluation of Inactivated mycobacterium avium subspecies paratuberculosis (MAP) vaccine in sheep	SCP / TSP, KVAFSU	1.00	2016	D. Rathnamma
PSc	Conservation and improvement of local native germplasm and development of a location specific rural chicken germplasm	ICAR	16.29	-	C.S. Nagaraja
VPT	Studies on management of common diseases using herbs	RKVY	25.00	2015	Jagadish, S. Sanganal
VETERINARY COLLEGE, BIDAR					
VAN	Morphology and Cyotoarchitecture of Olivary Nucleus in the brain stem of sheep and goat	KVAFSU, Bidar	0.35	2014	M.H. Girish
VMC	Study the Safety and Immunogenicity of Tetanus toxiod Vaccine in animals	IIL, Hyd	2.11	2016	Basavaraj Awati
VPA	Studies on Mange infestation in donkeys in and around Bidar	KVAFSU, Bidar	0.10	2015	C.M. Krishna Murthy
VPB	Effects of heat stress on insulin, heat shock proteins (HSP70), milk yield and somatic cell score in lactating Deoni cows	KVAFSU, Bidar	0.40	2016	Shrikant Kulkarni

VPB	Developmental potency of *in vitro* fertilized early stage goat embryos cultured in media supplemented with different antioxidants	KVAFSU, Bidar	0.50	2016	Shrikant Kulkarni
VPE	Epidemiological Study on shedding pattern of *E. coli* O157:H7 in Deoni *vis a vis* exotic cattle breed	KVAFSU, Bidar	0.50	2016	Pradeep Kumar
VPE	Detection and quantification of antibiotic residues in chicken meat using microbiological and HPLC assays from Hyderabad-Karnataka Region	KVAFSU, Bidar	0.50	2016	Pradeep Kumar
VPT	Validation of ethnoveterinary practices in the management of common ailments of liverstock	RKVY, GOK	20.00	2016	M. Vijaykumar
VSR	Evaluation of a suitable anaesthetic combination for general anaesthesia in ruminants	KVAFSU, Bidar	0.50	2016	B. Bhagavantappa
VGO	Therapeutic management of infertile animals and organizing infertility treatment camps for AI synchronized by use of CIDR in crossbred cows and buffaloes in Bidar district	RKVY	100.00	2016	M.K. Tandle
VGO	Augmenting the fertility in Anestrus buffalo heifers by using Monensin as an alternative to concentrate feeding	KVAFSU, Bidar	0.50	2016	M.K. Tandle
VGO	Induction of fertile Estrus in Anestrus Local Ewes in Bidar District	KVAFSU, Bidar	0.40	2016	R.G. Bijurkar
VGO	Two kidding per year program in Goats	SCP/TSP	1.25	2016	R.G. Bijurkar

VGO	Application of Anti-luteolytic strategies in treating repeat breeding cows	KVAFSU, Bidar	0.50	2015	V.G. Doddagoudar
VMD	Evaluation of antibiotic with and without nebulizer in pneumonia of goats	KVAFSU	0.40	2016	H. Sandeep
VMD	Clinical and ultrasonographic evaluation of cystitis in large animals	KVAFSU	0.25	2016	B.G. Ravindra
VMD	Evaluation of efficacy of biopesticides against *culicoides* midges- A blue tongue vector	SCSP/TSP	1.25	2016	B.G. Ravindra
VAHEE	Support to Livestock and Extension Activities in Bidar District under Sujala-III Project	KWDP-Sujala III Project	14.69	2014	Prakashkumar Rathod
LPT	Effect of age on proteomic characterization and ageing changes in osmanabadi goat meat	SCSP-TSP Research Grant	1.50	2017	M. Kiran
LPT	Effect of essential oils in combination with edible packaging on stability of emulsion based chicken products stored under refrigerated and frozen condition	DST SERB	27.30	2017	M. Kiran
LPM	A study of the performance of Nari Swarna x Kenguri crossbreds	KVAFSU Bidar	0.05	2017	Prashant Waghmare
ANN	Database of feed ingredients chemical composition and nutritive value of Bidar district ruminants	SCSP/TSP	1.00	2017	Ravindra Dombar
AGB	Characterization of Bidri and Nandidurga Goats of Karnataka	NBAGR, Karnal	29.50	2016	H.M. Yathish
VETERINARY COLLEGE, SHIVAMOGGA					
VPE	Livestock support and extension activities SUJALA-III component – Davangere (D)	KWDP-Sujala, GoK	53.72	2014	K.C. Veeranna

VPH	e-Varaha: Information System for Safe Pork Production in North Eastern India	ITRA, Govt. of India	16.83	2016	Nagappa Karabasanavar
VPB	Isolation and characterization of bacteriophages specific to pathogenic bacteria in livestock	Dept. of Social Welfare, GOK	2.00	2017	L.R. Ananthakrishna
ANN	Effect of L-Threonine supplementation on Egg Quality parameters in Layers	KVAFSU, Bidar	0.30	2015	B.D. Ravindra
VPP	A systematic documentation of the pathological conditions in captive wild animals in and around Shivamogga	KVAFSU, Bidar	0.60	2014	B. Kavitha Rani
VPP	Characterization and prognostic evaluation of embryonic stem cell signatures in canine mammary neoplasia	SandERB, DST	55.00	2016	K.R. Anjan Kumar
VMC	Evaluation of causative agents and their antimicrobial sensitivity patterns in recurrent ear infections in canines	KVAFSU, Bidar	0.20	2016	Arun, S.J.
VMC	Molecular identification of infectious agents associated with different disease conditions in captive wildlife in the vicinity of Malnad region	KVAFSU, Bidar	0.40	2016	Sundareshan
VAN	Development of Scaffold Technology for Industrial Progress, Societal Benefit and Environmental Safety	BIRAC-SRISTI	1.00	2016	R.V. Prasad
AGB	Karyological studies in Malnad Gidda cattle	KVAFSU, Bidar	0.50	2016	V.B. Shettar
LPT	Upgrading the facilities in the area of meat processing including establishment of mini abattoir and quality control	MoFPI under NMFP	75.00	2013	Chidanandaiah
VAE	Livestock support and Extension Activities	KWDP-Sujala	29.58	2014	K.C. Veeranna

ILFC	Influence of integrated nutrient management (INM) practices on Hybrid Napier fodder crop and its effect of feeding value on Malnada Gidda breed of cattle	KVAFSU, Bidar	0.40	2016	M.M. Venkatesha
ILFC	Study on odour management in piggery farm using effective microorganisms	KVAFSU, Bidar	0.40	2016	G.M. Satheesha
VGO	Incidence and therapeutic measures for fungal infection in repeat breeder bovines in and around Shivamogga	KVAFSU, Bidar	0.40	2014	B.P. Ravikumar
VGO	Induction of lactation in unproductive animals	RKVY	30.00	2016	N.B. Sridhar
VPT	Studies on Potential Therapeutic Utility of Pimobendan in Arsenic induced Cardiovascular Dysfunction in Wistar Rats	Social Welfare Dept., GoK	1.40	2016	Prashantkumar Waghe
LPM	Supplementation of L-Threonine for Optimization of Dietary Crude Protein Levels in Broiler diets	KVAFSU	0.40	2016	T.N. Krishnamurthy
LPM	Characterization and Performance evaluation of Indigenous/Native Chicken of Shivamogga District	KVAFSU, Bidar	0.60	2016	B.G. Veerannagowda
LPM	KWSDP –II Sujala-III	KWSDP	-	2017	T.N. Krishnamurthy
TVCC	A study on the effectiveness of homeopathic complex in chronic mastitis in Cattle and Buffaloes	KVAFSU, Bidar	0.30	2016	S.P. Satheesha
VMD	Studies on Sero-prevalence, Haematology and Biochemical aspects of Anaplasmosis in Cattle in and around Shivamogga	KVAFSU, Bidar	0.60	2016	Suresh Patel Revanna

VETERINARY COLLEGE, HASSAN					
VAN	Comparative study on gross morphology and histology of alimentary canal in Hassan, Mandya and Kenguri breeds of Sheep	KVAFSU, Bidar	0.30	-	N.M. Rajashailesha
VPT	Evaluation of Gingiber officinale as a potential phytobiotics as an alternative to antibiotics in broiler chicken	KVAFSU, Bidar	0.40	2014	C.R. Santhosh
VPT	Validation of ethno - veterinary practices in the management of common ailments of livestock (RKVY)	RKVY	16.50	2016	C. Ravikumar
VPT	Screening of Antibiotic residues in milk samples in Hassan District	SCP/TSP	0.65	2016	C. Ravikumar
VPA	Backyard rabbit farming for rural women empowerment	DST-SEED	53.00	2016	H. Dhanalakshmi
VPA	A study on Hepatointestinal Schistosomosis in cattle	KVAFSU	0.25	2016	H. Dhanalakshmi
VPA	Acaricidal pheromone based traps for tick control in dogs	KVAFSU	0.25	2016	M. Veena
VPA	Studies on the prevalence of parasitic stages on vegetables in Bengaluru and Hassan	KVAFSU	0.20	2016	G.C. Puttalakshmamma
VMC	Microbial Profile and antimicrobial effect of Donkey milk	KVAFSU	0.25	2016	K.M. Chandrashekar
ANN	Effect of Hepato Care® supplementation on *in-vitro* digestibility and physio-biochemical status in ruminants	Varsha Multi-tech, Bengaluru	1.01	2016	H.S. Madhusudhan
ANN	Effect of Ferticare Plus® supplementation on *in-vitro* digestibility, biochemical and reproductive status in ruminants	Varsha Multitech, Bengaluru	1.04	2016	H.S. Madhusudhan

AGB	Herd registration and field performance recording in Amrithmahal cattle	KLDA	41.33	2014	G.S. Naveen Kumar
AGB	Herd registration and field performance recording in Hallikar cattle	NAFCC	55.00	2016	G.S. Naveen Kumar
LPT	Implementation of clean milk production practices at the village level	KVAFSU, Bidar	0.25	2015	H. Devaraja Naik
LPT	Implementation of Food Safety Standards Authority of India (FSSAI) at Hassan city Hotels	KVAFSU, Bidar	0.30	2016	H. Devaraja Naik
LPM	Propagation for Tree fodder varieties by creating fodder nursery	KVAFSU	0.50	2016	R. Jayashree
VAHEE	Utilization of COFS29 for fodder and seed production in Hassan taluk	KVAFSU	0.40	2015	L. Manjunatha
VAHEE	Promotion of intensive cultivation of Sesbania and Erythrina fodder tree crops for improving the efficiency of production of Dairy Cattle in Hassan taluka	KVAFSU	0.30	2015	Sushant Handage
VAHEE	Livestock support and extension activities, Sujala-III Project	World Bank and Dept. of Watershed	20.63	2014	L. Manjunatha
VSR	Studies on urolithiasis in sheep and goat in and around Hassan	KVAFSU, Bidar	0.25	2016	B.R. Balappanavar
VMD	Comparision of topical Ivermectin pour on, Amitraz and Permethrin preparations for mange infestation in pigs	KVAFSU	0.25	2016	M.C. Anil Kumar
VMD	A Pilot Study On Prevalence Of *Culicoides species* In And Around Hassan.	KVAFSU	0.40	2015	K. Kavitha
TVCC	Ultrasonography in the diagnosis of thoraco-abdominal disorders in sheep and goats.	KVAFSU	0.15	2016	D.R. Manjunatha

TVCC	Studies on incidence, clinico-pathological findings in ruminal disorders of crossbred cattle in and around Hassan	KVAFSU	0.20	2016	V. Shivakumar
DAIRY SCIENCE COLLEGE, BENGALURU (DSCH)					
DT	Establishment of Food Rheology Laboratory	MoFPI, New Delhi	75.00	2014	D.B. Puranik
DT	Establishment of Food Processing Training	MoFPI, New Delhi	15.00	2014	D.B. Puranik
DMC	VTCC network project on Dairy Microbes	NARC, ICAR	3.25	2010	B. Ramachandra
DC	Studies on the therapeutic properties of the fermented milks incorporated with oats *(Avena sativa)*	KVAFSU, Bidar	0.25	2016	Jayashri, P. Hiremath
COLLEGE OF FISHERIES, MANGALURU					
Aqua	All India 3	C33+6MF RI, Kochi	25.57	2015	E.G. Jayaraj
Aqua	Evaluation of efficacy of Mangala Setright and Mangala Borosan on water quality and fish production (Scheme No. 5089)	Mangaluru Chemicals and Fertilizers Ltd.	4.97	2015	M. Ganapathi Naik
Aqua	National Surveillance Programme for Aquatic Animal Diseases (Freshwater)	NFDB	76.93	2013	K.S. Ramesh
AEM	Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point off Padubidri	UPCL	8.91	2016	H.R.V. Reddy
AEM	Monitoring of pollution impact by discharge of treated effluents from BASF, Mangaluru	BASF	6.33	2016	M.T. Laksmipathi
AEM	Ecological monitoring of Arabian Sea receiving effluents from MCF	MCF	5.10	2016	Gangadhara Gowda
AEM	Analysis of sea water monitoring at Marine outfall discharge point (MSEZ)	MSEZ	6.58	2016	Gangadhara Gowda

AEM	Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of KarnatakaTreated (INCOIS)	INCOIS	10.38	2016	Gangadhara Gowda
AEM	Bioassay and soil analysis	M/s Sequent Scientific Ltd.	0.45	2016	Gangadhara Gowda
FMC	DBT – Bioinformatics – "Distributed Information Sub Centre (DISC)	DBT, GoI	12.55	2012	M.N. Venugopal
FMC	National Surveillance Programme for Aquatic Animal Diseases (Brackishwater)	NFDB	70.44	2013	M.N. Venugopal
FMC	Novel molecular approaches for advancing prediction and mitigation of disease outbreaks in aquaculture for small scale farmers	Indo-UK. DBT-BBSRC project	71.33	2016	M.N. Venugopal
FMC	Isolation and characterization of bioactive compounds from marine bacteria	KVAFSU	0.60	2016	T. Suresh
FMC	Development of therapeutic phage consortia to manage *Aeromonas hydrophila* infection in aquaculture systems	DBT (NER-BPMC; BCIL)	21.00	2017	S.K. Girisha
FPT	All India Coordinated Research project on Post-Harvest Technology	ICAR-CIPHET, Ludhiana,	-	2016	C.V. Raju
FEC	An assessment of ecological-economic benefits of estuaries in Karnataka, India	ICAR-Emeritus Scientist Scheme	8.10	2015	Ramachandra Bhatta

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU					
IAH and VB	All India Coordinated Research Project on Animal Disease Monitoring and Surveillance	ICAR	11.00	1998	P. Giridhar
IAH and VB	All India Co-ordinated Research Project for Epidemiological Studies on Foot and Mouth disease	75 per cent ICAR; State-25 per cent.	50.00	1997	S.M. Byregowda
IAH and VB	Southern Regional Disease Diagnostic Laboratory	Governme nt of India	264.00	1999	S.M. Byregowda
Biological Production Division	Standardization and production of species specific antisnake venom from chicken eggs	RKVY	50.00	2015	M. Sobha Rani
Biological Production Division	Development and Evaluation of pentavalent Bluetongue vaccine for sheep and standardisation of rapid diagnostics for early detection of Bluetongue	Sheep Board, Govt. of Karnataka	30.54	2014	S.M. Byregowda
IAH and VB	Ultramodern laboratory facility for production of vaccines against sheep diseases and zoonotic diseases	Govt. of Karnataka	2700 .00	2016	S.M. Byregowda
Biological Production Division	Development of combined Sheep pox and PPR vaccine for small ruminants	NCP-PPR	4.00	2013	S.M. Byregowda
Biological Production Division	Standardization Of Black Quarter Vaccine Using Montanide Adjuvant	IAH&VB	2.75	2012	S.M. Byregowda
Biological Production Division	Modification of animal challenge facility for testing vaccines as per GMP	Govt. of Karnataka	500.00	2016	S.M. Byregowda
Biological Production Division	Livestock methane reduction through immunization based approaches	DBT	4.70	2014	S.M. Byregowda

IAH and VB	Screening for Genetic Disorders in Breeding Bulls in Karnataka State	Govt. of Karnataka	235.00	2014	M.D. Venkatesha
Biological Production Division	Development of bicistronic DNA vaccine for Classical Swine Fever with GM-CSF as a molecular adjuvant	Govt. of Karnataka	32.00	2016	S.M. Byregowda
IAH and VB	Providing equipments to Disease Diagnostic Laboratory, Bagalkot (Bagalkot Dist), Kolar (Kolar Dist), Sira (Tumkur Dist) and Sirsi (Uttara Kannada Dist)	RKVY	190.00	2013	S.M. Byregowda
Biological Production Division	Development of combined sheep pox and peste des petitis ruminants vaccine for small ruminants	IAH&VB	2.00	2013	S.M. Byregowda
Biological Production Division	Standardization of dose reduction of H S vaccine	IAH&VB	3.00	2014	S.M. Byregowda
Biological Production Division	Standardization of dose reduction of Black Quarter vaccine	IAH and VB	3.00	2014	S.M. Byregowda
Biological Production Division	Development and evaluation of H S and Black Quarter vaccine using alum adjunct technology	IAH and VB	3.00	2014	S.M. Byregowda
IAH and VB	Establishment of Hematological and biochemical profile of Deoni of cattle	IAH and VB	3.00	2014	K. Sripad
IAH and VB	Establishment of Hematological Profile of Malnadgidda breed of cattle	IAH and VB	0.80	2016	K. Sripad
IAH and VB	Study of the hematological and serum biochemical profile of calves affected with pot belly / pendulous abdomen condition	IAH and VB	0.90	2016	K. Sripad
Biological Production Division	Study on methane emmission reduction using disease resistant techniques	DBT	9.39	2014	S.M. Byregowda

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU					
IWVR	Prevalence of gastrointestinal parasites of Captive Asian Elephants (*Elephas maximus*)	-	-	2016	K. Ganesh Udupa
IWVR	Study on urine constituents of Captive Asian Elephants (*Elephas maximus*)	-	-	2016	K. Ganesh Udupa
LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED					
LRIC (Deoni)	Field performance recording of Deoni cattle in Bidar District	KLDA, Bengaluru	60.00	2017	Vivek, M. Patil
LRIC (Deoni)	Updation of District Agriculture Contingency Plans	CRIDA, Hyderabad	1.50	2017	Vivek, M. Patil
LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA					
LRIC(S), Nagamagala	Mega Sheep Seed Project (Mandya Sheep) (ICAR funded project)	ICAR	27.26	2009	H.K. Siddalingamurthy
CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, BAGALKOT					
CRIC, Bagalkot	Livelihood Security through Mudhol hound rearing	SCP-TSP	300.00	2013	Mahesh, S. Dodamani
KPWD II Sujala-III	Support to livestock extension activities	World Bank	-	2015	Mahesh, S. Dodamani
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU					
FRIC, Hebbal	Development of Fish pond for demonstration, rearing of fish and production of fish for extension activities	NFDB, Hyderabad	23.94	2014	K.N.Prabhudeva
FRIC, Hebbal	Evaluation of water quality in lakes of Bengaluru city	LDA, Bengaluru	4.50	2014	K.N.Prabhudeva
FRIC, Hebbal	Survey on status of fish seed production, supply, demand and processing unit in Karnataka State	KFDC, Mangaluru	4.00	2014	K.N.Prabhudeva
FRIC, Hebbal	Demonstration of fish rearing under watershed programme in Chamaraja District	Sujala-III WDD	19.11	2014	K.B. Rajanna

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA					
FRIC, Ankola	All India Network Project on Mariculture	CMFRI Kochi	25.56	2015	E.G. Jayaraj
FRIC, Ankola	Dial feeding periodicity of Pearl Spot, *Etroplus suratensis* (Bloch) in Ankola (Bela) waters	Dept. of Agril., Karwar	1.45	2013	Mansingh Naik
FRIC, Ankola	To take up as an attempt to culture of Brackish water fishes (Mullet) alternative to shrimp farming.	Dept. of Agril., Karwar	1.50	2013	Mansingh Naik
FISHERIES RESEARCH AND INFORMAITON CENTER, BHUTNAL, VIJAYAPU RA					
FRIC, Bhutnal	KWDP- II (Sujala III) Project on support livestock and extension activities	Govt. of Karnataka	10.87	2014	Rajanna, K.B.
FRIC, Bhutnal	Production of stunted carp fingerlings for enhancing rural aquaculture production and to improve socio-economic status of fish farming community	SCP/TSP	4.00	2016	S. Vijayakumar
ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI					
AHP, Shiggaon	Livestock support and extension activities under Sujala 3, Gadag dist	World Bank	13.36	2014	Shivakumar, K. Radder

ABSTRACT OF ONGOING RESEARCH PROJECTS

#	*College /Institute*	*Research Projects*	
		Total Nos.	*Amount (Rs. Lakhs)*
1	Veterinary College, Bengaluru	36	429.41
2	Veterinary College, Bidar	23	203.55
3	Veterinary College, Shivamogga	22	269.63
4	Veterinary College, Hassan	24	193.81
5	Dairy Science College, Bengaluru	4	93.50
6	Dairy Science College, Kalaburgi	-	-
7	College of Fisheries, Mangaluru	16	329.24
8	Institute of Animal Health and Veterinary Biologicals, Bengaluru	21	1399.08
9	Institute of Wildlife Veterinary Research, Kodagu	2	-
10	Fisheries Research and Information Center, Bela, Ankola	3	28.51
11	Fisheries, Research and Information Center, Hesaraghatta, Bengaluru	-	-
12	Fisheries, Research and Information Center, Hebbal, Bengaluru	4	51.55
13	Fisheries, Research and Information Center, Bhutnal, Vijayapura	2	14.87
14	Livestock, Research and Information Center, Hallikhed, Bidar	2	61.50
15	Livestock, Research and Information Center, Konehalli, Tumkur	-	-
16	Livestock, Research and Information Center, Nagamangala, Mandya	1	27.26
17	Livestock Research and Information Center, Dornalli, Yadgiri	-	-
18	Canine, Research and Information Center, Thimmapur, Bagalkot	2	300.00
19	Animal Husbandry Polytechnic, Shiggaon, Haveri	1	13.36
	Total	**163**	**3415.27**

b) Research Highlights

VETERINARY COLLEGE, BENGALURU

Title: Development of new meat type crossbred sheep with exotic Dorper breed

Construction of sheep yard completed and awaiting for handing over from estate branch.
Purchase of two Dorper Rams is completed
Purchased a batch of 20 indigenous sheep and preliminary trials are in progress.

Title: Studies on molecular genetic diversity of reproductive trait gene in indigenous sheep

A comparative study on MTNR1A gene polymorphism between Mandya and NARI Suwarna sheep was carried out.
RsaI- RFLP analysis revealed no differences in polymorphic pattern of the MTNR1A gene between the above mentioned breeds.
Further studies on characterization of polymorphic pattern of DAZL gene in Mandya, Hassan and NARI Suwarna sheep breeds is in progress.

Title: Genetic Characterization of Mudhol breed of Dog using microsatellites

Characterization and analysis for Twenty two microsatellites *viz*., AHT137, AHTh171, AHTh260, AHTk253, CXX279, FH2054, FH2326, FH2848, INU005, INU030, INU055, PEZ03, REN162C04, REN247M23, REN64E19, INRA21, PEZ11, PEZ12, PEZ17, REN105L0, REN169D, REN169018 have been completed.
Characterization and analysis of additional 5 microsatellite markers is in progress.

Title: Studies on molecular genetic markers for traits of economic importance in crossbred cattle

Procurement of Chemicals and other laboratory supplies is in progress

Title: Studies on genetic polymorphisms of candidate genes for meat quality in Mandya sheep

Chemicals and laboratory consumables have been procured
Research activities initiated

Title: Association study of genetic variants at Single Nucleotide Polymorphism of the MBL 1 gene with mastitis in Holstein Friesen crossbred and Deoni cattle

The research work is approved by SCP and TSP Grants, 2016-17. Chemicals and biological reagents are procured. Work is in progress

Title: Promoting Health, Livelihood and Sustainable Livestock Systems; India Research Initiative on Peri-Urban Human-Animal-Environment Interface

A. Estimate the burden

Estimate the prevalence of M. bovis infection among livestock in small holder dairy farms in peri-urban areas.

Describe and quantity antibiotic use and asoociated levels of milk production, including testing of pooled milk samples for antibiotic residues

B. Describe the problem

Assess the drivers and farm-level risks of Bovine tuberculosis to workers, their families, animals and the larger community.

Identify drivers of antibiotic use at the farm, market and policy levels.

C. Identify policy targets

Inventory policies and farm practices in 3 different dairy producing regions in India.

Evaluate them against International practices to minimize the prevalence of M. bovis and antimicrobial use and the spread of resistance.

D. Knowledge-to-action: Develop and implement examples of best practices to demonstrate sustainable and locally relevant alternatives to reduce the risk of M. bovis and antibiotic use.

Title: Strengthening of Poultry farm at Poultry science Department, Veterinary College, KVAFSU, Hebbal, Bengaluru for empowerment of rural youth and rural women.

Distribution of 4 week old chicks to the beneficiaries initiated

Separate revolving fund to the project created

Title: Automation of Giriraja breeder house and Establishment of Hatcheries at constituent colleges of the University

Automation work through e-tendering initiated

Title: Performance of Commercial broilers supplemented with Processed Organic waste

In-vivo trial completed. Laboratory analyses and compilation of results is in progress.

Title: Study on the efficacy HimTOX to ameliorate toxic effects of mycotoxin in broilers

Production of Aflatoxin and Ochratoxin is in Progress.

Title: Develop and Evaluate Use of Mobile application for Cattle Farming: A New Generation Technology Transfer for Sustainable Dairy Production

Technical repository of information for cattle farming was completed and Evaluation by subject matter specialists.

Development of Audio Visual Mobile Application on Cattle production and testing its content was completed

Launching of the mobile App and studying its impact is under progress

Title: Dairy farmers Knowledge, Perception and Adaptation Measures towards Climatic Variability – An Exploratory study in Karnataka

Interview schedule construction to assess the Knowledge, Perception and to identify the Adaptation Measures towards Climatic Variability was completed.

Data collection completed

Analysis under progress.

Title: Flash based innovative technique as an aid in teaching Veterinary Anatomy

Two modules have been completed. The animated forelimb bone articulations have been depicted. The orientation of various forelimb muscles have been animated along with blood supply to these muscles. The second module on head region animation depicting the bones, muscles and their blood supply has been completed.

Title: Zero Formalin Technique For of Biological Specimens

The process of procurement of chemicals and other consumables requires for the project is in progress.

Title: Detection of Theileria organisms in ticks infesting sheep by PCR

A total of 128 ticks were collected from sheep infected with theileriosis belonging to Bengaluru urban (34), Chikkaballapura (48), Mandya (29) and Ramanagar (17) districts. The ticks were identified as *Haemaphysalis kutchensis* (54.46per cent), *H. intermedia* (15.62per cent), *H. bispinosa (*7.02per cent), *Rhipicephalus haemaphysaloides* (8.59per cent), *R. sanguineus* (7.81per cent) and *Hyalomma* spp.(6.25per cent) based on morphological characters. The ticks were dissected out and salivary glands were stored at -20^{0}C for further use.

Title: Dynamics of Epidemiological intelligence and risk factor analysis for Surra in Wild and domestic animals

Total of 107, blood sample of cattle, buffalo, sheep and goat from in and around forest area of Londa Kanapur, Sankeshwar and Belgaum. The blood smears of the animals, examined did not

reveal trypanosomes organisms. The blood samples are stored in -20^{0}C for further molecular diagnosis.

Title: Project on Diagnosis of Rabies and Anthrax in Animals: Outreach Programme on Zoonotic diseases.

Diagnosis of Rabies

Expressed RABV-G protein and characterized immunologically.
Standardized indirect ELISA by using Rabies virus G-antigen and pETRVL- G expressed protein for sero-monitoring of vaccinal antibodies against rabies in dogs.

Diagnosis of Anthrax

Identified *B. anthracis* from field samples collected during Anthrax outbreaks from Karnataka.
Molecular confirmation of the isolates using genes coding for protective antigen (PA) and capsule by polymerase chain reaction (PCR).

Standardized Co-agglutination test (CAT) for the detection of *B.anthracis antigen* in field samples.

Standardization and application of PCR for *B.anthracis* isolates by targeting PA gene

Lane M – 100bp
Lane 1-5-B.anthracis isolates
Lane 6-Staphyllococcus aureus (negative control)
Lane 7-No template control

Title: 'Studies on prevalence of *Arcobacter* sp. (Emerging food-borne pathogen) in foods of animal origin'.

I. Collection of Samples

A total of 50 chicken meat samples were collected from retail outlets in Bengaluru.

II. Isolation studies

The chicken meat samples were homogenized and inoculated into *Arcobacter* enrichment broth/CAT broth and incubated at 28°C under microaerobic conditions.
The enriched samples were streaked onto the CAT agar plates and incubated at 28°C for 48-72 hrs under microaerobic conditions for isolation of *Arcobacter* spp.
Suspected *Arcobacter* colonies (showing translucent to whitish, 2-4mm diameter, convex and opaque colonies with entire edge) showing characteristic helical, curved or S-shaped morphology and were sub-cultured onto solid media and incubated at 28°C under aerobic condition for 48-72 hrs to get pure culture.

Out of 50 chicken meat samples screened, 09 (18 per cent) samples were found positive for *Arcobacter* sp. by cultural method.

Title: Studies on clinico-pathology and molecular diagnosis of paratuberculosis in small ruminants

Faeces, serum and tissues were collected from paratuberculosis suspected field cases (sheep and Goat), slaughter house and culled animals infected with paratuberculosis from organized farms.

680 serum samples were collected from sheep from an organized Bannur sheep farm, Mandya District. Indirect ELISA was carried out to find out sero prevalence of disease. Out of 680 serum samples, 121 were sero positive with prevalence rate of 17 per cent.

Post-mortem examination of 60 culled sero positive animals were carried out. Gross and histological lesions were recorded.

Out of 60 cases, 15 animals showed typical gross lesions such as intestinal corrugations and thickening with chording of mesenteric lymphnodes.

The histological lesion consisted of microgranuloma with infiltration of mono-nuclear cells such as macrophages and lymphocytes in intestines and lymphnodes.

The organisms were demonstrated by acid fast staining of impressions smears and tissue sections.

Finally IS 900 PCR was carried out to confirm the paratuberculosis

Title: Studies on Pharmacokinetics and Biodistribution of Azithromycin in broiler chickens

Results are yet to be concluded

Title: Safety and Efficacy evaluation of paclitaxel nanoparticles in mammary tumor induced rats

Yet to start

Title: Induction of lactation in unproductive animals

The project is initiated and the results are awaited.

Title: Validation of ethnoveterinary practices in the management of common ailments of livestock

The project is just initiated and the results are awaited.

Title: Studies on Epidemiological, Clinical aspects of Leptospirosis in Dogs

To evaluate the role of predisposing factors for leptospirosis in dogs
To analyses hematological and biochemical parameters associated with leptospirosis
To study sonographic changes in liver and kidney of leptospira confirmed dogs
To study routine farm managemental practices of milk production collect data on knowledge attitude of farmers in identified farms
To analyses hematological parameters
To study prevalence of bovine tuberculosis of small farms located at peri urban Bengaluru

Title: Studies on bovine Tuberculosis in small dairy holdings at Peri-urban area of Bengaluru

Over the period of last four months 2442 cases of various gynaecological disorders in dogs were presented to the dept of VGO and vaginal leiomyoma was diagnosed in 22 cases.
The age at which it was first diagnosed has varied between 7.2 years to 16.6 years and the breeds in which it was presented were

- Laborador Retriver (4 animals),
- German Shepherd (4 animals),
- Spitz (9 animals),
- Mogrel (5 animals).

Every animal in which leiomyoma was diagnosed exhibited multiple growths. The clinical signs included constant licking of the vulva, serosanguinous vaginal discharge and perineal bulging.

Title: Characterization and prognostic evaluation of embryonic stem cell signature in canine mammary neoplasia

Collection of data pertinent to occurrence of mammary tumor has started and selected cases of mammary tumor are subjected for thoracic and abdominal radiography, ultrasonography and in few cases regional lymph node biopsy are taken. Post surgical survival period and relapse of tumor is being monitored

VETERINARY COLLEGE, BIDAR

Title: Study the Safety and Immunogenicity of Tetanus toxiod Vaccine in animals

The Tetanus toxiod Vaccine Received from IIl Hyd ,March 2017 , the animals for vaccination will be done in the month of may 2017, Other Serological tests will be conducted after 0^{th} day and 30^{th} day interval

Title: Studies on Mange infestation in donkeys in and around Bidar

Sixty per cent of the objective mandates have been achieved with utilization of the budget allotted.

Total of 56 Skin scrapings of donkeys with skin disorders were screened for mite infestation in and around Bidar

Title: Epidemiological Study on shedding pattern of *E. coli* O157:H7 in Deoni *vis a vis* exotic cattle breed

In the first project, microbial isolation of *E. coli* O157:H7 from 300 samples (150 each from Deoni and exotic breeds) has been completed. Of the 300 samples 47 samples (35 from exotic breeds and 12 from Deoni) were positive for *E. coli* O157:H7. Molecular identification and confirmation of the isolates by using latex agglutination and multiplex PCR is yet to be carried out.

Title: Detection and quantification of antibiotic residues in chicken meat using microbiological and HPLC assays from Hyderabad-Karnataka region

In the second project, 54 meat samples collected from bidar district were subjected to microbiological assay of which 23 samples found to be positive for the presence of antibiotic residues

Title: Validationof ethnoveterinary practices in the management of common ailments of liverstock

Sixty per cent of the objective mandate has been achieved with utilization of the budget allotted. Planning organisation coordination and implementation to achieve the objectives within six months as most of the herbs are available during rainy and winter season .Validation of Etrhnoveterinary practices *in-vivo* shall begin from June

Documentation of Common Ehnoveterinary practices followed for common ailments of animals have been recorded from the state of Karnataka and across the country and database of veterinary herbals and plants have been compiled and process of manual printing under process.

Procurement of Basic Chemicals and Glassware for establishment of facilities for the scientific validation of the various herbs/herbal formulations obtained during the various documentation works is completed.

Herbal museum and Herbal garden have been established in the college, with collection of the powders and planting of the herbs will be done in the coming rainy season in June.

Many NGO's working in the field of Ethno veterinary Practices for various farmer communites of animal husbandry sectors were also contacted and information gathering along with documentation work is under progress.

Identified Ethno veterinary Practioners in Bidar District and conducted documentation workshop (Videography and Photography).Twenty Three Ethnoveterinary Practioners participated and gave their inputs pertaining to various Ethno Veterinary Practices that are being practiced by them.

Title: Therapeutic management of infertile animals and organizing infertility treatment camps for AI synchronized by use of CIDR in crossbred cows and buffaloes in Bidar district

All the required medicines and supplements were procured through Director, Dept. of AHVS.

Trained 50 Veterinary officers along with 100 Para veterinarians from the Dept. of AHVS, Bidar regarding Estrus Synchronization methods using CIDR and methods to improve conception rate at field level.

A total of 25 infertility camps were conducted in three different taluks covering around 1200 animals of Bidar district.

Infertility camps for Basava Kalyan taluk were completed.

Currently follow-up and further infertility camps in other taluks of Bidar district is under progress.

Title: Induction of fertile Estrus in Anestrus Local Ewes in Bidar District

All required medicines and feed has been procured and full budget has been utilized.

Clinical trial needs to be initiated.

Title: Two kidding per year program in Goats

All required medicines and feed has been procured and full budget has been utilized.

Clinical trial needs to be initiated

Title: Application of Anti-luteolytic strategies in treating repeat breeding cows

Completed the clinical trial in 50 animals, presently sample analysis and result compilation is under progress.

Title: Support to Livestock and Extension Activities in Bidar District under Sujala-III

Abstract of Sujala-III Project Activities

Activities	*Location*	*Target*	*Achieved*	*Remarks*
Awareness programmes/ workshop on Identified Intervention	GP Level	8 Nos.	09	
	District Level	1 Nos.	01	
On Farm Demostrations (OFD)				
Summer management of buffaloes	Village Level	4 Nos.	03 (In progress)	
Enrichment of dry fodder/ Management of calf (Cont..)	Village Level	14 Nos.	14	
Silage making by using silo bags	Village Level	8 Nos	08	
On Farm Trials (OFT)				
On-farm trials in goats during transition period	Village Level	10 Nos	10 Nos.	
Participatory Research				
Detection and control of sub-clinical mastitis	Village Level	4 Nos.	05	
Production Units				
Establishment of fodder nurseries (Minimum of 5 varieties in 2 guntas)	Village Level	2 Nos.	03	
Introduction of Rams/Bucks	Village Level	10 Nos. Bucks	13 Nos. Bucks	
Value addition of milk - Preparation of milk products	Village Level	2 Nos.	02	
Other Activities				
Promotion of *Sesbania* as fodder for livestock	Village Level	--	2 (In progress)	

Title: A study of the performance of Nari Swarna x Kenguri crossbreds

No. of lambings n= 75
Sex ratio : 1 : 1.8
Mean birth weight (kg): 2.84
Mean birth weight of male lambs (kg): 2.96
Mean birth weight of female lambs (kg): 2.72

Title: Characterization of Bidri and Nandidurga goats of Karnataka

Survey was conducted in Chitradurga, Challakere and Hiriyur taluks of Chitradurga district for Nandidurga goats; and in Bidar, Bhalki and Humnabad taluks of Bidar district for Bidri goats. Information on morphological, Socio economic, management and performance parameters was collected in 20 flocks from 6 villages on Nandidurga goat and 11 flocks of Bidri goats. There was uniformity and purity within both populations of goats. 50 random blood samples from unrelated

goats were collected for both populations from their respective breeding tract. DNA has been isolated and quality and quantity has been verified.

Nandidurga goat: Total goat population of breeding tract was 6.6 lakh. Average flock size was 29.6 (12-93). Flocks were stationary. Goats were housed in kutcha sheds during night only. Goats are raised on grazing only with no supplementation. Coat colour is white. Eyelids are brown or black. Ears are leafy and pendulous. Goats are not milked and reared for meat only. Twining is common. Adult weight varies from 30 to 50 kg in males and 26 to 40 kg in females.

Bidri goat: Total goat population of breeding tract was 5.2 lakh. Average flock size was 74.3 (21-130). Flocks were stationary. Goats were housed in kutcha open sheds during night only. Goats are raised on grazing only. Coat colour is Black. Muzzle, eyelids and hooves are black. Horns are present. Ears are pendulous. Goats are reared for meat only. Twining is common. Adult weight varies from 31 to 47 kg in males and 24 to 40 kg in females.

VETERINARY COLLEGE, SHIVAMOGGA

Title: e-Varaha: Info rmation System for Safe Pork Production in North Eastern India

Development of Decision Support System for pig/ pork is under progress.
Development of image analysis system for the identification of *Ascaris suum* in pig feces is under process.

Title: Isolation and characterization of bacteriophages specific to pathogenic bacteria in livestock

Isolation of bacteriophage is under process

Title: **A systematic documentation of the pathological conditions in captive wild animals in and around Shivamogga**

The work on this project began during 2014-15. The current year 2016-17 is the third year of work in this project. The area covered are in and around Shivamogga that come under the Shivamogga Wildlife Division, Tyavarekoppa Lion Safari and Sakrebylu forest area , and Bhadra Reserve forest, Shettihalli range forest, Balehonnur forest, Kumsi range forest and also Chikmagalur wildlife division.

Several cases of wild captive animals received for post mortem examination at Veterinary College, Shivamogga have been subjected to various types of investigations in support of diagnosis of pathological conditions. Gross pathological, histopathological, cytopathological, microbiological and in some cases haematological investigations are being carried out.

During the year 2016 (March-April to December), necropsy cases have been documented viz., Sambar deer, Indian Rock Python, Peahen, Peacock, Silver crested Pheasants (male and female), Kite and Leopards. In free range, fatal cases of Spotted deer (two numbers), Gaur and Tigers (two) have been documented. Few of them were forensic cases.

Title: Characterization and prognostic evaluation of embryonic stem cell signatures in canine mammary neoplasia

Objectives:

To document and characterize embryonic stem cell markers in canine mammary tumours
To study the prognostic relevance of embryonic stem cell markers in canine mammary tumours.

Title: Development of Scaffold Technology for Industrial Progress, Societal Benefit and Environmental Safety

Preparation of decellularized ECM(bioscaffold) from the fresh hallow organ matrix of food animals by modified decellularization method (Sealed Transmural Osmotic Flow) using 0.5 per cent fresh bile instead of synthetic detergents, for complete removal of the cells but without changing the quality of ECM's native structure after decellularization.

Title: Upgrading the facilities in the area of meat processing including establishment of mini abattoir and quality control

Objectives:

Creating infrastructure in the Department of Livestock Products Technology, which includes creation of facilities like establishment of slaughter line for sheep, goat and poultry.
Hands-on training to Undergraduates, Butchers, Veterinary Officers, meat Inspectors, interested entrepreneurs and Meat industry persons in the new facilities on recent technologies in the post-harvest technology.

Progress Made:

The construction of slaughter house for sheep and goat has completed and sheep slaughter instruments were installed and made functional

Instruments *Viz.,* Deep freezer, Incubator, Electrical fryer, visi cooler, hot air oven, gas fryer, meat storage trolleys with SS container, Poultry scalding machine, Insect killer, ramp and ladder, procured under 2nd instalment (Rs. 37.5 Lac) were installed and made functional

The purchase of remaining instruments (*Viz.,* Texture Analyser, Meat band saw, Modified atmosphere packaging unit, UV-Vis sphectrophotometer, Laminar flow and Refrigerator etc. is under e-Tender procurement process.

Title: Livestock support and Extension Activities

Workshops on identified interventions.
On- Farm demonstrations on enrichment of dry fodder, Ballanced feed, Silage making using silo bags.

Participatory research to improve SNF and Fat, Detection and control of sub clinical mastitis.

Production unit: Establishment of fodder nurseries, Establishment of rural hatchery units, Wool cording and Value addition of milk – preparation of milk products.

On- farm trials in goats on transition period.

Feeding regime based on body condition score for monitoring reproductive cycle.

Title: A study on the effectiveness of homeopathic complex in chronic mastitis in Cattle and Buffaloes.

The animals under trial were divided in to three groups. First group will be treated with *Calcarea fluoria* (200 potency, 40 size pills.) drug. Under this group totally 06 animals were treated. In the second group commercial homeopathic preparations (Teatasule fibro gold Kit, Goel vet Pharma UP) were using. Since the drug was recently procured one animal was treated and the results are awaited. In the third group the animals will be treated with allopathic medications. And no trials were conducted till now. The project will be continued.

Title: Prevalence, Haematology and Biochemical aspects of Anaplasmosis in Cattle in and around Shivamogga

Blood sample were collected from catttle in and around Shivamogga.

Blood smear examination done.

Hematology and biochemical analysis done.

ELISA test performed.

Interpretation of results done.

Appropriate statistical analysis done.

PCR to be performedfor identification of Anaplasma species.

Title: Establishment of Food Rheology Laboratory

A State-of-the-Art Food Rheology laboratory has been established. Oscillatory Rheometer and Water Activity Meter have been purchased and are being put to use. All other necessary equipments will be procured through e-tender. Trials are being taken with Rheometer and Water Activity Meter by the Post Graduate and Doctoral Students. The facilities in the laboratory are being used for research and training purposes.

Title: Establishment of Food Processing Training Centre

Food Processing Training Center has been established and methods of preparation of various bakery products have been standardized. The module for training programmes for the dairy farmers and entrepreneurs has been prepared and the training programmes will commence very soon.

Title: VTCC network project on Dairy Microbes

A total of 20 numbers of phenotyped lactic acid bacterial isolates are given for gene sequencing for confirmation of the identity and results awaited. Domestic *dahi* samples of 6 numbers, 3 each from Dharmapuri and Salem of Tamilnadu are collected and subjected to plating to isolate the lactic acid bacteria. Phenotyping of total number of 10 lactic isolates obtained from *dahi* samples is now in progress.

Title: Studies on the therapeutic properties of the fermented milks incorporated with oats (*Avenca satvia*)

Optimization of *dahi* using different levels of *dahi* cultures (1, 1.5 and 2 per cent), different levels of oat- cow milk blends (10:80, 20:80 and 30:70) and different levels of beta glucan (0.3 per cent, 0.6 per cent and 0.9 per cent) and control without beta glucan or oat milk. Maximum scores were observed for *dahi* prepared using 20: 80 levels of oat milk: cow milk blends, 1.5 per cent of *dahi* culture and in case of beta glucan incorporated *dahi*, 1.5per cent culture and 0.6 per cent of beta glucan levels.

Further, the composition of the optimized oat-milk –cow milk *dahi*, beta glucan incorporated *dahi* and control *dahi* was determined. All the *dahi* samples showed nonsignificant difference with respect to moisture, protein and fat.

Therapeutic properties of *dahi* like *in vitro* antioxidant property were studied. Antioxidant activity of control *dahi* was significantly lower than the oat milk – cow milk blended *dahi* as well as beta glucan incorporated *dahi*. However, antioxidant potential of latter was significantly higher than the former.

Glycemic response of the formulated *dahi* samples were studied using feeding experimental rats with formulated *dahi* samples and standard rat feed mix for a period of 5 weeks. After 5 weeks, the blood glucose was reduced and remained constant in all the groups of rats fed with control and formulated *dahi* samples. Blood glucose content reduction was significantly lower in case of rat groups fed with formulated *dahi* samples.

Antimicrobial activity of the control and formulated *dahi* samples was tested against *Stahylococcus aureus*, Salmonella species and *E. coli*. None of the *dahi* samples showed inhibitory effect on their growth.

Storage studies of the formulated *dahi* indicated retention of acceptability up to 6 days .The products did not show any growth of coliform throughout the storage period and yeast and mold up to 3 days which were within standards prescribed.

COLLEGE OF FISHERIES, MANGALURU

Title: All India Network Project on Mariculture

a. Broodstock development and hatchery technology of sand whiting (*Sillago Spp.*)

The work on broodstock development sand whiting from wild caught juveniles was continued during the period under report. The fish were reared in a probiotic system (*Lactobacillus acidophilus*) in batches for a period of 60 to 90 days and conditioned to accept specially formulated artificial feeds developed at the centre and then transferred to brood stock rearing ponds 0f 800 sqm for further rearing to adult size of 80 g size. As of now excellent maturity both in male and female has been observed as evidenced below.

For spawning an *in situ* breeding technique in earthen pond has been designed wherein the brood fish shall be held in earthen pond till they attain maturity and spawned in specially fabricated spawning cage installed in the same brood fish pond itself as the fish are too sensitive to handling and transfer to another environment which would result in resorption of gonads.

b. Broodstock development and hatchery technology of milk fish (*Chanos chanos*): Collection and conditioning.

The work on broodstock development of milk fish is in progress in second stage brood fish rearing ponds with 1600 sqm water spread area. The brood fish have grown over 1.60 kg at the end of 2nd year of rearing with commercial floating feed with protein not less than 30 per cent.

The gonadal examination of milk fish revealed thin thread like milky white gonads at immature stage.

c. Fish seed resource survey and establishment of fish seed bank along Uttara Kannada, Udupi and Dakshina Kannada Districts.

A total of 22 fish seed survey were conducted to assess the availability of seed of prioritized fish species along the coast of Uttara Kannada District. Rich resources of sand whiting, mullets, pompano and barracuda are available for establishing fish seed collection banks.

Title: Evaluation of efficacy of Mangala Setright and Mangala Borosan on water quality and fish production

Mangala Borosan showed better growth performance in carps at dosage of 25 kg per ha. At this dosage, water quality parameters were maintained optimum range in the fish ponds. In case of Mangala Setright, a dosage of 150 kg per ha showed better growth performance in carps and water quality parameters were well maintained at this dosage.

Title: National Surveillance Programme for Aquatic Animal Diseases (Freshwater)

Fish samples from active surveillance districts namely Mysuru, Mandya, Shivamogga, Ballari, Koppala and Raichur are collected and screened for Koi Herpes Virus and Spring Viraemia of Carps. All samples are reported negative. Training programme on importance of disease surveillance in aquaculture were conducted for the department officials and fish farmers of Mysuru and Mandya districts.

Title: Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point off Padubidri

In this monitoring project, assessment of physical, chemical and biological parameters of seawater near the vicinity of effluent discharge point, as well as bioassay studies were carried out. During the study the coastal water quality was in the vicinity of effluent discharge point of UPCL in the Arabian Sea assessing water, sediment, plankton and benthos. Report submitted to the sponsoring agencies every month.

Title: Monitoring of pollution impact by discharge of treated effluents from BASF, Mangaluru

This monitoring project was aimed at assessing physical, chemical and biological parameters of seawater near the vicinity of effluent discharge point from BASF.

The coastal water quality in the vicinity of discharge of point of BASF in the Arabian Sea was monitored by assessing water quality, sediment, characters and composition of plankton and benthos. Report submitted to the sponsoring agencies every month.

Title: Ecological monitoring of Arabian Sea receiving effluents from MCF Ltd.,

Assessment of physical and chemical parameters of seawater near the vicinity of effluent discharge point of the fertilizer industry was monitored. Seasonal and temporal variation of phytoplankton, zooplankton and benthic organisms and bioassay studies on the receiving water was performed.

The study monitored the coastal water quality in the vicinity of discharge point of MCF in the Arabian Sea by assessing water quality, sediment, characters and composition of plankton and benthos. Reports were submitted to the sponsoring agencies every month.

Title: MSEZL Marine Outfall Discharge Point in the Arabian Sea, Mangaluru

Assessment of physical, chemical and biological parameters of seawater near MSEZL discharge point was monitored. During the study, the coastal water quality was monitored in the vicinity of discharge point of MSEZL in the Arabian Sea assessing water, sediment, plankton and benthos. Report was submitted to the sponsoring agencies every month.

Title: INCOIS - Influence of oceanographic parameters on plankton assemblage and pelagic fisheries using Satellite data along the coast of Dakshina Kannada and Udupi Districts of Karnataka

The objectives of the study were validation and propagation of Potential Fishing Zone (PFZ) advisories of INCOIS, assessment of oceanographic parameters in relation to plankton assemblage, to study the food and feeding habits and population characteristics of commercially important pelagic fishes, to correlate the oceanographic parameters with pelagic fishery, to ascertain the breeding seasonality of commercially important pelagic fishes

The study indicated oil sardine catch positively correlated with Chl-a concentration, Good catch of sardine recorded in Mangaluru and Malpe harbour from October- 2014 to December-2014 and October- 2015 to December-2015. Sea surface temperature showed negative correlation with sardine catch and positive correlation with mackerel catch. Catch of mackerel and sardine negatively correlated. Salinity negatively correlated with pH and dissolved oxygen of water and positively correlated with water temperature. An increased fish catch was observed in the PFZ area as compared to Non-PFZ's area. Validation experiments conducted using trawler showed higher catch in predicted areas. In Sardine (*Sardinella longiceps*), 78 per cent of the fishes from PFZ had full stomach distension indicating better availability of food at PFZ with fully digested greenish mass as major diet while only 35 per cent from non-PFZ had full-stomach distension. Macrel (*Rastrelliger kanagurta)* harvested from PFZ fed extensively on smaller pelagic and 76 per cent of

the fishes from PFZ had full stomach and partially digested teleosts were visible. PFZ data provided by the INCOIS have proved to be a useful tool in enhancing the fish catch.

Title: Bioassay and soil analysis

Bioassay experiments were conducted on monthly basis on treated effluent samples supplied by Sequent Scientific Limited, Baikampady, Mangaluru using common carp. (*Cyprinus carpio L*) and monthly reports have been submitted to the sponsoring agency regularly.

Title: Inventorying of mangroves associated flora and fauna: Need for co-management for conservation and sustainable utilization based on satellite imagery and GIS along Dakshina Kannada Districts of Karnataka

Field survey of the mangorove ecosystem along Dakshina Kannada and Udupi districts (along Lat. 12.85.7 N and Long. 74.86.76 N E to 13.55.134 N and 74.35.511 E) was carried out. A questionnaire was prepared to collect the data of demographic features and biodiversity survey of fauna and flora. Collected fauna and flora were identified to species level using standard taxonomic keys *viz.* Fishes of India, FAO identification sheets, Integrated Taxonomic Information System (ITIS) standard report (http://www.itis.gov), Fish Base (http://fishbase.org) and other reference books. Mangrove density and area was established using GPS. Mangrove distribution, change pattern etc are recorded using Secondary information from department of forests, dept. of fisheries, revenue dept. and remote sensing images. The available data is processed using GIS.

Title: Sustaining livelihood security in rural women of Dakshina Kannada - integrated livestock and fisheries production

The project is implemented in Beltangady taluk of Dakshina Kannada district. The target groups are women who are small and marginal farmers, unemployed and willing to take all the 4 enterprises like ornamental fish culture, piggery and rearing goats and poultry birds. Based on the comprehensive survey of available natural, physical and human resources. 4 villages (Nada, Kanyadi, Mundur and Savanalu) were selected from the 2 gram panchayaths Nada and Melanthabettu. The criteria for the selecti.on of villages within the panchayath were total number of BPL families, influence of naxalite movement and infrastructure development. As per the stratified random sampling procedure, 5 beneficiaries from each village, a total of 20 beneficiaries who are willing to undertake all the identified 4 enterprises were selected. Later, family background, demographic profile, resource endowment, education level and entrepreneurial skills of all the 20 selected beneficiaries were assessed.

Title: DBT – Bioinformatics –Distributed Information Sub Centre (DISC)

The following activities were conducted by the bioinformatics centre.

a. A case study of ciguatera fish poisoning in Mangaluru, India

Ciguatera fish poisoning (CFP) is the human intoxication caused by consumption of fish which have accumulated ciguatoxins (CTXs). Two individuals of a family developed suspected ciguatera poisoning after consuming unknown fish purchased from a local market in Mangaluru.

For identification of fish from its remnants, the fish meat DNA was subjected to 16S and COI DNA barcoding and sequenced. Using bioinformatic tools the sequences were analysed and the fish confirmed to be *Lutjanus bohar*. A mouse bioassay study detected high levels of CTX in the implicated fish and mice injected with toxin showed typical symptoms of CTX. This is a first case report of CFP due to consumption of *L. bohar* in India.

b. DNA barcoding of fishes:

Fish species belonging to the genus *Nempiterus* (Thread fin breams), *Sardinella* (sardines), *Coilia* (anchovies), *Cyanoglossus* (soles) and *Synaptura*sp prevalent along Mangaluru coast were identified using the DNA barcoding technique. The cytochrome oxidase I and 16S RNA genes of mitochondrial DNA was used in fish phylogenetics. Universal primers as well those designed by us were used in amplifying the COI and the 16s rRNA genes, the products which was sequenced and subjected to bioinformatics analysis.

c. *In silico* studies of shrimp white spot syndrome virus

The available whole genomes sequences of WSSV was screened for the presence of protein domains involved in ubiquitination process. Sequence analysis and structural modelling showed WSSV to possess several of these domains, homologous to similar proteins in eukaryotes. Wet lab studies for studying the expression of these proteins during the virus infection process is in progress.

The WSSV proteins have been studied for the presence of transmembrane domains using bioinformatics tools. The transmembrane proteins identified have been studied for their orientation and characterized.

d. Studies on *Vibrio vulnificus* associated with seafoods

V. vulnificus isolated from clam (*Meretrix meretrix*) procured from local markets were genotyped using the 16S rRNA and vcg typing methods. The 16S rRNA and *vcg* gene sequences were sequenced and subjected to bioinformatics analysis. Genotyping identified the isolates to be of type 16S rRNA typeB and *vcg*C type respectively. Analysis of representative 16S rRNA and *vcg* gene sequences further substantiated that the *V.vulnificus* associated with clams to be of clinical origin, implicated as virulent type responsible for causing infection in humans.

Title: National Surveillance Programme for Aquatic Animal Diseases: Surveillance of shrimp diseases in coastal Karnataka.

Shrimp samples and pond water was collected regularly every month along the coastal Karnataka from shrimp culture farms and the samples were transported to the laboratory. The samples were tested for the presence of DNA viruses such as white spot syndrome virus (WSSV), monodon baculovirus (MBV), hepatopancreatic parvovirus (HPV), infectious hypodermal and hematopoietic necrosis virus (IHHNV) and RNA viruses such as taura syndrome virus (TSV), yellow head virus (YHV), infectious myonecrosis virus (IMNV) and other emerging pathogens causing acute hepatopancreatic necrosis disease (AHPND) and enterocytozoonhepatopenaei

(EHP). The results were documented and monthly and quarterly were sent to the NBFGR, Lucknow.

The farmers were informed about the results of analysis of samples, disease status and in few cases suggested them for the emergency harvest of their crop because of WSSV infection. Further, passive surveillance was also undertaken by carrying out pathogen analysis of shrimps provided to us at our laboratory by shrimp farmers. Baseline data information for 125 new shrimp farms was collected along the coastal Karnataka and uploaded to the database of National Surveillance programme for aquaculture and animal diseases (NSPAAD).

Title: Novel molecular approaches for advancing prediction and mitigation of disease outbreaks in aquaculture for small scale farmers

Three different culture systems were selected for the study. This included,

Extensive system: Natural system involves trapping different fish species during high tide and harvesting during low tide, Intensive Shrimp culture system: *Litopenaeus vannamei* cultured employing modern practices and Freshwater culture system: Involves culture of Indian major carp i e *Labeo rohita (rohu)*

The water quality parameters from different culture system are being assessed regularly for predicting disease risk. Histology for diagnostic pathology is being standardized. cDNA extraction from source water and incubation samples will be collected and processed for amplicon sequencing.

Title: Isolation and characterization of bioactive compounds from marine bacteria

Marine bacteria are emerging as a significant source of bioactive molecules in the recent years. But only a few studies have been conducted on marine bacteria, particularly from tropical environments. In this study, 12 sediment samples were collected from each sampling station which includes Surathkal, Someshwar, Ullala and Mangrove areas. The samples were subjected to bacteriological analysis using spread plate technique. Plates showing isolated colonies were replica plated to screen for the production of antimicrobial substances. Two indicator bacteria were used for the screening: *Staphylococcus aureus* as a representative of Gram positive bacteria and *Vibrio harveyi* as representative of Gram negative bacteria.

A total of 57 bacteria with antimicrobial property were isolated. Of these, 19 were from Someshwar, 12 from Surathkal, 11 from Ullala and 15 from mangrove area. These were subjected to a battery of biochemical tests for identification. Among them 48 were identified as *Bacillus* spp and 9 as *Pseudomonas* spp.

Further screening of the 57 isolates based on the zone of inhibition led to the selection of 8 isolates that showed significant antimicrobial activity against test strain. The optimum growth conditions for these isolates are being standardized for the maximum production and scaling up of antimicrobial substances. The active compounds from these isolates will be subjected to purification processes and will be used for conducting biological assays. The active inhibitory compounds thus obtained will be tested for their action against fish and shell fish pathogens.

Title: Development of therapeutic phage consortia to manage *Aeromonas hydrophila* infection in aquaculture systems

The project funded by DBT, Govt. of India is newly sanctioned on 13/02/2017 and the work is just initiated.

Title: All India Coordinated Research project on Post-Harvest Technology

1. Production of fish oil concentrates rich in omega-3 fatty acids

This work is aimed at quantifying and characterizing lipid recovered wit pH shift method and determination of effeivemess of lipase assisted hydrolysis on the concentration of EPA and DHA in fish oil. The work has been initiated where in sardine fish oil was separated by pH shift methos and is being compared with the oil separated by conventional method. The GC analysis of the oil is pending for want of instatllation of GC unit.

2. Development of small scale fish meat picking unit and its performance evaluation

To develop the efficient fish meat picking machine the working design of the existing meat picking machine was used as referee and new machine devised involving hydraulic and rotary screw press. Designing and fabrication was outsourced to a private fabrication unit in Bengaluru. However, the performance of the equipment was not upto the mark and hence discarded. A New approach involving rotary rail mechanism is in progress.

Title: An Assessment of Ecological-Economic Benefits of Estauries in Karnataka, India

Based on the preliminary workshop conducted during first phase of the work, consultation with expert, following research issues have been identified for further detailed work.

Ecological-Economic and livelihood aspects of sand mining and bivalve-fishery production in the estuary: To develop an ecological-economic model, to quantify how the depletion of bivalve catch is a function of sand mining, water quality parameters, bivalve harvests and other parameters.

Revisiting coastal wetlands (Gazni land) by keeping earlier research (Bhatta et al., 1998) paper as a base: Mapping of the entire gazani area to know the developments since 1995 in terms of land use and land cover changes, area under shrimp farming, area under rice cultivation, built up area, etc. and link it with the changes in the profitability of different emerging enterprises.

Economic valuation of bivalve production through livelihood approach : Instead of looking at the value of bivalve as market price of the harvested quantity, we may look at the loss of livelihood (employment, women's role, income and migration)

Impact analysis of proposed port development project on different activities such as salt, rice, etc.

As part of the research study a comprehensive survey of two livelihood activities were completed namely crab fisheries and bivalve fisheries present status, threats and potential prospects for restoration and conservation were analysied.

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

Title: All India Co-ordinated Research Project on Animal Disease Monitoring and Surveillance

Objectives:

The main objectives of the research project are as follows:

Effective updating of NADRES with active disease data and climatic and non-climatic risk factor.
Investigation of endemic, emerging and remerging animal disease out breaks using innovative technologies.
Strengthening of national livestock serum respository.
Seromonitoring of animal disease based on sampling plan.
Analysis on economic losses due to animal disease and control measures adopted for their management

Details of the Outbreaks, Attacks and Deaths due to Notifiable disease in the State during 2016-17

#	*Disease*	*OB's*	*Attacks*	*Deaths (per cent)*
1	Anthrax	37	282	282(100)
2	Blackquarter	36	271	144(53.13)
3	Haemorrhagic Septicemia	30	2141	551(25.73)
4	Enterotoxaemia	29	1925	839(43.58)
5	Peste des Petits Ruminants	17	826	283(34.26)
6	Sheep and Goat Pox	34	1045	302(28.89)
7	Bluetongue	2	57	29(50.87)
8	Rabies	0	0	0
9	Brucellosis	2	22	0
10	Classical swine Fever	1	25	20(80)
11	Mycoplasmosis	9	413	122(29.53)
Total		**197**	**7007**	**2572(36.7)**

Title: All India Co-ordinated Research Project for Epidemiological Studies on Foot and Mouth disease

Objectives:

1. To conduct systematic epidemiological studies on Foot and Mouth disease in Karnataka and to assess the incidence in relation to;
   a) Population profile.
   b) Agro-Geo-Climatic distribution.
   c) Occurrence of different types and sub types of virus.
   d) Duration and dynamics of outbreaks, and
   e) Susceptibility and economic losses.

2. To assess the role of various factors associated with origin, course and development of the outbreaks of the disease.
3. Serosurveillance of FMD in the Karnataka state under National FMD Sero-surveillance programme.
4. Seromonitoring of vaccinal immunity against FMD virus serotypes O, A, Asia-1 under FMD control programme for the state of Karnataka.
5. To monitor the incidence of FMD in well organized farms where regular vaccination is undertaken and to collect, compile and analyze the data of such organized farms to evaluate the efficacy of the vaccines and the factors associated with the perpetuation of FMD virus in the region.
6. To apprise the authorities of the state Animal Husbandry Department, Field Veterinarians and livestock owners concerning the disease situation and suggest prophylactic programmes and strategies for the control of the disease.

Completed Objectives: Progress made

PROGRESS REPORT OF FOOT AND MOUTH DISEASE BENGALURU REGIONAL CENTRE DURING THE PERIOD 2016-17

Months	No.of incidence	Virus identified in FMD incidence	No.of clinical samples processed	Virus type identified				No.of pre/post and DIVA vaccinal serum samples processed	Total no. of samples processed
				O	A	Asia-1	VNR		
April-16	-	-	-	-	-	-	-	-	-
May-16	-	-	-	-	-	-	-	-	-
June-16	-	-	-	-	-	-	-	-	-
July-16	-	-	-	-	-	-	-	360	360
Aug-16	-	-	-	-	-	-	-	900	900
Sept-16	-	-	-	-	-	-	-	3240	3240
Oct-16	-	-	-	-	-	-	-	-	-
Nov-16	01	O	07	02	-	-	05	1620	1620
Dec-16	-	-	-	-	-	-	-	-	-
Jan-17	21	O	49	38	-	-	11	-	49
Feb-17	18	O	36	25	-	-	11	564	600
Mar-17	12	O	59	16	-	-	43	756	815
Total	**52**	**-**	**151**	**81**	**-**	**-**	**70**	**7440**	**7591**

Title: Southern Regional Disease Diagnostic Laboratory

Objectives:

To serve as Regional Referral Laboratory for economically important livestock diseases (bacterial, viral, parasitic etc.), any drug/pesticide residue and toxicities by providing diagnostic services (both primary and confirmatory) to the states of the region.

To maintain a data bank on the epidemiology of the economically important diseases of the region and circulate to all the states on a periodic basis.

Collection and transmission of all isolates of viral, bacterial and parasitic agents to the National Repository at National Reference Laboratory.

To follow the approved standard reagents and techniques for generation of the diagnostic results.

To train scientists/officers from the State Diagnostic Laboratories of the region in the state of the art technology for diagnosis of animal diseases and provide consultancy and expert services to the states of the region.

To undertake identified special programs for disease surveillance/diagnosis as per the direction of Government of India from time to time in view of its epidemiological significance and importance etc., Bovine Spongiform Encephalopathy (BSE), Scrapie, Contagious Equine Metritis (CEM), Highly Pathogenic Avian Influenza etc.

Any data generated by the RDDL could be published only after prior permission from DAHD.

Progress made so far:

During the year under report April 2016 to March 2017

Samples were analyzed at Diagnostic Pathology.
Samples were analyzed at Diagnostic Parasitology.
Samples were analyzed at Diagnostic Bacteriology and Mycology.
30998 samples were analyzed at Diagnostic Virology.
23119 samples were analyzed at Sero epidemiology.
1385 amples were analyzed at Biochemistry and Toxicology

A total of 64636 samples were analyzed at SRDDL in different sections.

Title: Standardization and production of species specific antisnake venom from chicken eggs

Objectives:

Generation of species-specific ASV in chicken egg.
Extraction and purification ASV antibodies from egg yolk.
Detection and Quantitation by ELISA
Toxicological safety studies in lab animals.

Progress made:

Procurement of snake venom from all 4 species of snake has been done from The Irula Snake Catchers Industrial Co-Operative Society, Tamil Nadu.

A pilot scale poultry housing 40 layers aged 20 weeks has been setup at KVAFSU poultry farm.

Immunization of these chickens with species snake venom has been carried out after formulating the snake venom in suitable adjuvants.

Booster dose administration has also been completed.

Eggs are being collected and stored in the cold room for further processing.

All the arrangements for the ASV extraction from eggs are through and once extraction is complete other related tests will be carried out, which will be carried out shortly.

Setting up of lab for conducting the research on ASV extraction from eggs.

Title: Development and Evaluation of Pentavalent Bluetongue vaccine for sheep and standardisation of rapid diagnostics for early detection of Bluetongue

Objectives:

Isolation of virus in cell culture from blood samples from field outbreaks.
Identification of virus by using PCR.
Design of specific primers for BTV isolates.
Validation of primers for their specificity.
Real time PCR for rapid diagnosis.
Standardization of developed pentavalent vaccine and its trials in field condition by sero monitoring.
Raising hyper-immune sera and study of cross reactivity study.
Standardization of indirect- ELISA.

Progress made:

BTV serotypes 1, 2, 10, 16 and 23 have been passaged in BHK21 cell line for pentavalent vaccine standardization.
The passaged virus has been Titrated, Inactivated with BEI and Blended**.**
Primers for BTV-9, BTV-11, BTV-15 and BTV-22 have been procured and it will be checked in Hissar, Haryana agricultural university.
Hyper-immune sera have been raised in sheep. This can be utilized for cross reactivity study of vaccine strains.
Primes for serotyping i.e, BTV 3, 4, 5, 6, 7, 8, 12, 13, 14, 17, 18, 19, 20, 21 and 24 have been designed. Yet to be procured.
Monoclones for BTV diagnosis are being developed
Development of pentavalent vaccine is under progress

Title: Ultramodern laboratory facility for production of vaccines against sheep diseases and zoonotic diseases

Objectives:

Establishment of ultra modern vaccine production for the vaccines against sheep diseases and zoonotic diseases

Progress made:

Land identified for the establishment of facility. Proposals for civil construction by Karnataka housing board submitted to government of Karnataka
Preliminary discussions were held for the designing of the lab as per CGMP and user requirements were conducted

Title: Modification of animal challenge facility for testing vaccines as per GMP

Objectives:

Establishment of Animal challenge facility for testing of vaccines as per GMP so as to carry out regulatory tests for vaccines.

Progress made:

Land has been identified and User requirements finalised.

Approval for Tender is obtained and further tendering for Design and execution of animal challenge facility is under progress.

Title: Livestock methane reduction through immunization based approaches

Objective:

Formulation of Species specific vaccine(s) for the active immunization of Cattle

Progress made:

Initial culture work has been started.

Prepared Standard operating procedures and standardized the culturing techniques for the anaerobic cultures

Title: Screening for Genetic Disorders in Breeding Bulls in Karnataka State

Objectives:

To develop infrastructural facility for diagnosis of genetic disorders at the Institute.

To screen the breeding bulls of semen stations for genetic disorders in Karnataka state.

Genetic characterization / Karyotyping of young bulls meant for breeding purposes in Karnataka state.

Progress made: :

During the financial year 2016- 17 a total of 156 DNA samples were processed from blood samples by different DNA Isolation technique and preserved for further processing. All 156 DNA samples were subjected to PCR-RFLP technique and screened for genetic disorders like BLAD, BC, DUMPS and FXI deficiency in breeding bulls. Regarding the Karyotyping for chromosomal abnormalities, standardization of protocol has been done using 63 heparinised blood samples from different species till date. The regular karyotyping for newly introduced breeding bull calves have been carrying out in all Karnataka Breeding bull Farms. A total of 9 samples have been processed and 7 samples are under processing.

Title: Development of bicistronic DNA vaccine for Classical Swine Fever with GM-CSF as a molecular adjuvant

Objectives:

To clone and evaluate CSF E2 as an immunogen.

To clone, express and characterize porcine GMCSF.

To construct a bicistronic messenger producing DNA vaccine with E2 and GMCSF genes using FMDV IRES.

To evaluate the construct as a vaccine candidate in vitro and in vivo studies.

Progress made:

Designed primers for E2 specific region.
PK-15cells infected with CSFV vaccine virus.
Isolated RNA from the infected cells and synthesised cDNA.
Amplified E2 specific gene and cloned into TA vector.
Clone confirmed by RE digest and sequence analysis.

Title: Providing Equipments to Disease Diagnostic Laboratory Bagalkot (Bagalkot Dist), Kolar (Kolar Dist), Sira (Tumkur Dist) and Sirsi (Uttara Kannada Dist)

Outcome:

Laboratories have been Established during 2013-14
Equipments have been purchased
Staff for the said laboratory is by deputation of veterinary officer from Dept of AH and VS, Govt of Karnataka and parastaff (Technicians and Attenders) through out sourcing
New laboratory building are being constructed at Sira, Kolar and Sirsi

Title: Development of combined sheep pox and peste des petitis ruminants' vaccine for small ruminants

Objectives:

Developing a cost effective combined Sheep pox and PPR vaccine
Standardization of the dose for the vaccine
Evaluation of the vaccine for sterility, safety and potency.
Evaluating the immune response of combined SP and PPR vaccine under laboratory conditions.
Evaluating the immune response of combined SP and PPR vaccine under field conditions

Progress made:

Vaccine is prepared and needs to be evaluated for immune response

Title: Standardization of dose reduction of H S vaccine

Objectives:

Production of HS vaccine by fermentation technology
Standardization of dose reduction from 5 ml to 2 ml by following parameters as per IP standards:
- Nephlometric or turbidometric readings
- Biomass – dry weight of the culture
- Colony forming units per ml of the culture

To evaluate the dose reduced vaccine under experimental conditions.
To evaluate the dose reduced vaccine under field conditions.
To study the immune response by PHA, ELISA.

Progress Made:

Production and standardization of dose reduced HS vaccine
Safety, sterility test done and found to be safe and sterile.
Potency test done in rabbits and mice and found to be potent.
Evaluation of vaccine in rabbits and in calves.
Study of humoral immune response by PHA.

Title: Standardization of dose reduction of Black Quarter vaccine

Objectives:

Production of BQ vaccine by fermentation technology
Standardization of dose reduction from 5 ml to 2 ml by following parameters as per IP standards:

- Nephlometric or turbidometric readings
- Colony forming units per ml of the culture

To evaluate the dose reduced vaccine under experimental conditions.
To evaluate the dose reduced vaccine under field conditions.
To study the immune response by PHA, ELISA and Flow cytometry.

Progress Made:

Production and standardization of dose reduced HS vaccine
Safety, sterility test done and found to be safe and sterile.
Potency test done in rabbits and mice and found to be potent.
Evaluation of vaccine in rabbits and in calves.
Study of humoral immune response by PHA.

Title: Development and evaluation of HS and BQ combined vaccine using alum as an adjuvant by fermentation technology

Objectives:

Production of HS and BQ combined vaccine
To evaluate the vaccine under controlled conditions
To evaluate the vaccine under field conditions
To study the immune response by PHA and ELISA

Progress Made:

Production and standardization of dose reduced HS and BQ vaccine
Safety, sterility test done and found to be safe and sterile.
Potency test done in rabbits, mice, G. Pig and found to be potent.
Evaluation of vaccine in rabbits, G. Pig and in calves.

Title: Establishment of Hematological and biochemical profile of Deoni of cattle

Objective:

To establish normal haematological reference values for Deoni breed of cattle

To establish normal serum biochemical reference values for Deoni breed of cattle

Screening for genetic disorders

Progress Made:

In all fifty five blood samples with and without antigcoagulant were collected from Deoni breed of animals across Bidar district taking representation from all the taluks.

Hematological analysis of the samples is completed.

Biochemical analysis of the samples is completed.

Statistical analysis is in progress.

Title: Establishment of Hematological Profile of Malnadgidda breed of cattle

Objective:

To establish the normal hematological reference values/profile for Malnad Gidda breed of cattle.

Screening for genetic disorders.

Progress Made:

109 samples have been collected from Uttara Kannada district taking representation from all the taluks.

Hematological analysis of the 109 samples is complete.

Statistical analysis is in progress.

Title: Study of the hematological and serum biochemical profile of calves affected with pot belly / pendulous abdomen condition

Objective:

To establish haematological profile of pot belly condition in Malnad Gidda breed of cattle.

To establish serum biochemical profile of pot belly condition in Malnad Gidda breed of cattle.

To ascertain parasitic load in calves affected with pot belly/pendulous abdomen condition.

Progress made:

Sample collection from all the taluks of Uttara Kannada district and laboratory analysis of the same is in progress.

1. Screening for Sexually Transmitted Diseases, carried out during 2016-17:

Sl. No.	*Scientists Involved*	*Date and Place*	*Disease suspected*
1	Dr. Shankar	30.8.2016 and 31.8.2016 Veeravalli, Vijayawada, Andrapradesh	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
2	Dr. Shankar	01.09.2016, Vijayawad	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
3	Dr. Shankar Dr. T.S. Lohith	3.10.2016 to 6.10.2016 LBTC Dharwad	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
4	Dr. R, Sudha Rani Dr. S. Rashmi	29.11.6 to 02.12.16 FSBS, Vizag	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
5	Dr. B.M. Chandranaik Dr. B.P. Shivashankar	13.02.2017 to 18.02.2017 ECBS, Eachenkottai, Tanjavur, Tamilnadu.	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
6	Dr. T.S. Lohith Dr. N. Chandrashekhara	13.02.2017 to 18.02.2017 KLDB, Dhoni, Kerala.	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
7	Dr. R. Sudharani Dr. S. Rashmi	30.1.2017 to 2.2.2017 Banavasi, Andhra Pradesh.	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
8	Dr. B. P. Shankar	29.1.2017 to 2.2.2017 Vijayawada, Andhra Pradesh.	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
9	Dr. B.M. Chandranaik Dr. T.S. Lohith	17-01-2017 to 20-01-2017 KLDB, Kolathupuzha, Kerala	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
10	Dr. M.D. Venkatesha Dr. B.P. Shivashankar Dr. T.S. Lohith	10-01-2017 to 13-01-2017 DLF, Hosur, Tamil Nadu	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
11	Dr. B.P. Shankar Dr. T.S. Lohith	310.2016 to 6.10.2016 LBTC, Dharwad	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
12	Dr. Shankar Dr. Shivaraj	22.12.2016 SSCC, Hesaraghatta	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
13	Dr. Shankar	26.1.2016 SLBTC, Hesaraghatta	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD

14	Dr. R. Sudharani Dr. S. Rashmi	28.2.16 to 3.3.16 FSBA, Nandhya	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
15	Dr. Shankar Dr. Shivshankar	17.3.17 CFSPTI, Hessaraghatta	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
16	Dr. R. Sudharani Dr. S. Rashmi	13.3.17 to 16.317 NJF, Ooty	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
17	Dr. B.P. Shivashankar Dr. T.S. Lohith	14.3.17 to 17.3.17 DLF, Ooty	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD
18	Dr. B.P. Shankar Dr. Shivraj	17.3.17 to 17.3.17 Nandini Sperm Station Karnataka	TB, Johne's disease, Brucellosis, Trichomoniasis, camphylobacteriosis, IBR and BVD

2. Training programmes organized at SRDDL during 2016-17

#	*Name of the Scientist*	*Date and Place*	*Title of the Training Organized*
1	Dr. S.M. Byregowda, Dr. M.D. Venktesh, Dr. M. Shivraj, Dr. Lohith, Dr. Chandrashekar, Dr. Sudharani, Dr. Amitha Reena Gomes, Dr. Sangannagowda	02-05-2016 to 13-05-2016 SRDDL, IAH and VB	SRDDL, Bengaluru Training programme "Basic Veterinary Epidemiology" USDA-APHIS SRDDL,IAH and VB
2	All Scientists of SRDDLL	19.9.2016, IAH and VB	SRDDLL, IAH and VB, Workshop, Brucellosis, IAH and VB
3	All Scientists of SRDDLL	20.12.2016, SRDDL, IAH and VB	Training on collection of brain samples for diagnosis of BSE
4	All Scientists of SRDDLL	22.12.2016 to 23.12.2016, SRDDL, IAH and VB	Application of time micro PCR technology in STD screening

LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA

Title: Mega Sheep Seed Project (Mandya Sheep) (ICAR funded project)

Preliminary survey was done for updating of flock status in the home tract area of Mandya sheep.

Strengthened conservation of Mandya sheep in the form of *in-situ* conservation by establishing elite Mandya sheep seed flock as nucleus breeding unit at LRIC(S), Nagamangala, KVAFSU, Mandya (Dist), Karnataka.

The overall goal of MSSP-MS is genetic improvement of Mandya Sheep through selective breeding and supply of elite breeding rams to the beneficiary farmers and conservation of elite germplasm in the form of In-situ conservation.

Since inception of the project, 727 farmers have been registered and grouped under one of the six working centers (grouped 1060 to 5446 sheep per center) that are under operation in the home tract of Mandya sheep.

During the financial year ending 31st March, 2017, 50 elite breeding rams have been distributed to the beneficiary farmers in the field to cover 2103 breedable ewes.

Since from the inception of the project a total of 283 elite breeding rams that were born and raised at the farm were distributed to the identified 292 farmers in the home tract to cover their 10,339 breedable ewes.

A total of 279 breeding ewes and 10 elite breeding rams are being maintained for the purpose of breeding and production of elite germplasm at the farm.

Tupping and lambing per centage based on ewe available basis was found to be 97.07per cent and 92.89per cent, respectively, whereas the lambing per centage on tupped basis was at 97.03 per cent.

Live body weight during 2016-17 at birth, 3 - month, 6 - month, 9 - month and 12 -month of age were recorded to be 2.10 ± 0.01, 10.62 ± 0.07, 15.14 ± 0.10, 17.30 ± 0.10 and 21.14 ± 0.17 kg, respectively.

The fleece yield was documented as 273.29 ± 7.79 and 268.66 ± 6.15g for first six month and adult six month fleece yield, respectively.

Performance of the distributed breeding rams and their progeny from beneficiary flocks at field level is being monitored on regular basis.

A total of 3470 progenies were born to the distributed elite rams in the beneficiary field flock.

Live body weight of the progenies of distributed rams during the period 2016-17 at birth, three, six, nine and twelve months of age were recorded to be 2.07 ± 0.01, 10.49 ± 0.03, 15.47 ± 0.03, 17.48 ± 0.04 and 21.27 ± 0.09 kg, respectively.

The growth performance of the progenies of the distributed ram has been showing improvement from year to year in all the age groups over the average of base population.

Awareness program to beneficiaries regarding silage making, straw enrichment and proper utilization of fodder and other feed resources.

Encouraging the progressive farmers regarding breed conservation.

Oestrus synchronization and Artificial Insemination in the ewes maintained at farm and field.

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

Title: Prevalence of gastrointestinal parasites of Captive Asian Elephants (*Elephas maximus*)

A total of 63 faecal samples from captive elephants belonging to Elephant camp Sakrebail and Elephant camp Dubare were collected and examined for the presence of parasitic eggs.

Title: **Study on urine constituents of Captive Asian Elephants (*Elephas maximus*)**

A total of 11 urine samples from apparently healthy captive elephants from Elephant camp Sakrebail have been analysed by urine analysis using Urine analyzer.

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

Title: All India Network Project on Mariculture

I. *Sillago sihama*

Developed probiotic holding and rearing system for rearing juvenile fish
Developed feed for rearing juveniles and broodstock fish
Achieved captive maturation of gonads both in male and female fish

II. *Chanos chanos*

Broodstock development in progress and the fish has attained a weight in the range of 1.5 to 1.8 kg.
Gonadal maturation has shown immature growth, thin thread like.

III. Fish seed resource survey for establishing seed bank

The fish seed survey revealed prioritized fish species like sand whiting, paampano, mullets and red snapper along the coast of Uttara Kannada Dist.

IV. Participatory cage culture

1. One training programme on open sea cage aquaculture has been conducted and 41 fishermen participated in the programme.

2. a) To study the feeding ecology in order to minimize the wastage of feed and optimize the growth.
b) Utilization of vast brackish water area of Karwar coast for pearl spot culture and to encourage the individual farmers for the culture of pearl spot.

3. Growth and survival of Brackishwater fishes (mullets) in shrimp ponds (farm ponds).

CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, BAGALKOT

Title: Livelihood Security through Mudhol hound rearing

Pups distributed to 244 beneficiaries (229 male + 258 female = 487 puppies) along with Puppy food and calcium and vitamins supplements.

Hundred dogs have been micro-chipped and registered with Kennel Club of India in Collaboration Mysuru Kennel Club Bengaluru and Society for Indian Breeds of Dogs, Bengaluru.

The beneficiaries are being educated regarding the care and management of puppies, pregnant animals and whelped animals.

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

Title: Livestock Support and Extension Activities under Sujala 3, Gadag district

Awareness among farmers is created regarding chaffing of fodder, fodder enrichment, fodder nursery, low fat and SNF problem in milk, sub-clinical mastitis, supplementary feeding during late gestation etc.

At four villages four fodder nurseries are established.

Fifteen on farm demonstrations on fodder enrichment are conducted. Twenty five farmers adopted urea ammoniation of straw. Twenty five farmers have adopted direct urea feeding with straw.

Thirty three per cent animals found to be positive for sub-clinical mastitis.

Lift designed for downer cows has been successful with five animals out of seven tried.

3. Research Collaborations / MoUs:

(i) List of MOU's signed by the University at International Level

#	Institutions involved in MOU	Date of MOU	Details Regarding MOU	Remarks
COLLEGE OF FISHERIES, MANGALURU				
1	University of Exeter, United Kingdom	29.06.2016	MOU signed as part of Indo-UK, DBT-BBSCR Aquaculture project titled Novel molecular approaches for advancing prediction dn mitigation of disease outbreak in aquaculture for small scale farmers. This 3 years project funded by Department of Biotechnology, Govt. of India is operated by Dr. M.N. Venugopal as Principal Investigator at the College of Fisheries, Mangaluru	-

(ii) List of MOU's signed by the University at National Level

#	Institutions involved in MOU	Date of MOU	Details Regarding MOU	Remarks
VETERINARY COLLEGE, SHIVA MOGGA				
1	ICAR-National Research Centre on Pig, Guwahati	11.06.2016	Facilitation of collaborative research	Executed for the functioning of the ITRA sponsored eVaraha project
2	National Research Centre, Pigs Guwahati	2016	e-Varaha: Information System for safe pork production in Eastern India – Pig Parasites	
3	Indian Institute of Technology, Guwahati	2016	e-Varaha: Information System safe for pork production in Eastern India – Pig Parasites	
VETERINARY COLLEGE, HASSAN				
1	Karnataka Livestock Development Agency	24.01.2017	Filed performance recording and herd registration of Hallikar cattle breed project with budget outlay of 55 lakhs for 3 years	
DAIRY SCIENCE COLLEGE, BENGALURU				
1	Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar through it constituent	23.01.2017	Installation of 30 MTPD Milk Powder Plant at DHAMUL, Dharwad. Establishing Modern Milk Powder Plant by way of	Work is in progress.

	Institute Dairy Science College (DSC), Hebbal, Bengaluru; and Dharwad, Haveri, Gadag and Uttar Kannada District Co-Operative Milk Producers' Societies Union Ltd. (DHAMUL) Dharwad		economical designing and extending engineering consultancy services by DSC, Bengaluru @ 1 per cent of total project cost of Rs.26,50,00,000/=	
CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, BAGALKOT				
1	RVC, Meerut, Lucknow	12.02.2017	Induction of Mudhol Hound Dogs into Indian Army	

4. Patents: - Nil -

5. Technology Developed:

VETERINARY COLLEGE, BENGALURU

Utilization of maize cob and husk as roughage component in complete feed block for feeding small ruminants under intensive production system.

The novel technique of preserving the biological specimens by Plastination method is being developed utilizing Environmental Pollutants for the first time in the country.

Conferred Centre for Innovative Science Education (CISE) award by Vision Group of Science and Technology, under Department of Science and Technology, Government of Karnataka, to the tune of 30 lakhs for a period of three years. The project approved is "Flash based innovative technique as an aid in teaching Veterinary Anatomy". The first installment of Rs.10.00 lakhs was released for operation of the project.

Hip Implants for total Hip replacement for dogs.

VETERINARY COLLEGE, HASSAN

Preparation of value added concentrate feed blocks for economical chevon production.

Preparation of total mixed ration using maize cob byproduct for dairy cattle.

Leguminous fodder tree seed treatments and tree fodder seedling production has been standardized. The same may be included in the package of practice for further practice by the farmers.

DAIRY SCIENCE COLLEGE, BENGALURU

Phenotyping of lactic acid bacteria are optimized by the Department of Dairy Microbiology.

6) (a) Awards/Recognitions

#	*Name of the Scientist*	*Award*	*Year*	*Agency*
VETERINARY COLLEGE, BENGALURU				
1	T.M. Prabhu	Fellow of Animal Nutrition Association	2016	Animal Nutrition Association of India
2	S.B. Prasanna	Recognized as Key Driver for Animal Welfare	2016	World Animal Protection, Bangkok, Thailand
3	Y.B. Rajeshwari	NAKULA	2016	KVA, Bengaluru
4	Y.B. Rajeshwari	Certificate of Appreciation	2016	IAWV-KC, DAHandVS and KVC
5	Mahadevappa, D. Gouri	Certificate of Appreciation	2016	ACAW, Annual Key Driver Workshop, World Animal Protection, Kaula Lumpur, Malaysia
6	Pavan Belakeri, K. Satyanarayan and V. Jagadeeswary	Best Paper Award	2016	12th Kannada Science Congress
7	Pavan Belakeri, K. Satyanarayan, Jagadeeswary, S. Yathiraj, K.C. Veeranna and Y.B. Rajeshwari	Best Paper Award	2016	KVA- 2016 Technical Symposium
8	V. Jagadeeswary	Certificate of Excellence	2016-2017	International Journal of Livestock Research – Member of Scientific Advisory Board
9	K. Satyanarayan	Certificate of Merit	2017	KVAFSU
10	Pavan Belakeri, K. Satyanarayan, V. Jagadeeswary, S. Yathiraj, K.C. Veeranna and Y.B. Rajeshwari	Best Paper Award	2017	8th National Extension Education Congress
11	Dhoolappa, R.V. Prasad and K.V. Jamuna	Session- Oral Presentation, Dr. G. Rajeshwar Rao Memorial Award and Medal	-	-

12	Ganga Naik , R.V. Prasad and K.V. Jamuna	Session- Dr. Md. Hafeezuddin Silver Jubilee Medal and Award for Best Paper in Gross Anatomy	-	-
13	D. Rathnamma	Reviewer Excellence Award	16th November, 2016	Agricultural Research Communication Centre (ARCC) Journals -Indian Journal of Animal Research and Asian Journal of Dairy and Food Research.
14	A. K. Santosh Ph.D. Scholar	Best Poster Presentation Award	9th to 10th July, 2016	18th National Conference of Association for Prevention and Control of Rabies in India (APCRI) held at Bengaluru
15	R. Sharada Ph.D. Scholar	Best Oral Presentation Award	9th to 10th July, 2016	*18th National Conference of Association for Prevention and Control of Rabies in India (APCRI)* held at Bengaluru
16	N. Kavya	Prof. M.K. Shingatgeri Memorial Young Scientist Award	2016	VIth Conference of Society of Toxicologic Pathology-India
17	N. Vijayakumar	Best Poster Award	2016	VIth Conference of Society of Toxicologic Pathology-India
18	Jagadeesh, S. Sanganal, Prem Kumar and C. Ravikumar	Best Poster Award	2016	ISVPT-2016, "Animal Health and Production: Challenges and Opportunities in Veterinary Pharmacology and Toxicology", 23rd-25th November, 2016, Navsari
19	L.V. Lokesh, Jagadeesh, S. Sanganal, S. Yogesh Gowda and Shekar	Best Poster Award	2016	STOX-2016, "International Conference on New insights and Multidisciplinary Approaches in Toxicological Studies", 03rd-05th August, 2016, Amity University, New Delhi.
20	C. Ravikumar, Jagadeesh, S. Sanganal, H.D. Narayanaswamy, U. Sunilchandra and C.R. Santhosh	Best Oral Presentation Award	2017	ICASVM 2017, 19th International Conference on Animal Science and Veterinary Medicine. Paris, France, February 23rd-25th, 2017.

21	Jagadeesh, S. Sanganal	Reviewer Excellence Award	2016	ARCC Journals, ICAR, New Delhi
VETERINARY COLLEGE, BIDAR				
1	S.M. Usturge	Life Time Achievement Award	2016	12th Kannada Science Congress, KVAFSU, Bidar
2	Laxman Naik, B.G. Ravindra, Vinay Tikare, Shrikant Kulkarni, Siddalingaswamy Hiremath, Vivek. R. Kasaralikar and N.A. Patil	Best Poster Presentation	2017	Indian Society for Veterinary Medicine
3	Vinay, P. Tikare	Certificate of Excellence in Reviewing	2016	International Journal of Livestock Research
4	Vinay, P. Tikare	Advisory Board Member for IJLR Journal	2016	International Journal of Livestock Research
5	D.T. Naik	Best Poster Presentation Award	2016	IAVP
6	J. Adeppa	Young Scientist	2016	2nd year VIRA awards, Annual Research Meet at Chennai
7	J. Adeppa	Certificate of Appreciation	15th-17th Feb., 2017	Participated in JP Dubey Young Scientist Award in IAAVP Conference at Shivamogga
8	D. Dilipkumar	Young Scientist Award	2016-17	Swadeshi Vignyana Andolana, Kannada Vignyana Sammelana Karnataka
9	G.K. Megha, B. Bhagavantappa, B.V. Shivaparakash, D. Dilipkumar and D. Jahangir	First Prize for Best Clinical Case Presentation Award by UG student	2016-17	TANUVAS, Madras Veterinary College, Chennai
10	B.G. Ravindra, Yallappa Ingle, Shivamurth Vakare, Anantrao Desai, Trupti and N.A. Patil	Best Poster Presentation – First Place	2017	Indian Society for Veterinary Medicine
11	B.G. Ravindra, Harish Kulkarni, Shivamurthy Vakare and P.K. Patil	Best Oral Presentation – Third place	2017	Indian Society for Veterinary Medicine
12	B. Ramachanadra	Certificate of Excellence	2016	International Livestock Research Journal

13	Prakashkumar Rathod	Editorial Board Member, IJVSBT	2017	Indian Journal of Veterinary Science and Biotechnology
VETERINARY COLLEGE, SHIVAMOGGA				
1	K.J. Ananda	Received Young Research Forum Award	2016	International Conference on Medical Parasitology and Zoology at Houston, Texas, USA 17 to 19 October 2016.
2	K.J. Ananda	Certificate of Recognition for Review Article Presentation	2016	International Conference on Medical Parasitology and Zoology at Houston, Texas, USA 17 to 19 October 2016.
3	K.J. Ananda	Smt. Nishamani Parija Memorial Oration Award	2017	Indian Association for the Advancement of Veterinary Parasitology during 26th NCVP and International Symposium
4	K.J. Ananda	Best Poster Award for "Studies on *Dirofilaria repens* infection in dogs of Mangaluru regions of Karnataka"	2017	During 26th NCVP and International Symposium under the aegis of Indian Association for the Advancement of Veterinary Parasitology, at Veterinary College, Shivamogga
5	K.J. Ananda	Best Poster Award for "Diagnosis and Management of tick bites in humans due to *Haemophysalis spinigera* in Kyasanur Forest disease endemic regions of Shivamogga"	2017	During 26th NCVP and International Symposium under the aegis of Indian Association for the Advancement of Veterinary Parasitology at Veterinary College, Shivamogga
6	K.J. Ananda	Best Poster Award for "Babesiosis in cross breed Jersey cattle and its confirmatory diagnosis by polymerase chain reaction"	2017	During 26th NCVP and International Symposium under the aegis of Indian Association for the Advancement of Veterinary Parasitology at Veterinary College, Shivamogga
7	Dhoolappa Melinamani	BIRAC-SRISTI-2016 Grant Award	4th May, 2016	Biotechnology Industry Research Assistance Council (BIRAC)-SRISTI (Society for Research and Initiatives for Sustainable Technologies and Institutions), Dept of Biotechnology, GOI

8	Dhoolappa Melinamani	BZZWINGS-2016 (2nd Prize)	24.09.2016	NSRCEL ,IIM Bengaluru
9	Dhoolappa Melinamani	Dr. G. Rajeshwar Rao Memorial Award and Medal	21st-23rd Dec., 2016	XXXI IAVA National Symposium, Hyderabad
10	Dhoolappa Melinamani	CAMTech X: Jugaad-a-thon-2017 (3rd Prize)	11th-12th, March, 2017	Consortia for Affordable Medical Technologies, (CAMTech), Massachusetts Genaral Hospital In association with Manipal University, Manipal
VETERINARY COLLEGE, HASSAN				
1	M.S. Vasanth	Life Time Achievement ward	2016	12th Kannada Science Congress, KVAFSU, Bidar
2	M.S. Vasanth	S.S. Mishra Award for Best Paper published in Journal of Small Animal Practice	2017	Indian Society for Advancement of Canine Practice at Pantnagar, Uttarkhand
3	H.S. Madhusudan, H. Dhanalakshmi, K. Hemanth Gowda, P.S. Banakar and C.D. Dharnesh	Best Poster-2nd Prize	2017	ISSGPU, ICAR-CSWRI, Avikanagar
4	B.C. Girish	II Prize in oral presentation	February, 2017	National conference Trends in cancer research under one health concept, Organised by Dept of VSR, College of Veterinary Science, Tirupati
5	R. Jayashree	Best Paper	22nd-23rd May, 2016	Karnataka Veterinary Association at Bengaluru
6	R. Jayashree	Best Oral Presentation	17th-19th January, 2017	Indian Society of Animal Genetics and Breeding at IVRI, Izatnagar
7	S. Ganga Naik	Best Paper Award	2016	Indian Association of Veterinary Anatomists (IAVA)
8	M. Nithya Priyadarshini, K. Kavitha, M. Veena, H. Dhanalakshmi, V.Awathanarayanappa and D.R. Manjunath	Third Best Clinical Case Presentation	2016	TANUVAS, Chennai, Tamilnadu
9	S.P. Manjunath, H. Dhanalakshmi, C.T. Chandregowda and Placid E. D'Souza	Third Prize for Oral Presentation	2017	IAAVP, National congress of Veterinary Parasitology

10	C. Ravikumar	Best Oral presentation Award	2017	ICASVM-2017 Paris, France
11	N.S.S. Unit	National Young Leader Programme Award	2015-16	Ministry of Youth Affairs and Sports, Government of India
COLLEGE OF FISHERIES, MANGALURU				
1	Gangadhara Gowda	Diploma and Silver Medal for an outstanding contribution in the field of teaching and research in Fisheries	2016	International Biographical Centre, Cambridge, England
2	Gangadhara Gowda	Listed in 2000 Outstanding Intellectuals of the 21st Century,	2016	International Biographical Centre, Great Britain
3	M.N. Venugopal	KVAFSU Merit Certificate	2016	KVAFSU
4	E.G. Jayaraj	KVAFSU Merit Certificate for bring extramural funding	2016	KVAFSU
CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, BAGALKOT				
1	Mahesh, S. Dodamani	Breed Saviour Award 2015	2015-16	Kamalnayan Jamnalal Bajaj Foundation
2	Mahesh, S. Dodamani	Achiever Award 2016	2016-17	Society for Advancement of Human and Nature (SADHNA), Dr YS Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh
3	Ramanna, V. Gasti Farmer of Mudhol	Breed Saviour Award 2016	2016-17	Kamalnayan Jamnalal Bajaj Foundation

(b) Research Incentives

#	Name and Designation of the P.I	Title of the Project	Funding Agency and Status	Date of Sanction	Duration	Cost of Project (Rs. in Lakhs)
I) Project(s) worth of Rs. 100.00 lakhs and above (Rs. 15000 + Certificate of Merit to PI)						
-	-	-	-	-	-	-
II) Project(s) worth of Rs. 50.00 lakhs and up to Rs. 100.00 lakhs (Rs. 10000 + Certificate of Merit to PI)						
1	P.I.: Anjan Kumar, K.R. Veterinary College, Shivamogga (VCS) Co-P.I.: Sundreshan, S., VCS Raviraidurg, VCS L. Ranganath, VCH and Srikrishna Isloor, VCH	Characterization prognostic evaluation of embryonic stem cell signature in canine mammary neoplasia	SERB – DST	2016	-	55.00
III) Project(s) worth of Rs. 25.00 lakhs and up to Rs. 50.00 lakhs (for PIs only) (Rs. 5000 + Certificate of Merit to PI)						
1	Nadeem Fairoze, DI (PGS)	Promoting Health Livelihood and Sustainable Livestock Systems: India Research Initiative on Peri-urban Human – Animal Environment Interface	PHFI – New Delhi	2015	-	32.83
2	E.G Jayraj and Chandrkanth Lingdhal, FRIC Ankola	AINP – Mariculture	CMFRI – Kochi	2015	-	25.57
IV) Project(s) worth of Rs. 5.00 lakhs and up to Rs. 25.00 lakhs (Certificate of Merit to PI)						
1	K. Satyanarayan, Professor and Head Dept. of VAHE. VCH, Bengaluru	Develop and Evaluate Use of Mobile Applications for Livestock Farming: A New Generation 'Technology Transfer Sustainable Livestock Production	ICAR	2016	-	9.20

7) Important decisions taken during 11th Research Council Meeting held on 28.06.2016 at KVAFSU, Bidar

1. Hon'ble Vice-Chancellor and Chairmen of the Research Council emphasized the need based and farmer oriented research need to be undertaken in the University. Periodical review of all the projects should be done by the Heads of the Divisions/ADR/DR for its expected outcome. He expressed that the University Scientists should know the availability of crop residues in a particular year to overcome the fodder scarcity especially during the draught period in the state.

2. For this a committee at University level may be constituted involving Heads of Animal and Poultry Divisions as Chairman and other Heads of Divisions as Members.

3. He Complemented the Nutritionists of the University for coming out of the innovation of making complete ration feed blocks and use of spineless cactus as nutritious diet for small ruminants.

4. He suggested conserving the indigenous breeds viz. Malnad Gidda Cattle, Hassan breeds of sheep, and Nandidurg breeds of sheep beside the recognized indigenous breeds of our state.

5. He also suggested for making the OSD KVAFSU, Bidar and ADR Bengaluru responsible for liasoning with the Department of Animal Husbandry regarding Research projects approved by the government agencies.

III. EXTENSION

The University is striving hard to improve the socio-economic conditions of the farming community through its extension education activities. In order to achieve this, the university is organizing training programmes, demonstrations, farmer-scientist interaction sessions, field visits, farm melas etc, through its constituent colleges and research stations spread across the state.

1. Conferences/Trainings/Workshops/Seminars organized

i) International Level

a) Conference:

#	*Date*	*Place*	*Title*	*Organized by*
VETERINARY COLLEG, SHIVAMOGGA (VCS)				
1	15.02.2017 to 17.02.2017	Veterinary College, Shivamogga	Current Concepts in Diagnosis and Control of parasitic diseases to combat climate change	Dept. of Veterinary Parasitology, Veterinary College, Shivamogga
VETERINARY COLLEG, HASSAN (HVC)				
1	24.02.2017 to 25.02.2017	Hassan Veterinary College	19th Asian Regional Meet of Commonwealth Veterinary Association and International Conference on "Control of Zoonotic Diseases – A One Health Initiative"	Dr. Sharada, R., - Organizing Secretary

b) Workshops:- Nil-

c) Seminars: – Nil-

d) Trainings:

#	*Date*	*Place*	*Title*	*Organized by*
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU (IAH&VB)				
1	02.05.2016 to 13.05.2016	USDA-APHIS training at SRDDL, Bengaluru	Basic Veterinary Epidemiology	United State Department of Agriculture (USDA)-APHIS SRDDL, IAH&VB

ii) National Level

a) Conference:- Nil -

b) Workshops

#	*Date*	*Place*	*Title*	*Organized by*
VETERINARY COLLEGE, BENGALURU (VCH)				
1	05.07.2016 to 08.07.2016	VMC- Veterinary College, Hebbal	Rabies Diagnosis and Quality Management Proficiency Tests	Dept. of Microbiology , Veterinary College, Bengaluru
2	21.02.2017 to 23.02.2017	VMC- Veterinary College, Hebbal	Rabies Diagnosis and Quality Management Proficiency Tests	Dept. of Microbiology Veterinary College, Bengaluru
3	26.08.2016	Veterinary College, Hebbal	Cadaver donation for Research studies	Veterinary College, Bengaluru and PETA Dr. L. Ranganath, Prof. & Head served as Coordinator
VETERINARY COLLEGE, BIDAR (VCB)				
1	04.07.2016 to 05.07.2016	College of Veterinary Science, Hyderabad	Regional workshop on Mentoring Young Extension Professionals for conduct of Scientific Research	IVEF, Puducherry; SPVNR-TSUVAFS, Hyderabad & KVAFSU, Bidar
VETERINARY COLLEGE, SHIVAMOGGA (VCS)				
1	23.07.2016	Veterinary College, Shivamogga	the workshop entitled “Ethics and Welfare issues in animal experiments”	Dept of Pharmacology & Toxicology and IAEC, VCS worked as Joint Organizing Secretary
VETERINARY COLLEGE, HASSAN (HVC)				
1	24.09.2016	Veterinary College, Hassan	Nutritional interventions to optimize productivity in livestock	Veterinary College, Hassan and NABARD, Bengaluru
2	21.12.2016	Veterinary College, Hassan	Management of livestock during fodder scarcity	Veterinary College, Hassan and NABARD, Bengaluru

3	25.01.2017	Veterinary College, Hassan	Welfare, ethics and experimentation in laboratory animals	Dept of Veterinary Pharmacology & Toxicology, Veterinary College, Hassan
4	30.12.2016	Veterinary College, Hassan	Conservation and management of indigenous cattle breeds	Dept of Animal Genetics & Breeding, Veterinary College, Hassan
5	02.03.2017	Veterinary College, Hassan	Fodder management during drought	Veterinary College, Hassan. Dr. Chandrashekar, K.M., was the organizing Secretary – under SCP-TSP Grant
COLLEGE OF FISHERIES, MANGALURU (FCM)				
1	26.08.2016	College of Fisheries, Mangaluru	Surveillance Programme for Aquatic Animal Diseases	College of Fisheries, Mangaluru
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU (IAH&VB)				
1	19.09.2016	Institute of animal Health & Veterinary Biologicals, Bengaluru (IAH&VB)	SRDDLL, IAH&VB, Workshop, Brucellosis, IAH&VB	All Scientists of SRDDLL
INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)				
1	28.12.2016	IWVR Doddaluvara	Crop damage by Wild Animals and its Control measures	IWVR, Doddaluvara
2	21.02.2017	IWVR Doddaluvara	Chemical immobilization of Wild Animals	IWVR, Doddaluvara
3	22.02.2017	IWVR Doddaluvara	Crop damage by Wild Animals and its Control measures	IWVR, Doddaluvara

c) Seminars:

#	*Date*	*Place*	*Title*	*Organized by*
VETERINARY COLLEGE, BENGALURU (VCH)				
1	17.06.2016 to 18.06.2016	Veterinary College, Bengaluru	Annual Review meeting of ICAR-Outreach Programme on Zoonotic Diseases (OPZD)	Dept. of Veterinary Public Health, Veterinary College, Bengaluru
2	06.07.2016	Veterinary College, Bengaluru	Programme on "World Zoonoses Day – 2016"	Dept. of Veterinary Public Health, VCH in collaboration with Associate Director Extension, Regional campus, Veterinary College Bengaluru
3	24.03.2017	Veterinary College, Bengaluru	Programme on "World Tuberculosis Day – 2017"	Department of Veterinary Public Health and Epidemiology, VCH in collaboration with National Tuberculosis Institute, Bengaluru
INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)				
1	05.10.2016	College of Forestry, Ponnampet, Virajpet Taluk	"Biology, behaviour and management of Snakes" by Dr.Karthik, Urban Wildlife Hospital, Uttarahalli, PFA, Bangaluru	IWVR-Doddaluvara
2	06.10.2016	PG Centre, Mangaluru University, Chikkaluvara Kodagu Dist	"Importance of Wildlife" by Dr.K.Ganesh Udupa, Director, IWVR, Doddaluvara	IWVR-Doddaluvara

d) Trainings:

#	*Date*	*Place*	*Title*	*Organized by*
VETERINARY COLLEGE, BENGALURU (VCH)				
1	09.08.2016	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers – 36	EEC & Dept. of VAHEE
2	18.08.2016	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers - 38	EEC & Dept. of VAHEE
3	30.08.2016	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers - 40	EEC & Dept. of VAHEE
4	20.09.2016	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers – 47	EEC & Dept. of VAHEE
5	01.12.2016	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers - 47	EEC & Dept. of VAHEE
6	16.03.2017	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers - 42	EEC & Dept. of VAHEE
7	24.03.2017	RKVY Seminar Hall	One day training programme on Sheep and Goat Farming Farmers - 55	EEC & Dept. of VAHEE
8	29.12.2016	Yeliyuru village	One day Interaction programme on "Scientific livestock farming" Farmers - 35	EEC & Veterinary College, Bengaluru
9	07.11.2016 to 27.11.2016	CAFT, Veterinary College. Bengaluru	Clinical parasitological techniques and molecular methods in the detection of parasitic diseases	Centre of Advanced Faculty Training in Veterinary Parasitology funded by ICAR
10	13.03.2017	Veterinary College, Bengaluru	'Hygienic production of foods of animal origin and food safety' for the benefit of SHG's farmers, animal attendants	Dept. of Veterinary Public Health and Epidemiology, Veterinary College, Bengaluru
11	05.01.2017 to 07.01.2017 and every fortnight	Veterinary College, Bengaluru	Hands on Training on "Analytical Equipment"	Department of Pharmacology and Toxicology, Veterinary College, Hebbal, Bengaluru
12	09.03.2017 to 11.03.2017	Veterinary College, Bengaluru	Administrative Training for Teaching and Non-teaching staff	Department of Pharmacology and Toxicology, Veterinary College, Hebbal, Bengaluru

13	19.08.2016	Veterinary College, Bengaluru	Training on management of Equines in High altitude and frontier regions	Veterinary College, Bengaluru and Army Service Corp.
14	16.02.2017	Veterinary College, Bengaluru	Training on management of Equines in High altitude and frontier regions	Veterinary College, Bengaluru and Army Service Corp.
VETERINARY COLLGE, BIDAR (VCB)				
1	19.01.2017 to 28.01.2017	Veterinary College, Bidar	Skill development for rural unemployed youth on animal husbandry and animal health care	Directorate of Extension KVAFSU, Bidar & SAMETI (North), Dharwad
2	12.07.2016	Veterinary College, Bidar	Estrus Synchronization and controlled breeding in infertile and repeat breeding cows and buffaloes	Dept. of VGO, VCB and Dept. of AHVS, Bidar (Aurad Taluk- 30 participant)
3	13.07.2016	Veterinary College, Bidar	Estrus Synchronization and controlled breeding in infertile and repeat breeding cows and buffaloes	Dept. of VGO, VCB and Dept. of AHVS, Bidar (Basavkalyan Taluk- 30 participant)
4	19.07.2016	Veterinary College, Bidar	Estrus Synchronization and controlled breeding in infertile and repeat breeding cows and buffaloes	Dept. of VGO, VCB and Dept. of AHVS, Bidar (Bhalki Taluk- 30 participant)
5	20.07.2016	Veterinary College, Bidar	Estrus Synchronization and controlled breeding in infertile and repeat breeding cows and buffaloes	Dept. of VGO, VCB and Dept. of AHVS, Bidar (Bidar Taluk- 30 participant)
6	26.07.2016	Veterinary College, Bidar	Estrus Synchronization and controlled breeding in infertile and repeat breeding cows and buffaloes	Dept. of VGO, VCB and Dept. of AHVS, Bidar (Humnabad Taluk- 30 participant)
7	16.05. 2016	Veterinary College, Bidar	Scientific Dairy Farming	EEC, Bidar & BRDS, Bidar
8	2.06. 2016	Veterinary College, Bidar	Scientific Dairy Farming	EEC, Bidar & BRDS, Bidar
9	27.12.2016	Veterinary College, Bidar	Farmer Scientists Interaction and Training Programme	EEC, Bidar
10	04.01.2017	Mustari	Scientific Goat Farming	EEC, Bidar
11	16.02.2017	Veterinary College, Bidar	Scientific Dairy Farming	EEC, Bidar

12	27.02.2017 to 28.02.2017	Veterinary College, Bidar	Scientific Dairy Farming	EEC, Bidar and Reliance Foundation, Bidar
13	20.03.2017 to 21.03.2017	Veterinary College, Bidar	Scientific Goat Farming	EEC, Bidar and Reliance Foundation, Bidar
14	25.03.2017	Hajnal (Bhalki)	Summer management of Dairy Animals	EEC, Bidar
15	27.03.2017	Alwai (Bhalki)	Summer management of Dairy Animals	EEC, Bidar
16	14.12.2016 to 17.12.2016	Veterinary College, Bidar	"Administrative Training Program" under the SCSP-TSP grants of 2016-17	Chairman, SCSP-TSP Grants of 2016-17
VETERINARY COLLEGE, SHIVAMOGGA (VCS)				
1	06.03.2017 to 12.03.2017	Halejoga, Honnali Tq	NSS activity, Veterinary College, Shivamogga	NSS Unit, Veterinary College, Shivamogga
2	16.09.2016	Veterinary College, Shivamogga	Sheep and Goat rearing for Rural Empowerment	EEC, Shivamogga
3	03.10.2016	Veterinary College, Shivamogga	Exploration of problems in Sheep and Goat rearing	EEC, Shivamogga
4	25.11.2016	Veterinary College, Shivamogga	Preparation of milk products and different methods for detection of adulteration in milk and milk products	EEC, Shivamogga
5	07.12.2016	Veterinary College, Shivamogga	Sheep and goat farming	EEC, Shivamogga
6	09.02.2017	Veterinary College, Shivamogga	Scientific sheep and goat farming	EEC, Shivamogga
7	06.10.2016 to 07.10.2016	Veterinary College, Shivamogga	Sustainable dairy farming	Dept. of ILFC and Dept. of LPM, Veterinary College Shivamogga
8	23.07.2016	Veterinary College, Shivamogga	Ethics and Welfare Issues in Animal Experiments	Department of Veterinary Pharmacology & Toxicology In association with Institutional animal ethics committee (IAEC)

9	16.11.2016	Veterinary College, Shivamogga	Techniques in Experimental Pharmacology	Department of Veterinary Pharmacology & Toxicology In Association With AD instruments, South Asia, Bengaluru (INDIA)
VETERINARY COLLEGE, HASSAN (HVC)				
1	23.08.2016 to 25.08.2016	Veterinary College, Hassan	Improved Poultry Farming	Dept. of EEC, Veterinary College, Hassan
2	06.12.2016 to 08.12.2016	Veterinary College, Hassan	Scientific Goat Farming	Dept. of EEC, Veterinary College, Hassan
3	14.12.16 to 16.12.2016	Veterinary College, Hassan	Improved Dairy Farming	Dept. of EEC, Veterinary College, Hassan
4	04.01.2017 to 06.01.2017	Veterinary College, Hassan	Improved Pig Farming	Dept. of EEC, Veterinary College, Hassan
5	01.02.2017 to 03.02.2017	Veterinary College, Hassan	Improved Sheep Farming	Dept. of EEC, Veterinary College, Hassan
6	14.02.2017 to 16.02.2017	Veterinary College, Hassan	Scientific Rabbit Farming	Dept. of EEC, Veterinary College, Hassan
7	15.02.2017	Veterinary College, Hassan	Canine Rearing for Livelihood	Dept. of EEC, Veterinary College, Hassan
8	13.04.2016	Honnegowdanahalli, Gundlupet taluk	Fodder nursery Field day	KWDP-II Sujala-III Project, Chamarajanagar
9	31.05.2016	Kerehalli, Chamarajanagar Taluk	Enrichment of dry fodder	KWDP-II Sujala-III Project, Chamarajanagar
10	23.08.2016 to 25.08.2016	Veterinary College, Hassan	Ration Balancing Programme – Batch-VII	Dept. of VAHE Veterinary College, Hassan
11	06.12.2016 to 08.12.2016	Maleyuru, Chamarajanagar Taluk	Correction of low Fat & SNF in dairy animals	KWDP-II Sujala-III Project, Chamarajanagar
12	14.12.2016 to 16.12.2016	Veterinary College, Hassan	Ration Balancing Programme – Batch-VIII	Dept. of VAHE Veterinary College, Hassan

13	04.01.2017 to 06.01.2017	Kerehalli, Chamarajanagar Taluk	Awareness on Subclinical mastitis	KWDP-II Sujala-III Project, Chamarajanagar
14	01.02.2017 to 03.02.2017	Veterinary College, Hassan	Ration Balancing Programme – Batch-IX	Dept. of VAHE Veterinary College, Hassan
15	14.02.2017 to 16.02.2017	Veterinary College, Hassan	Ration Balancing Programme – Batch-X (Refresher training)	Dept. of VAHE Veterinary College, Hassan
16	15.02.2017	Maleyuru, Chamarajanagar Taluk	Selection of ram and breeding of sheep	KWDP-II Sujala-III Project, Chamarajanagar
17	13.04.2016	Veterinary College, Hassan	Ration Balancing Programme – Batch-XII	Dept. of VAHE, Veterinary College, Hassan
18	31.05.2016	Shivapura village, Gundlupet	Selection of ram and breeding of sheep	KWDP-II Sujala-III Project, Chamarajanagar
19	23.08.2016 to 25.08.2016	Veterinary College, Hassan	Improved poultry production	ILFC & CPDO&TI
20	06.12.2016 to 08.12.2016	Veterinary College, Hassan	Improved poultry production	ILFC & CPDO & TI
21	14.12.2016 to 16.12.2016	Veterinary College, Hassan	Field performance recording in Amrit Mahal Cattle	Dept. of AGB, Veterinary College, Hassan
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)				
1	01.06.2016	Hebbal, Bengaluru	Lecture cum demonstration on processing of milk	World Milk Day – Dairy Science College, Bengaluru
2	05.06.2016	Hebbal, Bengaluru	Plantation programme	World Environment Day - Dairy Science College, Bengaluru
3	19.06.2016 to 21.06.2016	Hebbal, Bengaluru	Yoga for the staff of the College	International Yoga Day - Dairy Science College, Bengaluru
4	29.07.2016	Harohally, Kanakapura	Talk on opportunities in Agriculture and Dairying	Government College, Harohally
5	03.08.2016	Bengaluru	Industrial consultancy	Dairy Science College, Bengaluru
6	21.12.2016	Bengaluru	Visit to SEDP by Shishu Vihar students	Dairy Science College, Bengaluru
7	07.01.2017	Bengaluru	Visit by Food Technology college student, Nasik	Dairy Science College, Bengaluru
8	18.01.2017	Hebbal, Bengaluru	Lecture on role of milk ingredients in bakery products	Bakery training unit, Hebbal, Bengaluru

9	25.01.2017	Hebbal, Bengaluru	Visit to SEDP by Jha, Director, Model Dairy Plant, NDRI, Karnal	Dairy Science College, Hebbal, Bengaluru
10	07.02.2017	Bengaluru	Industrial consultancy to Nagappa, Dairy Entrepreneur, Belguam	Dairy Science College, Hebbal, Bengaluru
11	07.02.2017	Bengaluru	Industrial consultancy to M/s Raghavendra Rao , Dairy Entrepreneur, Ananthapur, AP	Dairy Science College, Hebbal, Bengaluru
DAIRY SCIENCE COLLEGE, HEBBAL, KALBRUGI (DSCK)				
1	10.01.2017 to 12.01.2017	DSCK (DT)	Value Added Paneer Products for Self Help Group (SHG) women	Dr. Sharanagouda B, Dr. Priyatam Reddy, Mr. Shankarlingayya, V. Sthavarmath, Mr. Shivakumar, Mrs Sumitra, M. and Mrs. Asha, S. Patil
2	06.02.2017 to 08.02.2017	DSCK (DM)	Management of Micro-Organisms	Dr. H. Manjunatha, Mr. Mahesh Patil and Ms. Basava Bharati
3	21.02.2017 to 23.02.2017	DSCK (DM)	Clean Milk Production	Dr. H. Manjunatha, Mr. Mahesh Patil and Ms. Basava Bharati
4	09.03.2017 to 11.03.2017	DSCK (DC)	Detection of food adulteration and its implications on health.	Mr. Rajanna and Ms. Priyanka
5	23.03.2017 to 25.03.2017	DSCK (DC)	The role of milk quality management on the backdrop of food safety Act.	Mr. Rajanna and Ms. Priyanka
6	13.02.2017 to 15.02.2017	DSCK (DT)	Making of Value added milk products training	Dr. Sharanagouda, B., Dr. Priyatam Reddy, Mr. Shankarlingayya, V. Sthavarmath, Mr. Shivakumar, Mrs Sumitra, M. and Mrs. Asha, S. Patil
COLLEGE OF FISHERIES, MANGALURU (FCM)				
1	17.02.2017	Kumta Uttara Kannada District	Open sea fish farming in cages	Dept. of Aquaculture
2	20.01.2017	Kabini Fish seed farm, H.D.Kote	Disease diagnosis in Freshwater fishes and Health Management in Aquaculture	Dept. of Aquaculture

3	14.02.2017	Bhudhanooru Fish Seed Rearing and Training Centre, Mandya	Disease diagnosis in Freshwater fishes and Health Management in Aquaculture	Dept. of Aquaculture
4	15.04.2016 to 26.04.2016	College of Fisheries, Mangaluru	Basics of Bioinformatics for Biotechnology and Biosciences students of Mangaluru University	Dept. Fisheries Microbiology
5	28.12.2016 to 04.01.2017	College of Fisheries, Mangaluru	Training on Molecular Diagnosis of shrimp diseases	Dept. of Fisheries Microbiology
6	22.12.2016	Kadwada Karwar, UK dist	Awareness on National Surveillance Programme for Aquatic Animal Diseases	Dept. of Fisheries Microbiology
7	20.02.2017	Kundapura, Udupi District	Awareness on National Surveillance Programme for Aquatic Animal Diseases	Dept. of Fisheries Microbiology
8	25.07.2016 to 27.07.2016	Karwar	Training on creating awareness on responsible fisheries to coastal fishermen of Uttar Kannada dist	Dept. of FET (Under ATMA program of Agricultural Dept.)
9	19.02.2017 to 22.02.2017	Ernakulam, Kochi, Kerala	Use of modern fishing and Navigational equipment for the benefit of fishermen at CIFT and CIFNET, Kochi	Dept. of FET under ATMA program of Agricultural Dept
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU				
1	20.12.2016	SRDDL, IAH&VB	Training on collection of brain samples for diagnosis of BSE	All Scientist's of SRDDLL
2	22.12.2016 to 23.12.2016	SRDDL, IAH&VB	Application of time micro PCR technology in STD screening	All Scientist's of SRDDLL
INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)				
1	08.12.2016	IWVR, Doddaluvara	"Wild Animal Tranquilization" to the officers of DAH&VS of Bengaluru Rural, Kolar, Tumkur, Raichur and Kalaburgi districts	IWVR-Doddaluvara
2	09.12.2016	IWVR, Doddaluvara	Tranquilization of Wild animals" to the officers of DAH&VS of Koppal, Chikkaballapur, Yadgir, Bidar and Haveri districts	IWVR-Doddaluvara

LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA				
1	21.06.2016	LRIC, Nagmangala	One day training programme on "sheep and goat rearing" organized for the beneficiary selected under Pashubhagya Yojana of the Dept. of AH&VS	DAH&VS, K.R. Pete
2	07.10.2016	LRIC, Nagmangala	Sheep rearing and management	LRIC(S), Nagamangala
3	24.11.2016	LRIC, Nagmangala	Refresher training programme to the para-vets of the Dept. of AH&VS on various animal husbandry activities	LRIC(S), Nagamangala
4	23.12.2016	LRIC, Nagmangala	Refresher training programme to the para-vets of the Dept. of AH&VS on various animal husbandry activities	LRIC(S), Nagamangala
5	03.01.2017	LRIC, Nagmangala	Information on Sheep shed construction	LRIC(S), Nagamangala
6	19.01.2017	LRIC, Nagmangala	Importance of oestrus synchronization and artificial insemination in sheep	LRIC(S), Nagamangala
7	31.01.2017	LRIC, Nagmangala	Scientific methods of sheep and goat management	LRIC(S), Nagamangala
8	03.02.2017	LRIC, Nagmangala	Scientific methods of sheep and goat management	LRIC(S), Nagamangala
9	03.02.2017	LRIC, Nagmangala	One day training programme on sheep rearing	LRIC(S), Nagamangala
10	22.02.2017	LRIC, Nagmangala	One day training programme to VLI on importance of conservation of Mandya Sheep	AH&VS, Nagamangala
11	23.02.2017	LRIC, Nagmangala	One day training programme on oestrus synchronization and Artificial insemination in sheep	DAH&VS, K.R. Pete
12	04.03.2017	LRIC, Nagmangala	One day training programme on Sheep rearing and management	LRIC(S), Nagamangala
13	16.03.2017	LRIC, Nagmangala	One day training programme on oestrus synchronization and Artificial insemination in sheep	LRIC(S), Nagamangala
14	31.03.2017	LRIC, Nagmangala	Scientific methods of sheep and goat management	LRIC(S), Nagamangala

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA				
1	26.12.2016	FRIC(M), Ankola	Responsible Fisheries and Hygiene maintenance in Fish market for fishermen and fisherwomen as part of Jai Kisan Jai Vigyan Week: 28 Nos.	Dr. Chandrakant Lingadhal
2	17.02.2017	Hotel Vaibhav Palace, Kumta	Open sea cage fish farming to the fish farmers of Ankola and Kumtataluks under AINP – Mariculture Project:41 Nos.	Dr. Jayaraj, E.G. and Dr. Chandrakant Lingadhal
FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA				
1	12.07.2016	Veterinary College, Bengaluru	Fish culture in natural tanks & ponds	Dept. of Fisheries & KVAFSU, Bidar
2	27.09.2016	FRIC, Hesaraghatta	Fish culture in ponds and tanks	Dr. Manjappa, N. and Dr. Ravindragouda Patil
3	21.11.2016	FRIC, Hesaraghatta	Integrated fish culture	Dr. Manjappa, N.
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL				
1	09.01.2017	Chamarajnagar	Banning of fishing in mansoon and ill effect of dynamites	Dept. of Fisheries, Chamarajanagara and FRIC, Hebbal
2	13.05.2016	Chamarajnagar	Composite fish rearing	Sujala-III & FRIC, Hebbal
3	31.05.2016	Chamarajnagar	Training on fish rearing	Sujala-III & FRIC, Hebbal
4	13.07.2016	Chamarajnagar	Fish Farmers Day and Awareness about fish rearing	Sujala-III, FRIC, Hebbal and Dept. of Fisheries, Chamarajanagara
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA (KVK-DK)				
A	On campus trainings			
1	09.05.2016 to 14.05.2016	KVK-DK	KRISHI RANGA summer camp for Kids	KVK-DK, Mangaluru, SCUHA, Sankaetha, Mangaluru and PFGF, Mumbai
2	20.07.2016	KVK-DK	Aquaculture an alternative livelihood	KVK-DK
3	20.07.2016	KVK-DK	Fish Farmers Day- Scientific Fish Culture	KVK-DK

4	06.10.2016	KVK-DK	Integrated farming system – Ornamental fish culture, Poultry farming	KVK-DK
5	05.12.2016	KVK-DK	World Soil day and Pre Rabi Campaign- Importance of soil and soil testing, nutrient deficiency symptoms and management	KVK-DK
6	05.12.2016	KVK-DK	Rabi Campaign 2016 cultivation aspects of pulses and seed treatment	KVK-DK
7	15.12.2016	KVK-DK	Custom hiring services in Agriculture an institutional economic study in eastern dry Zone of Karnataka	KVK-DK
8	21.12.2016	KVK-DK	Importance of agriculture and allied enterprises in nutritional security for the farmers, For women SHG group of Sanoor, Karkakal	KVK-DK
9	23.12.2016	COF, Mangaluru	*Raithara adaya mattu kalyanna vridhi prayogika karya yojana*	KVK-DK
10	23.12.2016	COF, Mangaluru	Kitchen Gardening	KVK-DK
11	28.12.2016	KVK-DK	Improved cultivation Practices in Greengram under NFSM cluster Front Line Demonstration	KVK-DK
12	28.12.216	KVK-DK	Focused group discussion on cultivation practices in green gram	KVK-DK
13	31.12.2016	KVK-DK	Pest of coconut and Integrated fish farming	KVK-DK
14	24.01.2017 to 25.01.2017	KVK-DK	Value addition to fish	KVK-DK
B	Off campus trainings			
1	24.05.2016	Naravi, Bantwal Tq.	FLD on Zinc Management in Paddy	KVK-DK
2	13.06.2016	Neerude	Integrated crop management in Paddy	KVK-DK
3	27.06.2016	Manchi, Bantwal Taluk	FLD on Integrated crop management in Pepper	KVK-DK
4	13.07.2016	Sajeepa, Bantwal Tq.	FLD on ICM in Coconut	KVK-DK

5	16.07.2016	Pilikula, Mangaluru	Plant Protection and Farmers Right Act-2001	KVK-DK
6	28.07.2016	Balpa, Sullia Taluk	FLD on ICM in Arecanut	KVK-DK
7	28.07.2016	Subramanya, Sullia	Fish culture and Swarnadhara poultry farming	KVK-DK
8	28.07.2016	Subramanya, Sullia	Scientific poultry farming	KVK-DK
9	30.07.2016	Bettampadi, Puttur	Agricultural awareness programme for the students	KVK-DK
10	18.08.2016	Nirumarga, Mangaluru	ICM in Black Pepper	KVK-DK
11	29.08.2016	Uppinangadi, Puttur	OFT on Management of Quick wilt in pepper	KVK-DK
12	04.01.2017	Hosabettu, Surathkal	"Pest and Diseases of Coconut and flower crops	KVK-DK
13	16.01.2017	Kalladka, Bantwal	Integrated Fish Farming	KVK-DK
14	24.01.2017	Kabaka, Bantwal Tq.	"Importanance of soil testing and soil sampling in Agriculture"	KVK-DK
15	31.01.2017	Harekala	Improved Cultivation Practices in chilli and capacity building programme for the farmers	KVK-DK
16	01.02.2017	Thikkottu	BHC in Coconut	KVK-DK
17	03.02.2017	Neerodi	ICM in Jasmine	KVK-DK
18	06.02.2017	Vitla	Inflorescence die back and Inflorescence caterpillar in Areca nut	KVK-DK
19	16.02.2017	Naravi	Improved cultivation Practices in Green gram under NFSM Cluster Front Line Demonstration	KVK-DK
20	16.02.2017	Arekala / Pavur	Feed Instruments and medicines required for chicks rearing (FFS)	KVK-DK
21	18.02.2017	Arekala / Pavur	Brooding of chicks (FFS)	KVK-DK
22	23.02.2017	Tenkamijar	Focused group discussion on cultivation practices in green gram	KVK-DK
23	28.02.2017	Narimogaru, Puttur	Integrated Fish Farming System	KVK-DK
24	18.03.2017	Mulki	White flies in Coconut	KVK-DK
25	25.03.2017	Kuppepadav, Gurupura	Vermicompost production and its importance	KVK-DK

C	Sponsored training programme			
1	24.10.2016	KVK-DK, Mangaluru	Diploma in Agricultural Extension Services for input Dealers	DAESI
2	26.10.2016 to 28.10.2016	KVK-DK, Mangaluru	Ornamental fish production and marketing	NFDB, Hyderabad
3	28.10.2016	KVK-DK, Mangaluru	Over view of agricultural production system in India	DAESI
4	28.10.2016	KVK-DK, Mangaluru	Major flagship programmes of central/state government related to agricultural development	DAESI
5	05.11.2016	KVK-DK, Mangaluru	Importance of pest and disease control in agriculture	DAESI
6	05.11.2016	KVK-DK, Mangaluru	Identification of damages caused by pest and pathogens	DAESI
7	12.11.2016	KVK-DK, Mangaluru	Importance of soil testing methods of soil sampling, Interpretation and farm advisory based on soil test results	DAESI
8	12.11.2016	KVK-DK, Mangaluru	Micro and macro nutrient deficiencies and their systems	DAESI
9	26.11.2016	KVK-DK, Mangaluru	Types of pest and its classification and integrated pest management	DAESI
10	26.11.2016	KVK-DK, Mangaluru	Insect and disease systems Disease of major crops	DAESI
11	03.12.2016	KVK-DK, Mangaluru	Improvement in farmers income	DEASI
12	03.12.2016	KVK-DK, Mangaluru	Cultivation practices of coconut	DEASI
13	17.12.2016	KVK-DK, Mangaluru	Cultivation practices of Arecanut	DEASI
14	17.12.2016	KVK-DK, Mangaluru	Diseases of Coconut and its management	DEASI
15	23.12.2016	KVK-DK, Mangaluru	Improvement in farmers Income, value addition in horticultural crops and income generation	DEASI
16	23.12.2016	KVK-DK, Mangaluru	Kitchen Gardening – Importance of vegetable in human diet, Importance of health and personality development of farmers	DEASI

17	31.12.2016	KVK-DK, Mangaluru	Pests of major crops of the district	DEASI
18	31.12.2016	KVK-DK, Mangaluru	Aquaculture	DEASI
19	07.01.2017	KVK-DK, Mangaluru	Disease of Coconut and Practical class on pest of crops, Soil Nutrient analysis	DAESI
20	07.01.2017	KVK-DK, Mangaluru	Identification of the diseases and pests	DAESI
21	13.01.2017	KVK-DK, Mangaluru	Importance of bio-fertilizer	DAESI
22	13.01.2017	KVK-DK, Mangaluru	Azolla cultivation	DAESI
23	18.01.2017 to 25.01.2017	KVK-DK, Mangaluru	Value addition to fish	NFDB-Hyderabad
24	21.01.2017	KVK-DK, Mangaluru	Introduction of farm animal and animal husbandry, maintenance of farm animals	DAESI
25	21.01.2017	KVK-DK, Mangaluru	Disease of farm animals and its controls measures	DAESI
26	04.02.2017	KVK-DK, Mangaluru	Integrated disease management	DAESI
27	04.02.2017	KVK-DK, Mangaluru	Communication skills negotiation, and motivation counseling and application of these concepts for convincing the farmers for better adoption technologies	DAESI
28	11.02.2017	KVK-DK, Mangaluru	Suitable cropping system for the existing agro ecological situation	DAESI
29	11.02.2017	KVK-DK, Mangaluru	Problematic soils and their management	DAESI
30	18.02.2017	KVK-DK, Mangaluru	Crop production of Horticulture crops (Cashew) Pest and diseases of Cashew	DAESI
31	18.02.2017	KVK-DK, Mangaluru	Classification of pesticides	DAESI
32	06.03.2017 to 08.03.2017	KVK-DK, Mangaluru	Ornamental Fish Production and Management	KVK-DK
33	11.03.2017	KVK-DK, Mangaluru	Paddy Cultivation, SRI Method of Paddy cultivation, Nursery techniques for growing horticulture crops	DAESI

34	11.03.2017	KVK-DK, Mangaluru	Demonstration on Paddy seed selection, yield estimation in pulses	DAESI
35	18.03.2017	KVK-DK, Mangaluru	Installation and management of micro irrigation system, budget requirement for the installation of micro irrigation system	DAESI
36	18.03.2017	KVK-DK, Mangaluru	Chemical classification of pesticides, mode of action of pesticides	DAESI
37	25.03.2017	KVK-DK, Mangaluru	Rural credit, Maintenance of balance sheet. Fertilizers, sampling of fertilizers, Water retaining	DAESI
38	25.03.2017	KVK-DK, Mangaluru	Production technology of Solanaceous crops and other vegetable crops	DAESI
ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI				
A	For Officers			
1	14.07.2016	Veterinary Hospital, Gadag	District level workshop on Mid-term appraisal and review workshop of Sujala – 3, Gadag district	AHP-Shiggaon, Sujala-III, DAH&VS, KMF-Gadag
2	09.03.2017	Veterinary College, Gadag	District level workshop of Sujala – 3, Gadag district	AHP-Shiggaon, Sujala-III, Veterinary College, Gadag and DAH&VS-Gadag
B	For Farmers			
1	15.04.2016	Yelishirur, Tq. Gadag	Fodder chaffing and enrichment	AHP Shiggaon under Sujala - III
2	15.06.2016	Ranatur, Tq. Shirahatti	Supplementary feeding during late pregnancy	AHP Shiggaon under Sujala - III
3	27.06.2016	Beladadi, Tq. Gadag	Green fodder cultivation and supplementary feeding during late pregnancy	AHP Shiggaon under Sujala - III
4	10.08.2016	Shirol, Tq. Gadag	Subclinical mastitis	AHP Shiggaon under Sujala - III
5	14.08.2016	Melmatha, Tq. Ron	Enrichment of dry fodder with urea.	AHP Shiggaon under Sujala - III
6	22.08.2016	Soratur, Tq. Gadag	Enrichment of dry fodder with urea.	AHP Shiggaon under Sujala - III
7	05.10.2016	AHP, Shiggaon	Fodder Proudction	AHP Shiggaon
8	16.11.2016	AHP, Shiggaon	Enrichment of Dry Fodder – Strategy for draught season	AHP Shiggaon
9	15.12.2016	AHP, Shiggaon	Utilization of Maize crop by products	AHP Shiggaon

10	15.12.2016	AHP, Shiggaon	Improved Livestock Production Practices	AHP Shiggaon
11	15.12.2016	AHP, Shiggaon	Dairy Farming	AHP Shiggaon
12	05.01.2017	Dambal,	Dry Fodder Enrichment	AHP Shiggaon under Sujala - III
13	29.01.2017	Menasagi	Tick Management	AHP Shiggaon
ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLY				
1	25.11.2016	Aladahalli Tipur Taluk	Scientific Dairy Farming	AHP Konehalli
2	16.12.2016	Siddlehalli , Tipur Taluk	Calf rearing	AHP Konehalli
3	21.12.2016	AHP Konehalli	Scientific Dairy Farming	AHP Konehalli
4	24.12.2016	Nagaraghata Tipur Taluk	Summer management of Dairy animals	AHP Konehalli & KVK Bidaregudi
5	26.12.2016	KVK Bidaregudi	Use of Information and communication technology in Agriculture extension.	AHP Konehalli
6	28.12.2016	KVK Bidaregudi	Demonstration of preparation of "Chikki" to the Farmer women's	AHP Konehalli & KVK Bidaregudi
7	13.01.2017	Hosahalli Tipur Taluk	Clean Milk Production	AHP Konehalli
8	06.03.2017	Biligere Tipur Taluk	Pregnancy diagnosis in dairy animals	AHP Konehalli
9	09.03.2017	Ayyanabhavi	Poultry Farming	AHP Konehalli
EXTENSION EDUCATION CENTER, HASSAN				
1	23.08.2016 To 25.08.16	Veterinary College, Hassan	Improved Poultry Farming	Dept. of EEC, Veterinary College, Hassan
2	06.12.2016 to 08.12.2016	Veterinary College, Hassan	Scientific Goat Farming	Dept. of EEC, Veterinary College, Hassan
3	14.12.16 to 16.12.2016	Veterinary College, Hassan	Improved Dairy Farming	Dept. of EEC, Veterinary College, Hassan
4	04.01.2017 to 06.01.2017	Veterinary College, Hassan	Improved Pig Farming	Dept. of EEC, Veterinary College, Hassan
5	01.02.2017 to 03.02.2017	Veterinary College, Hassan	Improved Sheep Farming	Dept. of EEC, Veterinary College, Hassan
6	14.02.2017 to 16.02.2017	Veterinary College, Hassan	Scientific Rabbit Farming	Dept. of EEC, Veterinary College, Hassan
7	15.02.2017	Veterinary College, Hassan	Canine Rearing for Livelihood	Dept. of EEC, Veterinary College, Hassan

2. Participation as Resource Scientist in Conference / Training Programmes / Workshops/ Seminars / Symposia / Winter School, etc.

#	*Institution*	*Conferences*	*Training Programmes*	*Workshops*	*Seminars*	*Symposia*	*Winter/ Summer Schools*	*Total*
1	Veterinary College, Bengaluru	07	132	07	06	06	-	**158**
2	Veterinary College, Bidar	06	68	02	02	02	01	**81**
3	Veterinary College, Shivamogga	01	79	23	09	01	-	**113**
4	Veterinary College, Hassan	03	176	05	02	03	02	**191**
5	Dairy Science College, Bengaluru	-	06	-	-	-	-	**06**
6	Dairy Science College, Kalaburgi	-	-	-	-	-	-	**00**
7	College of Fisheries, Mangaluru	-	06	02	01	-	-	**09**
8	IAH&VB, Bengaluru	02	42	07	08	01	-	**60**
9	IWVR, Kodagu	-	02	03	01	-	-	**06**
10	Krishi Vigyan Kendra, Dakshina Kannada	01	81	03	-	13	-	**98**
11	FRIC, Hebbal, Bengaluru	-	-	-	-	-	-	**00**
12	FRIC, Hesaraghatta, Bengaluru	02	03	-	-	-	-	**05**
13	FRIC, Bhutnal, Vijayapura	01	12	05	-	-	01	**19**
14	FRIC, Ankola, Uttar Kannada	-	01	-	05	-	-	**06**
15	LRIC, Nagamangala	-	03	-	-	-	-	**03**
16	LRIC, Hallikhed	01	-	01	-	-	-	**02**
17	LRIC, Konehalli	-	-	-	-	-	-	**00**
18	AHP, Shiggaon, Haveri	01	01	-	-	-	-	**02**
	Total	**25**	**612**	**58**	**34**	**26**	**04**	**759**

3. Participation as Trainee Scientists in Conference / Training Programmes / Workshops / Seminars / Symposia / Winter School, etc.

#	*Institution*	*Conferences*	*Training Programmes*	*Workshops*	*Seminars*	*Symposia*	*Winter/ Summer Schools*	*Total*
1	Veterinary College, Bengaluru	16	66	19	01	04	03	**109**
2	Veterinary College, Bidar	18	15	08	01	05	09	**56**
3	Veterinary College, Shivamogga	09	12	30	05	-	02	**58**
4	Veterinary College, Hassan	35	24	24	18	05	02	**108**
5	Dairy Science College, Bengaluru	-	01	-	-	-	-	**01**
6	Dairy Science College, Kalaburgi	-	-	-	-	-	-	**00**
7	College of Fisheries, Mangaluru	-	-	03	01	-	01	**05**
8	IAH&VB, Bengaluru	05	03	06	01	-	-	**15**
9	IWVR, Kodagu	01	-	01	01	01		**04**
10	Krishi Vigyan Kendra, Dakshina Kannada	03	08	16	01	01	01	**30**
11	FRIC, Hebbal, Bengaluru	-	-	-	-	-	-	**00**
12	FRIC, Hesaraghatta, Bengaluru	-	-	-	-	-	01	**01**
13	FRIC, Bhutnal, Vijayapura	-	-	01	-	-	-	**01**
14	FRIC, Ankola, Uttar Kannada	-	-	-	-	-	02	**02**
15	LRIC, Nagamangala	01	-	-	01	-	-	**02**
16	LRIC, Hallikhed	01	01	-	-	-	-	**02**
17	CRIC, Thimmapur	-	01	02	-	-	01	**04**
	Total	**89**	**131**	**110**	**30**	**16**	**22**	**398**

4. Radio Talk/TV Programmes

a) Radio Talks

#	*Date*	*Scientist*	*Topic*	*AIR Station*
VETERINARY COLLEGE, BENGALURU				
1	10.01.2017	Prabhu, T.M.	Management and feeding of animals during fodder scarcity	AIR-Bengaluru
2	02.03.2017	Suma, N.	Pig rearing and its profitability	AIR-Bengaluru
3	30.11.2016	Umashankar, B.C.	*Hainugaarikeyalli hasugala aahara mattu poshane*	AIR-Bengaluru
4	23.01.2017	S.B. Prasanna	Profitable sheep farming for women farmers	AIR-Bengaluru
5	17.11.2016	Mahadevappa, D. Gouri	Rearing of pigs	AIR-Bengaluru
6	23.01.2017	Jayanaik	Rearing of Broilers and its Profitability	AIR-Bengaluru
7	19.04.2016	K. Satyanarayana	Summer of Management of Livestock	AIR-Bengaluru
8	10.11.2016	V. Jagadeeswary	Backyard Poultry Rearing	AIR, Bengaluru
9	21.07.2016	M. Narayana Swamy	Physiological significance of water in dairying and milk quality	AIR-Bengaluru
10	03.10.2016	B.M. Veeregowda	Blue Tongue and PPR Diseases in Sheep and Goats and Control	AIR-Bengaluru
11	05.12.2016	D. Rathnamma	Control of major Bacterial diseases in Livestock	AIR-Bengaluru
12	06.12.2016	Shrikrishna Isloor	Brucellosis in animals and prevention	AIR-Bengaluru
13	21.09.2016	Leena, G.	Zoonoses and Control	AIR-Bengaluru
14	14.06.2016	H.A. Upendra	Metabolic diseases in sheep	AIR-Bengaluru
15	18.06.2016	H.A. Upendra	Mastitis and its control	AIR-Bengaluru
16	26.07.2016	B.M. Ravindranath	Artificial insemination in dairy animals	AIR-Bengaluru
17	05.01.2017	G.S. Mamtha	Protozoan diseases and their control	AIR-Bengaluru
18	20.03.2017	P.T. Ramesh	Management of Disease Carriers	AIR-Bengaluru
19	17.03.2017	V.C. Murthy	Reproductive problems in dairy cattle	AIR-Bengaluru
20	27.03.2017	Renukaradhya	Management of newborn calf	AIR-Bengaluru
21	16.03.2017	K.M. Srinivasa Murthy	Choke in dairy animals	AIR-Bengaluru
VETERINARY COLLEGE, BIDAR				
1	10.01.2017	Dr. Arun Kharate	Bird Flu	AIR-Kalburgi
VETERINARY COLLEGE, SHIVAMOGGA				
1	Jan, 2017	Nagappa, S. Karabasanavar	Bird Flu	AIR-Bhadravathi

2	22.02.2017	Shambulingappa	Management of FMD in livestock animals during summer	AIR-Bhadravathi
3	22.02.2017	Sundareshan	Role of farmers in control of contagious diseases in livestock	AIR-Bhadravathi
4	22.02.2017	N.B. Sridhar	Obscure diseases in livestocks	AIR-Bhadravathi
5	03.10.2016	Sundareshan	Control of brucellosis in animals	AIR-Bhadravathi
6	03.10.2016	B.A. Desai	Importance of animal welfare	AIR-Bhadravathi
7	24.05.2016	K.C. Veeranna	Stall fed sheep and goat rearing	AIR-Bhadravathi
8	July, 2016	Satheesha, G.M.	Calf management	AIR-Bhadravathi
9	March, 2017	Venkatesha, M.M.	Cultivation of fodder crops and management	AIR-Bhadravathi
VETERINARY COLLEGE, HASSAN				
1	03.06.2016	Vasanth M.S.	Employment opportunities for Veterinary Graduates	AIR-Hassan
2	05.06.2016	Vasanth M.S.	Conservation of wildlife is our prime responsibility	AIR-Hassan
3	09.08.2016	Vasanth M.S.	Harms caused by plastic bags to animals and environment	AIR-Hassan
4	03.03.2017	Chethan, K.P.	Fodder management during drought season	AIR-Hassan
5	13.01.2017	R. Jayashree	Cultivation of tree based fodder crops	AIR-Hassan
6	14.10.2016	Naveen Kumar, G.S.	Conservation of Amritmahal Cattle	AIR-Hassan
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)				
1	24.01.2017	D.B. Puranik	Preparation and marketing of traditional milk products	AIR-Bengaluru
2	March, 2017	C. Kempanna	Clean Milk Production	AIR-Bengaluru
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU				
1	17.11.2016	Ganesh Hegde	Facilities available at ADDL & IC, Sirsi	AIR-Bengaluru
2	18.11.2016	Ganesh Hegde	FMD and Brucellosis	AIR-Bengaluru
3	06.02.2017	Amitha Reena Gomes	Vaccination schedule for sheep and goats	AIR-Bengaluru
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU				
1	17.10.2016	K.N. Prabhudeva	Use of agriculture wastes in aquaculture for organic fish production	AIR-Bengaluru
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPU RA				
1	03.08.2016	Vijayakumar, S.	Life saving Guppy Fishes	AIR-Vijayapura
2	08.08.2016	Vijayakumar, S.	Earn Money – Culturing Fishes in Agriculture Pond	AIR-Vijayapura

FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA				
1	09.01.2016	Ravindragouda Patil	*Alankaarika Meenu Saakanike*	AIR-Bengaluru
2	21.06.2016	Ravindragouda Patil	*Kere Kolagalalli Meenu Saakanike*	AIR-Bengaluru
KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)				
1	14.04.2016	Harish Shenoy	Role of pulses in soil fertility	AIR-Mangaluru
2	09.07.2016	Shivakumar Magada	Fish culture in saline alkaline soils	AIR-Mangaluru
3	09.08.2016	T.S. Annappaswamy	Integrated fish farming	AIR-Mangaluru
4	22.08.2016	Punitha, B.C.	Effect of green maturing crops and oilcakes on soil health	AIR-Mangaluru
5	29.09.2016	Patil, R.S.	Scientific cultivation of Cocoa	AIR-Mangaluru
6	07.12.2016	Harish Shenoy	Role of legumes in soil fertility	AIR-Mangaluru
7	08.03.2017	Patil, R.S.	Cultivation of Pineapple	AIR-Mangaluru

b) TV Programmes

#	*Date*	*Scientist*	*Topic*	*Station*
VETERINARY COLLEGE, BENGALURU				
1	19.12.2016	Prabhu, T.M.	Fodder Management in Sheep Rearing	DD-Chandana
2	21.12.2016	Suma, N.	Piggery Farming	DD-Chandana
3	13.01.2017	Suma, N.	Nutrition Management in Piggery	DD-Chandana
4	15.12.2016	Umashankar, B.C.	Silage quality evaluation at laboratory level	E-TV
5	22.12.2016	Umashankar, B.C.	Balanced feeding of growing calves	E-TV
6	30.04.2016	S.B. Prasanna	*Ondu hani neerigagi*	TV-9
7	30.07.2016	S.B. Prasanna	Profitable pig production during summer	DD-Chandana
8	24.12.2016	S.B. Prasanna	Silage making under field conditions	E-TV News Kannada Annadata
9	25.12.2016	S.B. Prasanna	Silage evaluation under field conditions	E-TV News Kannada Annadata
10	11.05.2016	Mahadevappa, D. Gouri	Water conservation methods for animals during scarcity / drought	TV9- Bengaluru
11	May-June, 2016	Mahadevappa, D. Gouri	Legume fodder Production	DD-Chandana, Bengaluru
12	May-June, 2016	Mahadevappa, D. Gouri	Fodder Museum – Protein park concept	DD-Chandana, Bengaluru

13	15.02.2017	Jayanaik	Swarnadhara rearing in backyard system	DD-Bengaluru
14	06.04.2016	K. Satyanarayana	Live Phone In programme	DD-Bengaluru
15	10.05.2016	K. Satyanarayana	Mobile App on Fodder production	DD-Bengaluru
16	12.09.2016	Shrikrishna Isloor	Control of Brucellosis in Livestock	
17	28.11.2016	B.M. Veeregowda	Vaccination failure	DD-Bengaluru
18	10.08.2016	Leena, G.	Rat Fever (Leptospirosis) Management	DD-Bengaluru
19	23.05.2016	M.A. Kshama	*Karalu Bene*	DD-Chandana
20	18.02.2017	B.M. Ravindranath	Signs of estrus in cattle and artificial insemination	DD-Chandana
21	14.06.2016	H.A. Upendra	Livestock diseases during rainy season and control measures to be adopted	DD-Chandana
22	25.03.2017	P.T. Ramesh	Summer Management of cattle disease	DD-Chandana
23	15.09.2016	L. Ranganath	Visited Rakshith Dairy Farm, Jangalhalli regarding Isolation of Cattle & Scientific Euthanasia measure in cattle affected with Brucellosis	Suvarna News, TV9 News, Raj News, ETV Kannada, Public TV, Prajavani, Vijay Karnataka, Deccan Herald
24	16.10.2016	L. Ranganath	Panel discussion on Corneal Transplantation in dogs	E-TV Kannada News-LIVE programme
25	25.10.2016	L. Ranganath	Menace of Crackers to animals	E-TV Kannada News
26	09.12.2016	L. Ranganath	Marana Gellada Sidda	Kasturi News-LIVE programme
27	25.03.2017	L. Ranganath	Panel discussion on Animal Bite Wounds and Rabies	E-TV Kannada News-LIVE programme
28	06.02.2017	V.C. Murthy	*Yemme namma Hemme*	DD-Chandana

VETERINARY COLLEGE, BIDAR				
1	16.08.2016	B.V. Shivaprakash	*Mungaru samayadalli yettugalige baruva benegalu*	DD-Chandana-Bengaluru
2	25.04.2016	Ramachandra, B.	Management of Livestock during Drought	DD-Chandana-Bengaluru
3	27.03.2017	Ramachandra, B.	Management of Livestock during Drought	DD-Chandana-Bengaluru
VETERINARY COLLEGE, SHIVAMOGGA				
1	13.12.2016	K.C. Veeranna	Rural backyard poultry production	DD-Bengaluru
2	05.05.2016	T. Thirumalesh	Utilization of agricultural wastes as a component of complete feed	DD-Chandana
3	July, 2016	Venkatesha, M.M.	Cultivation of fodder crops and management	DD-Chandana
4	10.12.2016	Krishnamurthy, T.N.	Summer management	DD-Chandana
5	17.03.2017	Suresh Patel	Livestock manage-ment in summer	DD-Chandhana
VETERINARY COLLEGE, HASSAN				
1	17.06.2016	Vasanth, M.S.	Man Eaters Lions of Gir	TV Programee in 'News-9
2	07.09.2016	Vasanth, M.S.	Bears in Temple	TV-9 channel
3	28.10.2017	Vasanth, M.S.	*Kshamisu Sidda-Elephant Kedda*	TV-9 channel
COLLEGE OF FISHERIES, MANGALURU				
1	July, 2016	Kumar Naik, A.S.	Reasons for fish rain	Suvarna News
2	04.10.2016	M.N. Venugopal	Incidence of ciguatera fish poisoning	Daijiworld TV, Mangaluru
3	04.10.2016	M.N. Venugopal	Incidence of ciguatera fish poisoning	E-TV Kannada
4	06.10.2016	M.N. Venugopal	Incidence of ciguatera fish poisoning	Spandana TV, Mangaluru
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS, BENGALURU				
1	22.8.2016	Amitha Reena Gomes	PPR Management	Krishidarshan Programme in DD chandana

FISHERIES RESEARCH & INFORMATION CENTER, HEBBAL, BENGALURU				
1	04.12.2016	K.N. Prabhudeva	Bio-product based aquaculture	DD-Bengaluru
2	09.12.2016	K.N. Prabhudeva	Fish production by using agriculture waste	'E'-TV Kannada
3	15.03.2016	K.N. Prabhudeva	Using rejected vegetable and fruit as a livestock feed	'E'-TV Kannada
4	08.03.2016	K.N. Prabhudeva	Value added products of prawn	DD-Bengaluru
5	09.03.2016	K.N. Prabhudeva	Fish rearing in saline, alkaline and water logged areas	DD-Bengaluru
6	11.07.2016	K.N. Prabhudeva	Value added products of fish and prawn and women entrepreneurship	DD-Bengaluru
7	08.12.2016	K.B. Rajanna	Production of stunted fish carps	'E'-TV Kannada
8	11.12.2016	K.B. Rajanna	Use of stunted fish carps for the better survivelity and production of fish	DD-Bengaluru
9	12.12.2016	Chetan, N.	Management of water quality in fish rearing	'E'-TV Kannada
10	15.12.2016	Chetan, N.	Importance of water quality in fish rearing	DD-Bengaluru
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA (KVK-DK)				
1	14.05.2016	Harish Shenoy	Importance of Puddling in Paddy Land Preparation	DD-Chandana
2	14.05.2016	T.S. Annappaswamy	Ornamental fish rearing, dairy, piggery and poultry farming	DD-Chandana
3	14.05.2016	Shivakumar Magada	Integrated farming system	DD-Chandana
4	October, 2016	Shivakumar Magada	Fish culture in water logged soils	Spandana-TV
5	Nov., 2016	T.S. Annappaswamy	Ornamental fish breeding and rearing marketing	Spandana-TV

ABSTRACT OF RADIO TALKS AND TV PROGRAMMES DURING 2016-17

#	*College/Institute*	*Radio Talks*	*TV Programmes*	*Total*
1	Veterinary College, Bengaluru	21	28	**49**
2	Veterinary College, Bidar	1	3	**4**
3	Veterinary College, Shivamogga	9	5	**14**
4	Veterinary College, Hassan	6	3	**9**
5	Dairy Science College, Hebbal, Bengaluru	2	-	**2**
6	College of Fisheries, Mangaluru	-	4	**4**
7	IAH&VB, Bengaluru	3	1	**4**
8	FRIC, Hebbal, Bengaluru	1	10	**11**
9	FRIC, Hesaraghatta, Bengaluru	2	-	**2**
10	FRIC, Bhutnal, Vijayapura	2	-	**2**
11	KVK-DK, Mangaluru	7	5	**12**
	Total	**54**	**59**	**113**

5. Animal Health Camps

#	*Name of the College/Institute*	*No. of Animal Health Camps*	*No. of cases treated/advised*
1	Veterinary College, Bengaluru	19	4668
2	Veterinary College, Bidar	28	1044
3	Veterinary College, Shivamogga	70	2847
4	Veterinary College, Hassan	23	1406
5	Dairy Science College, Kalburgi	01	156
6	College of Fisheries, Mangaluru	-	20
7	IAH&VB, Bengaluru	01	40
8	LRIC, Hallikhed	02	50
9	LRIC, Nagamangala, Mandya	01	500
10	CRIC, Timmapur, Bagalkot	-	270
	Total	**145**	**11001**

6. Demonstrations / Exhibitions / Field Days / Pashu / Matsya Mela

#	*Name of the College/Institute*	*No. of Demonstrations*	*Pashu/Matsya Mela*
1	Veterinary College, Bengaluru	`1	Demonstration of poultry feed formulation and visit to poultry farm on 05.05.2016.
		10	Demonstrations of urea enrichment of straw, silage making and stall feeding of sheep.
		5 Fodder field level	Field demonstrations farmers including officials (Total 165) were training in fodder production
		1	Jointly organized by UAS (B), ICAR & NAAS
		1	22-24th Feb., 2017 2 days (Demonstrated Plastinated specimens to the participants) International Agricultural Congress - 2017
		1	Awareness programme for villagers on Rabies (Dr. S. Isloor - 22nd April, 2016)
		1	Awareness programme for public and students on Rabies (6th June, 2016 - Dr. S. Isloor)
		1	Awareness programme for students and faculty on Diagnosis of Rabies (Dr. S. Isloor - 13th June, 2016)
		1	Awareness programme on Zoonoses for students and faculty (Dr.D.Rathnamma - 13th July, 2016)
		1	Hands on Training for Field Vets on "Large Animal Radiography"
		1	Demonstration of Laparoscopic Ovarihysterectomy in dogs for the Veterinarians of Bengaluru
		1	Demonstration of Inhalant General Anaesthesia for Equines for Officers of Army Service Corps, Bengaluru
		1	Exhibition of Dogs recovered after Phacoemulsification and IOL treatment for Cataract
		1	Participated at dog breeding and training school for the passing out parade of dogs and handlers Batch No.16 at CRPF Taralu, Bengaluru

2	Veterinary College, Bidar	18	6
3	Veterinary College, Shivamogga	26	11
4	Veterinary College, Hassan	93	06
5	Dairy Science College, Bengaluru	01	01
6	Dairy Science College, Kalburgi	02	Field demo for milk and milk products at different schools.
		04	At MPCS of KMF
		01	Kinni Sadak (Gulbarga)
		01	Field Demo
7	College of Fisheries, Mangaluru	12	03
8	IAH&VB, Bengaluru	01	Dry fodder enrichment and concentrate feed mixture formulation at Kethalli and Maliyur Village, Chamrajnagar
		01	Dry fodder enrichment and concentrate feed mixture formulation at Honnegowdanahalli and Shivpura Village, Gundlupet
		01	Cattle show as a part of Karavali Utsava. Participated in cattle show for judging.
		01	Dog show as a part of Karavali Utsava, Participated as media spokesperson.
9	IWVR, Kodagu	01	Wildlife Photography Exhibition at College of Forestry Ponnampet, Virajpet Taluk Koagu Dist on 05.10.2016
		01	Wildlife Photography Exhibition at Post Graduate Centre, Mangaluru University, Chikkaluvara, Kodagu Dist. on 06.10.2016
10	FRIC, Hesaraghatta	-	03 – Exhibits
11	FRIC, Ankola	04	Put up FRIC (M) Stall at Maltsyamela-2016 organized by UAS, Dharwad held during 24th-27th September, 2016
		02	Put up FRIC(M) stall at Mega Fisheries Exhibition-2017 organized by FRIC, Bhutnal during 4th-5th February, 2017

		03	Put up FRIC(M) Stall at Udupi Matsyamela-2017, Malpe beach held during 3rd-5th March, 2017
12	LRIC, Nagamangala, Mandya	08 Demonstrations	-
		14 Field days	
13	CRIC, Timmapur, Bagalkot	01	In mela, 4 CRIC dogs kept for exhibition along with display boards and distributed brochures
		01	In mela, 4 CRIC dogs kept for exhibition along with display boards and distributed brochures
		01	In mela, 5 CRIC dogs kept for exhibition along with display boards and distributed brochures
14	KVK, Dakshina Kannada	10	12
15	AHP, Shiggaon, Haveri	19	03
	Total	**240**	

7. Animal Health Care Services to Farmers

College / Institute	*Service Provided*	*Total Nos.*
Veterinary College, Bengaluru	Visitors have been given advice on project making, farming, demonstrations of urea enrichment of straw, silage making, sheep stall feeding etc	250
	Dr. D. Rathnamma involved in monitoring 10th and 11th phase FMD vaccination programme in Chikkaballapur District on 12th April, 2016 and 4th November, 2016 under FMD -Control programme as per the order from Commissioner, AH&VS, Govt. of Karnataka.	02
	Health coverage to small animal, Small and large ruminants, poultry and birds.	52939
	Vaccinations to pets	4330
	Small Animals treated by Department of Veterinary Medicine	36748
	Large animals treated by Department of Veterinary Medicine	1528
	Treatment of Surgical diseases in Small, Large and Wild Animals	9,593
	Treatment of fracture of fore limb in an elephant (Sidda) at Manchanabele, Ramnagar Taluk	-
	Gelding of 5 horses at KARP mounted company, Mysuru	-
	Monkey menace control at BBP Bannerughatta	-
	Treatment of bulls at Nandini Sperm Station, Karkolu, Hesaraghatta	-
	Rumenal cannulation for a she buffalo for ALTECH research programme at department of LPM	-
	Treatment of Tiger VISHNU and Lioness ANU at Bannerghatta	-
Veterinary College, Bidar	VSR	16121
	VGO	
	VMD	
	TVCC	

Veterinary College, Shivamogga	Surgical treatment/interventions/ operations in OPD/OT for the year 2016-17 (01.04.2016 to 31.03.2017)	2188
	Diagnosis of reproductive ailments of both large and small animals and their treatment, Pregnancy diagnosis	1022
	Artificial Inseminations	138
	Diagnosis of reproductive ailments of both large and small animals and their treatment, Pregnancy diagnosis and AI	350
	Diagnosis of reproductive ailments of both large and small animals and their treatment, Pregnancy diagnosis and AI	572
	Treatment of medical, surgical and gynaecological diseases and disorders, pregnancy diagnosis, artificial insemination, vaccination.	6992
	Treatment of medical, surgical and gynaecological diseases and disorders, pregnancy diagnosis artificial insemination, vaccination.	623
	Treatment of ailing animals in the medicine unit of Veterinary College Hospital	3804
Veterinary College, Hassan	Visit to Sakleshpura for disease investigation (during adverse reactions to FMD Vaccination) on 20th November, 2017	1
	Consultancy and treatment of livestock in association with IFFCO Kisan Sanchar Limited and H2H foundation	130
	Dipping of goats and sheep-Yashodavana Goat farm	1
	De-worming of calves	12
	De-worming of cows	32
	De-worming of sheep	440
	Artificial inseminations, pregnancy diagnosis, treatment of reproductive problems and caesarian	1388
	Major surgery -191, Minor surgery – 114, Treatment to ailing animals -1423 and educating farmers regarding diseases prevention and control	1728

	Treatment to ailing animals and educating farmers regarding diseases prevention and control	600
	Treatment to ailing animals and educating farmers regarding diseases prevention and control	6443
Dairy Science College, Kalburgi	Sub-clinical mastitis testing demo at Hebli, Kinni Sadak, Padasavalagi, Kachapur (Yadrami), Dongaragaon (Gulbarga) under CMP programme	5
College of Fisheries, Mangaluru	From Dept. Aquaculture - Advise has been given to the food fish/ornamental fish farmers to treat diseases (especially parasitic, fungal and bacterial diseases) in their fish farms	20
LRIC, Nagamangala, Mandya	Health care during Field Visit	253
CRIC, Mudhol, Bagalkot	Consultancy Service to local Mudhol hound dogs	810
	Total	**149063**

8. Diagnostic Services Provided

#	*Institution*	*Diagnostic Services provided*	*Total Numbers*
1	Veterinary College, Bengaluru	Physical and chemical composition evaluation of the tender samples of feed ingredients, feed/fodder samples of Dept. of AH&VS, GOK	70
		The vetero legal cases referred to the dept. of anatomy, the suspected samples like skins, nails, horns, tusks and bones etc. received were examined and reports submitted to the police and forest/concerned officials.	15
		Faecal sample examination	83
		Blood sample examination	504
		Identification of parasites (Wild animals and Humans)	4
		Skin Scrapings	2
		Wild life samples	11
		ABST, RBPT for Brucellosis	81
		SID test for Tuberculosis	77
		ABST	3
		ABST	1
		RBPT for Brucellosis	7
		ABST	3
		RBPT for Brucellosis in Dairy Animals	9
		RBPT for Brucellosis	3
		RBPT for Brucellosis	1
		ABST	1
		ABST	3
		ABST	1
		ABST	5
		Canine -Microscopic Examination, & ABST	7
		Bovine - Microscopic Examination & ABST	1
		RBPT for Brucellosis	65
		RBPT for Brucellosis	1
		HA &HI titre for New castle Disease	8
		RBPT for Brucellosis	1
		ABST	1
		ABST	1
		ABST	1
		ABST, and Culturing	6
		RFFIT for Antirabies antibodies in serum Cat – 39 Dog – 130	169
		DFA for diagnosis of Rabies in brain samples Cat-3, Dog-81, Bovine-7, Equine-1, Wild Goat-2	94

2	Veterinary College, Bidar	Radiographs	523
		Ultrasonography	212
		Optholmoscopy	7
		Endoscopy	4
		Post-mortem	127
		ECG	36
		Animal Blood sample analysis	914
		Serum sample analysis	31
		Animal Faecal sample	1726
		Skin scrapings	261
		Microbial and Anti microbial assays	-
		Blood Zoonotic diseases	12
		ABST	268
		Histopathology / Cytology	25
		Urine analysis	27
		Ruminal fluid	385
		Water Samples	10
		Milk / meat samples	105
		Pus Sample	118
		worms for identification	-
		filter paper quality testing /Swab samples	292
		Pregnancy Diagnosis	408
		Vaginal discharge	37
		Nasal sample	3
		Others	2
3	Veterinary College, Shivamogga	Samples analyzed	1032
		Post mortem	115
		Radiography	236
		C arm image intensifier	10
		Pregnancy diagnosis, Ultrasonography, Laboratory tests	196
		Laboratory examination/tests of clinical samples comprising, Faeces, blood, serum, rumen fluid, urine, milk, skin scraping, vaginal mucus, pus, nasal discharge	1158
		Examination of feces, blood, serum, ruminal fluid, milk, urine, skin scrapping and nasal scrapping	1147
4	Veterinary College, Hassan	Blood, urine, milk, ruminal fluid, ECG, fecal sample	854
		Screening of samples for detection and isolation of various pathogens and antimicrobial sensitivity (ABST – 19, BQ – 16; HS – 6; Mastitis – 7; Anthrax – 2; Actinomycosis – 1; Brucellosis – 8).	124
		Screening of blood and urine samples	280
		Screening of milk samples for sub-clinical mastitis	2346
		Screening of fecal samples	86
		-	327
		Post-mortem examination of various animals and birds: Cattle-16; Buffalo-2; Sheep-45; Goat-12; Poultry-274;	433

		Rabbit-38; Pig-13; Dog-6; Fish-25; Donkey-1; Deer-1	
		Clinical analysis of samples: Blood - 3 Urine – 6; Cytology – 76; Histopatholgy – 143	228
		Field visits/post mortems/Disease investigation (Outside college): Forest Department-2; Dept. of AH & VS-1; LRIC, Konehalli-1; Other farms-30	34
		Ultra sound scanning-79; C-Arm-318; Ophthalmic microscope-18	415
		Screening of faecal samples–15; Blood samples-124; Skin scrapings –1; Identification of external parasites-5; Identification of wild life parasites from zoo-1; Identification of smear / samples from related departments of Veterinary College, Hassan -10	155
		Diagnosis and treatment aspects of OPC, Cyanide and Nitrate poisonings in livestock	20
		Haematological analysis and ECG	250
5	College of Fisheries, Mangaluru	From Dept. Microbiology - Diagnostic services provided to shrimp farmers on the health status of shrimp seeds and cultured shrimps	85
6	IWVR, Kudige	Faecal sample examination for parasitic infestation in captive elephants, deers and pea fowls Elephant camp Dubare, Elephant camp Sakrebail, TLS Tyavarekoppa and Indira Priyadarshini Mini zoo Angodu, Davanagere	134
		Urine sample examination for parasitic infestation in captive elephants of Elephantcamp Sakrebail	11
7	KVK, Dakshina Kannada, Mangaluru	Soil Sample	331
		Water Sample	186
		Problamatic field visit	49
8	FRIC, Ankola, Uttar Kannada	Water testing for Salinity, p^H and Temperature	12
9	FRIC, Bhutnal	Diagnosis of fish	12
10	LRIC, Nagamangala	Disease diagnosis	130
11	CRIC, Mudhol	Ultrasonography for scanning	35
		Total	**17203**

9. Supply of chicks/animals/fish/fodder seeds/root slips/other farm produce to farmers

#	*Department/Farm*	*Supplied item and Quantity*	*Remarks (Amount Collected-Rs)*
1	Veterinary College, Bengaluru	Department of ILFC:	
		Cattle Nos. - 14 Sheep Nos. - 04 Piglets Nos. - 336 Root slips Nos. - 1,12,000/-	1,12,000.00
		Department of LPM:	
		Fodder Root slip/stem cuttings Nos. - 1,50,000	1,08,000.00
		Department of PSC:	
		Day old chicks Nos.- 125121+2262	20,50,125.00
		Day old parent chicks Nos.-11850+304	14,81,250.00
		Hatching eggs Nos.-34822	3,39,595.00
		Table eggs Nos.-16982	67,928.00
		Broken eggs Nos.-2888	7,220.00
		Feed Kg.-186111	44,63,431.00
		Yellow Maize tons -4	63,560.00
		Soya bean meal tons -2.349	78,929.00
		Manure tons -22	3,300.00
		Birds Nos. - 7039	14,99,560.00
		Paddy husk -5619	43,844.00
		Gunny bags	11,038.00
		1st week day old chicks Nos. – 480	13,440.00
		2nd week day old chicks Nos. - 4157	2,08,185.00
		3rd week day old chicks Nos. - 3614	1,62,630.00
		4th week day old chicks Nos. - 8842	5,07,540.00
		5th week day old chicks Nos. - 6235	4,09,670.00
		Total	**1,14,11,245.00**
2	Veterinary College, Bidar	Department of IFLC:	
		Cow milk : 6254.8 liter	1,57,424.00
		Buffalo milk: 1713.0 liter	51,3 90.00
		Sheep Nos.- 10	23,900.00
		Cattle Nos.- 05	35,300.00
		Buffaloes Nos.- 03	13,600.00
		Backyard eggs Nos.- 499	1497.00
		Japanese quail eggs Nos.- 911	911.00
		Cashew Trees Nos.- 134	55,000.00
		Mango Trees Nos. 117	19,000.00
		Total	**3,58,022.00**

3	Veterinary College, Shivamogga	Department of ILFC:	
		Sale of Piglets and Pigs (94 Nos.)	3,34,820
		Sale of dairy animals and milk Animals sale- 11 Milk 70 l/day	8,69,914
		Sale of sheep and goat (30 nos.)	1,47,914
		Green fodder production Sale of paddy (39.49 quintal) Paddy dry fodder (2.5 ton) Maize (220.0 quintals) Dry maize cob (2.0 t) Dry maize straw (4.0 t) Sale of root slips (2000 Nos.) Sale of FYM (2.5 ton)	43.20 ton 63,200 2.5 ton 220.0 quintals 2.0 ton 4.0 ton Rs. 1000/- Rs.4000/-
4	Veterinary College, Hassan	Pig – 175; Sheep – 15; Goat – 08; Poultry - 204	
		500 tree saplings supplied to the trainee participants and other farmers	500 fodder tree saplings
		Rams	22
		Sesbania Fodder seeds	10 kgs
5	Dairy Science College, Kalaburgi	Six varieties of fodder seeds supplied to four farmers one Sedam Tq and three Aland Tq of Gulbarga dist. (Fodder seeds supplied for two guntas in each varieties)	This activity was carried out under Sujala-III programme from our college
6	College of Fisheries, Mangaluru	Catla fingerlings: 11,000	Supplied good quality fish seeds to the farmers and educated them about scientific fish culture so as to enable them to get better fish production
		Rohu fingerlings:10,000	
		Common carp fingerlings:18,000	
		Ornamental fishes: 1500	
7	KVK, Dakshina Kannada	*A. Chicks/animals/fish/fodder seeds/root slips*	-
		Poultry Birds - 3668 Nos.	-
		Piglets - 61 Nos.	-
		MO4 Paddy seeds - 2040 kg	-
		Drum stick Seedlings - 233 Nos.	-
		Green gram Seeds - 70 Kg.	-
		Buckram Seeds - 30 Kg.	-
		Yard long bean - 1.180 Kg.	-
		Bhendi seeds - 8 Kg.	-
		Coconuts - 4997 Nos.	-
		Trichoderma - 81 kg.	-

		FYM - 164 Cft.	-
		B. Other farm produce	
		Milk - 19963.50 Liter	-
		Bulk Paddy - 260 Kg.	-
		Bottle Guard – 6 Kg.	-
		C. Auction sale of Plucking fruits	
		Mango fruits crops - Rs. 16000/-	16000.00
		Jack fruit crops - Rs. 2700/-	2700.00
		Tamarind crops - Rs. 400/-	400.00
		Cashew fruits crops - Rs. 250/-	250.00
		Supota fruits crops - Rs. 200/-	200.00
8	LRIC, Nagamangala	50 Elite Breeding Mandya Rams	Under Mega Sheep Seed Project on Mandya Sheep (ICAR funded Project)
		360 Fodder Root slips	To the needy farmers
9	LRIC, Hallikhed	Fodder seeds/root slips/stem cuttings – 79 farmers	-
		Mudhol Hound pups – 3 farmers	
		Deoni cattle – 49	
		Deoni bull calves – 3 (LBTC Dharwad)	
10	CRIC, Mudhol	Mudhol hound pups-487 (229M & 258F)	Distributed pups to 244 beneficiaries under SCP-TSP
11	FRIC, Bhutnal	No of fish seed 3,47,475=00 Receipts 3,12,995=00	3,12,995/-
12	FRIC, Hesaraghatta	Fish seed - 1,10,785 Nos. Ornamental fish - 25,566 Nos.	-
		Total	**1,35,22,660/-**

10. Consultancy / Advisory Services

#	*College / Institute*	*Total Number*	*Remarks*
1	Veterinary College, Bengaluru	200	Problems were tackled regarding Feed and Fodder production, Processing and Preservation, Feed formulation for livestock and poultry
		280	Advised farmers of various farming activities on daily basis
		-	Committee member for purchase of Twenty Bandur sheep under RKVY Project
		-	Committee member for purchase of Two Dorper Ram under RKVY Project
		-	Accompanied Deputy Director, SLBTC, Hessaraghattta for purchase of 50+10 Landrace and LWY Breeder Pigs under RKVY Project
		185	Dairying, sheep, goat, pigs, rabbit and Fodder and otherrelated fields
		50	Dr. Jayanaik
		125	Livestock Production and Management aspects
		3	Prabha Eye clinic and Vittal International Institute of Opthalmology
		2	Dept. of Entomology, UAS, GKVK, Bengaluru
		2	Dr. Leena, G., Associate Professor and Head, Dept. of Veterinary Public Health and Epidemiology, Veterinary College, Bengaluru served as Nodal officer for FMD-CP for Mandya district of Karnataka, visited various villages of Mandya district on 13th Apr 2016 (10th round of FMD-CP) and 11th Nov., 2016 (11th round of FMD-CP) for effective implementation of the FMD control programme and verified fall the details pertaining to FMD control programme.
		110	Mortality / disease investigation (Poultry farmers)
		52	Mortality / disease investigation (Dairy farmers)
		173	Mortality / disease investigation (Pet owners)
		-	Routine cases presented to OPD- Clinics
		300	Addressed the field problems faced by farmers and field Veterinarians, personally by Phone, e-mail and SMS.
2	Veterinary College, Bidar	232	Feeding
		344	Management
		089	Breeding
		2,640	Treatment
		276	Ext/ economics/ others
		117	Disease investigations

3	Veterinary College, Shivamogga	742	Disease Investigation and Scientific advise
			Isolation studies & ABST of clinical samples
			Isolation studies & ABST of wild-life samples (Lion safari of Thyavarekoppa and Elephant sanctuary, Sakrebylu)
			Diagnostic field visits :02 Visited Basavapura village, Channagiri Taluk, Davanagere Dist. for disease investigation on 01.12.2016. 2. Visited Vinay Kulkarni Dairy Farm, Dharwad (Hon'ble Minister for Mines, GOK) for disease investigation on March-2017.
			Fat and SNF problem in milk and Value addition of milk
			Flunixin meglumin toxicity in about 20 sheep
			Urea toxicity in bullock
			Etharyl (Ethylene glycol) toxicity in sheep grazing in Pomegranate field
			Treatment of rubber plant toxicity in dairy cattle
			Treatment of coconut oil toxicity in cattle
			Treatment of *Ficus tsjahela* toxicity in cattle
		26	Consultancy services provided by visiting to the spot and over the telephone to farmers for animal disease diagnosis, medical management, herd management and prophylaxis treatment.
			Visits and consultations services were also provided to nearby wildlife facilities in chemical restraining, disease diagnosis, health care
4	Veterinary College, Hassan	1075	Advisory service to livestock farmers on scientific rearing of cattle, buffalo, sheep, goat, pig, rabbit, layer chicken, broiler chicken, backyard poultry production; prevention and management of poisoning cases in livestock; consultancy service to zoo and polytechnic college. Consultation over telephone was provided to field veterinarians and commercial farmers. Extension advisory services to livestock farmers on bankable project report preparation, input procurement. Distribution of literatures like, leaflet, folders, pamphlet, booklet to farmers on scientific livestock farming.
5	Dairy Science College, Bengaluru	11	-
		1	The sample showed presence of higher counts of mesophilic spores
		6	Pasteurized samples showed nil count of coli form and yeast & molds while raw samples had 4 log cfu_{10}/ml of coli forms and 1 log cfu_{10}/ml
		1	Successfully carried out the work

6	Dairy Science College, Kalburgi	8	These programmes were carried in 08 different village on CMP, Role of green fodder in Milch Animals, Stall Fed Goat Farming and "Role of Animal Husbandry in sustainable Agriculture"
7	College of Fisheries, Mangaluru	45 fish farmers	Consultancy was given to the farmers about culture of fish, prawn, shrimp, crab and ornamental fish
		1	Information on land allocation for Integrated fish farming for starting up new fish farm at Mandya (Dr. E.G. JAYARAJ)
		900 samples	Shrimp health status/pathogens, control/ management measures; on water quality parameters and steps to be taken to prevent waterborne infections. A revenue of Rs. 9.92 lakhs generated by sample analysis.
		40	St. Agnes Pre University College, Mangaluru - Identification of finfish and shellfish
		45	Canara College, Mangaluru -Identification of finfish and shellfish
		50	St. Alosius Pre University College, Mangaluru - Identification of finfish and shellfish
		35	Identification of finfish and shellfish -Kuvempu University, Shivamogga
		30	Identification of finfish and shellfish -Mangaluru University,
		4	2 Advisory sevicees in Aquacultural Engineering were given to Fishermen from kundapur 2 Advisory sevicees in Fishing and Navigation system were given to local fishermen of Mangaluru
8	IWVR, Kodagu	07	Advice on health management and faecal and urine examination for parasitic infestation
9	KVK, Dakshina Kannada	1409	Consultancy provided to farmers through Telephone on Technical aspects of Agriculture and allied entreprises
10	FRIC, Bhutnal	1234	Information about fish farming, pond construction, water quality aspects, availability of traditional feed, Utilization of fish of edible and Non edible parts in preparing value added products, etc.
11	FRIC, Hesaraghatta	85	Fish culture, disease, fish mortality in tanks, pond construction, fish culture in ponds and tanks, disease, etc.
12	LRIC, Nagamangala	118	An average of 50 phone calls is being attended to give the information on Sheep rearing and management.
13	LRIC, Hallikhed	211	Scientific livestock management practices
14	CRIC, Thimmapur	125	Mudhol Hound Dog Rearing
15	AHP, Shiggaon	66	Answering to doubts and queries of farmers regarding various animal husbandry practices, establishment of new farms, preparation of project reports etc.
	Total	**11455**	

11. Activities on Village/Farm Adoption

VETERINARY COLLEGE, BENGALURU

#	*Place & Date*	*Title of the Training Programme*	*No. of participants*	*Organizers*	*Scientist*
Dept. of LPM					
1	Rajghatta, Doddaballapur 21.02.2017	Schedule of rural Dairy experience programme and NSS programme – Animal feed and fodder production	100 Nos.	Dairy Science College, Bengaluru and Milk Cooperative Society, Doddaballapur	Dr. Mahadevappa, D. Gouri

Dept. of VAHEE

The department coordinates extension activities in the adopted village, Yeliyuru of Devanahalli;

1. Distribution of chicks
2. Distribution of root slips
3. One animal health camp organized
4. One interactive session on scientific livestock farming was organized

VETERINARY COLLEGE, SHIVAMOGGA

Ambulatory Clinical services were provided on every Monday and Tuesday at Sugur Village, Shivamogga, through ambulatory visits by the TVCC and the staff of clinical departments. Treatment of sick animals, de-worming, ectoparasitic control, minor surgical treatment, pregnancy diagnosis, examination and treatment for gynecological problems such as repeat breeding, anoestrus and metritis are being made.

VETERINARY COLLEGE, HASSAN

Halekoppalu village of Hassan taluk being the adopted village of Veterinary College, Hassan extension activities were carried out in the village. Regular ambulatory services were provided on Monday and Thursday of the week. Animal health camps and calf de-worimg camps were carried out. Staff research projects namely, Promotion of intensive cultivation of Sesbania and Erythrina fodder tree crops for improving the efficiency of production of Dairy Cattle in Hassan taluk; Utilization of COFS29 for fodder and seed production in Hassan taluk are in progress in the village. Likewise, a demonstration on effect of calf starter feed in calf management was done.

DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)

a) During Rural Dairy Work Experience programme arranged at Rajaghatta village, Doddaballapura Taluk from 20th February, 2017 to 1st March, 2017, teaching staff of the department assisted the IV year students to adopt clean milk practices at producers place.
b) A lecture was delivered by Dr. B. Ramachandra to the milk producers of the village regarding 'CMP' on 28th February, 2017.
c) At the same village NSS programme was arranged by NSS programme officer also Assistant Professor of the department Ms. Malashree, L., wherein students educated the families about vaccination of Measles and Rubella for children up to 5 years of age.
d) A survey was completed with the help of a questionnaire to find the awareness of the villagers regarding use of fermented milk in daily diet. The result has been complied and showed awareness about fermented milk products especially dahi and buttermilk, their use and benefits in human health among 66.3percent of the families of the village. For others health enefits from curd was extended. Students also extended their knowledge to the villagers about preparation of shrikhand during flush season.

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

#	*Name of the ADDL and ICs*	*Name of the village adopted*
1	ADDL and IC, Mysuru	Mellahalli Village of Mysuru Taluq, Mysuru District
2	ADDL and IC, Bellary	Halakundi Village of Bellary Taluq, Bellary District
3	ADDL and IC, Mangaluru	Moodusidde Village of Mangaluru Taluq, Mangaluru District
4	ADDL and IC, Shivamogga	Hosahalli Village of Shivamogga Taluq, Shivamogga District
5	ADDL and IC, Kalaburgi	Srinivasa Saradagi Village of Kalaburgi Taluq, Kalaburgi District
6	ADDL and IC, Bidar	Asattagi Village of Bidar Taluq, Bidar District
7	ADDL and IC, Belgaum	Shinadoli Village of Belgaum Taluq, Belgaum District
8	ADDL and IC, Davangere	Naganuru Village of Davangere Taluq, Davangere District
9	ADDL and IC, Sira	Verapura, Sira Taluk, Tumkur district
10	ADDL and IC, Kolar	Arabikothpur, Kolar Taluk and district
11	ADDL and IC, Sirsi	Kadabal, Sirsi Taluk, Uttara Kannada district
12	ADDL and IC, Bagalkote	Budhihal, Bilagi taluk, Bagalkote district
13	IAH and VB, Bengaluru	Devanagundi Hosahalli, Hosakote taluk, Bengaluru Rural district

In the villages adopted by ADDL and IC, Regional Research Officers are involved in

1. Involved in complete vaccination programme.
2. Conducting awareness programme about diseases and vaccination at farmer's door.
3. Conducting Animal Health camps.

KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

1. On Farm Testing (OFT) Implemented:

#	*Title of OFT*	*No. of trials*	*Area (ha.)*	*Villages*	*Taluk*
1	Assessment of high yielding variety of Ginger	3	0.6	Machina, Mittbagilu	Belthangady Taluk
2	Management of quick wilt in pepper	5	04	Uppinangady	Puttur

2. Front Line Demonstrations (FLDs) Implemented:

#	*Title of FLD*	*Number of Demo*	*Area (ha.)*	*Villages*	*Taluk*
1	Zinc management in Paddy	10	4.0	Naravi	Bantwal Tq.
2	ICM in Pepper	05	1.0	Manchi	Bantwal Tq.
3	ICM in Paddy	10	4.0	Neerude	Mangaluru
4	ICM in Coconut	05	1.0	Sajeepa	Bantwal Tq.
5	ICM in Arecanut	05	1.0	Balpa	Sullia
6	Composite fish culture of carps with *pangassius sutchi*	04	0.4	Amtur,Venoor/ Murullia, Perumornadu	Bantwal, Sullia, Belthangady
7	Integration of poultry with fish farming	03	0.3	Kombaragrama, Ujire, Badaganur	Belthangady
8	ICM in Jasmine	5	0.5	Neerodi, Mangaluru	Mangaluru
9	Introduction of high Yielding variety of Amarathus	05	01	Meramajalu	Mangaluru
10	Introduction of high yielding variety of Yard Long Bena	05	01	Vagga	Belthangady
11	Ornamental fish rearing	05	-	Bettampadi, Badaganur, Paduvanur, Bellare, Belthangady	Belthangady
12	Management of inflorescence die back and inflorescence catepiller in Arecanut	05	0.5	Vitla, Puttur	Puttur

3. Front Line Demonstrations (FLDs) Implemented under NFSM

#	*Title of FLD*	*Number of Demo*	*Area (ha.)*	*Villages*	*Taluk*
1	Short Duration Green gram Var. IPM-2-14 for paddy follows	25	10	Nadavala bailu, Kaliya, Naravi, Tenkamijaru	Mangaluru

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

1. Dr. Chandrakant Lingadhal explained Centers activities and shrimp culture practices to Diploma students of Diploma Agriculture College, Kumta on 30.05.2016 (23 students visited the Centre).
2. Dr. Chandrakant Lingadhal explained Centers activities and shrimp culture practices to B.Sc.(Agri) II year students(48 Nos.) & Diploma students (18Nos.) of UAS, Dharwad on 1.04.2016 (66 students visited the Centre).
3. Dr. Chandrakant Lingadhal explained Centers activities and shrimp culture practices and Paddy cum fish culture to Mr. Padurang B Naik, Commissioner of Agriculture, Bengaluru on 18.08.2016
4. Dr. Chandrakant Lingadhal explained Centres activities and shrimp culture practices to B.Sc.(Agri) II year studentsofUAS,Dharwad on 26.10.2016 (65 students visited the Centre).
5. Dr. Govind M Salaskar explained the Brackish water fish/shrimp culture to visiting Higher Primary School students of Bunder,Ankola on 31.12.2016
6. Dr. Chandrakant Lingadhal explained Centres activities and shrimp culture practices to NCC students of PMPU College, Ankola on 24.01.2017 (96 students visited the Centre).
7. Dr. Chandrakant Lingadhal handling the course entitled “Meenu Sakanike” for Diploma Agri students at College of Diploma in Agriculture, Kumta during 2016-17.

Information and guidance provided to B.Com and SSLC students for project work

#	*Name of the student and School*	*Date of Visit*	*Explanation & Information provided*
1	Kushama V Naik Akshata B Bant Arya H Narvekar Sandya Ager Nagaratna Gouda Govt. first Garde College,Pujoogeri,Ankola	3.08.2016 8.09.2016	Fisheries Information for Project work: Polyculture
2	Mr.Raghvendra VNaik PM High School,Ankola	18.10.2016	Brackish water shrimp farming.
3	Miss Sahana N Naik PM High School,Ankola	19.10.2016	Environmental friendly brackish water fish polyculture
4	Miss Pallavi D Naik PM High School,Ankola	19.10.2016	Better Management practices in shrimp farming
5	Miss Rishita S Ankolekar PM High School,Ankola	19.10.2016	Fresh water prawn farming
6	Miss Veena S Gouda PM High School,Ankola	19.10.2016	Brackish water shrimp farming: Problems & Solutions

7	Miss Sahana D Naik PM High School,Ankola	24.10.2016	Environmental friendly brackish water fish polyculture
8	Miss Meghana N Naik PM High School,Ankola	26.10.2016	Brackish water shrimp farming: Problems & Solutions
9	Miss Suma L Goankar PM High School,Ankola	26.10.2016	Environmental friendly brackish water fish polyculture
10	Miss Nayana N Mehta PM High School,Ankola	26.10.2016	Better Management practices in shrimp farming
11	Miss Sindhu H Naik PM High School,Ankola	26.10.2016	Brackish water shrimp farming: Problems & Solutions
12	Miss Pranjal U Sarang PM High School,Ankola	31.10.2016	Fresh water prawn farming
13	MrPrajwal M Naik PM High School,Ankola	05.11.2016	Environmental friendly brackish water fish polyculture
14	MrRajat S Naik PM High School,Ankola	05.11.2016	Environmental friendly brackish water fish polyculture

CANINE RESEARCH AND INFORMATION CENTRE, TIMMAPUR, MUDHOL

Timmapur village was adopted in current year to encourage the farmers to rear the Mudhol hounds.

Under SCP-TSP scheme 6 beneficiaries were provided with Pups (6 Male + 6 Female) along with Food and Other supplements for one year.

Among the 6 females all have reached puberty and successfully mated and 40 conceived.

One of female has given birth to 6 Female + 1 Male with projected income of 42 thousand. Hence, enhancing the livelihood of the farmer.

Mudhol Hound to India Army, RVC Meerut (UP):

Six dogs (3-Male and 3-Female) were handed over by Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar to Remount Veterinary Centre and College, Meerut for feasibility trial for induction into India Military by Dr. Yathiraj, Dean, Veterinary College, Bengaluru.

Already the pre assessment of dogs has been carried out at ground level by Lt. Karnal Surinder Saini at Canine Research and Information Centre, Mudhol, Bagalkot during the third week of January.

Dogs here receive training on specialized jobs like explosive detection, mine detection, tracking, guarding etc.

12. Distinguished Visitors to the Institutes

#	*Name, Designation & Institute*	*Date*	*Purpose*
VETERINARY COLLEGE, BENGALURU			
1	Altech team visit to Altech Nutrition Research Alliance laboratory	13.03.2017	To review progress of the project.
2	Devi Rao, R. Area Livestock and Natural Resources Advisor, University of California Cooperative Extension, Santa Cruz Counties	19.12.2016	For a study on Dairy Production Systems in India
3	Dr. Subhasis Bandyopadhyay, Station In charge, Eastern Regional Station, IVRI, Kolkata	7^{th} to 27^{th} November, 2016	Resource Scientists and experts for the XX NATIONAL TRAINING PROGRAMME on "Clinical parasitological techniques & molecular methods in the detection of parasitic diseases
4	Dr. Jeyathilakan Professor & Head Department of Parasitology Veterinary College & Research Institute Orathanadu, Thanjavur (District), Tamil Nadu.		
5	Dr. N. Earanna Professor, Dept. of Agricultural Microbiology Agriculture College, GKVK Campus University of Agricultural Sciences Bengaluru		
6	Dr. C. Chinnamade Gowda Junior Acarologist AINP on Agril. Acarology Dept. of Agricultural Entomology University of Agricultural Sciences, G.K.V.K., Bengaluru -		
7	Dr. V. Chengalva Rayulu Professor and Head Department of Veterinary Parasitology College of Veterinary Science, Tirupati-517502, A. P., SVVU		
8	Dr. T.Venkatesan Principal Scientist National Bureau of Agricultural Insect Resources, Hebbal, Bengaluru		
9	Dr. P. P. Sengupta Principal Scientist National Institute of Veterinary Epidemiology & Disease Informatics (NIVEDI), IVRI Campus, Ramagondanahalli, P.B. No. 6450,Yelahanka, Bengaluru		
10	Dr. G.S. Sreenivasamurthy Associate Professor & Head Department of Parasitology College of Veterinary Science, SVVU, Rajendranagar. Hyderabad-500030		

11	Dr. R. Venu Associate Professor Department of Veterinary Parasitology College of Veterinary Science, SVVU Tirupati-517502,A.P		
12	Dr. Anil Kumar, Scientists, Sri. Chitra Tirunal Medical Research Insitutute, Trivendaram, Kerala.	27.02.2017	Technical discussion on International conference 2017
13	Dr.Balasubramaniyan, Prof. & Head, Dept. of Vety. Pathology, Vety. College, Namkal.	26.02.2017	Technical discussion on International conference 2017 External Examiner for M.V.Sc. students
14	Dr. Balachandran, Dean Madras Veterinary College, Chennai	27.02.2017	Technical discussion on International conference 2017 External Examiner for Ph.D. students
15	Dr. Anand Kumar, Prof. & Head, Vety. College, Paddatur, Andhra Pradesh.	03.03.2017	External Examiner for Ph.D. thesis.
16	Sri. Bairathi Suresh MLC	03.02.2017	To visit the Department
17	Dr. C. Renuka Prasad, Hon'ble Vice Chancellor, KVAFSU, Bidar and Dr. M. Devaraj, President, Karnataka Veterinary Council and Member of Board of management, KVAFSU, Bidar	30.04.2016	World Veterinary Day and Inauguration of Antirabies and Animal Birth Control Programme in Veterinary College Hospital
18	Officer on Special duty to the Hon'ble Chief Minister visited the Department	23.03.2017	For the surgical treatment of CM's dog.
VETERINARY COLLEGE, BIDAR			
1	Prof. Pallavi Kesari, Professor and Head, Dept. of Community Medicine, Bidar Institute of Medical Science, Bidar	30.04.2016	Guest Lecture delivered on the occasion of World Veterinary Day
2	Dr. Srinivas Kaveri, French Institute of Health and Medical Research, Paris	08.06.2017 15.06.2016	Dr. R.D. Nanjiah Lecture delivered Development of Campus Development activities of College
3	Dr. Chandrashekhar Pasare, University of Texas		
4	Mr. Ashok Kheni, MLA (Bidar South) Bidar		
5	Dr. Govindaiah, Ex Dean, VCS		
6	Dr. C.R. Chandrashekhar, Eminent Medical Scientist and Expert from National Institute of Mental and Neurosciences, Bengaluru	16.06.2016	Dr. R. D. Nanjiah Lecture delivered
7	Dr. Gajendragad, NIVEDI, Bengaluru	04.08.2016	Guest Lecture delivered

8	Managing Director, Executive Engineer, AEE, AE of GESCOM	13.10.2016	Selection of linemen post in KVAFSU, Bidar sports ground
9	Mr. A. Manju, Hon'ble Minister of Animal Husbandry, Bengaluru	27.10.2016	Meeting with University officials and other GOK departments
VETERINARY COLLEGE, SHIVAMOGGA			
1	Canara Bank Training center, Holulur	01.04.2016 to 31.03.2017	Farmers/training participants visited and saw the different units of ILFC
VETERINARY COLLEGE, HASSAN			
1	Prof. Anthony. R. Fooks, Head, Wildlife zoonoses & Vector Borne Diseases, APHA, Surrey, UK.	24th-25th Feb, 2017	International Conference and for investigating possibilities of establishing a Rabies Diagnostic Laboratory at Veterinary College, Hassan
2	Dr. Ashley Banyard, Scientist, APHA, Surrey, UK		
3	Dr. David Selden, Scientist, APHA, Surrey, UK		
4	Ryan Wallace, Scientist, CDC, Atlanta, USA		
COLLEGE OF FISHERIES, MANGALURU			
1	Dr. Dam Roy Director CARI, Andaman	09.04.2016	Visit to college and to deliver a guest lecture on 'Fish and Fisheries – My Experience'
2	Dr. Anna Godhe Professor, Marine Ecology Department Marine Sciences University of Gothenburg Box 461, SE 405 30 Göteborg, Sweden	05.12.2016	To discuss on the collaborative work
3	Dr. Lucy M.Turner Scientist, Department Marine Sciences University of Gothenburg Box 461, SE 405 30 Göteborg, Sweden	05.12.2016	To discuss on the collaborative work
4	Dr. Sanath K. M. Senior Scientist, Central Institute of Fisheries Education, Mumbai	13.02.2016	To conduct comprehensive viva-voce for Masters students
5	Dr. K. J. Palaksha PhD, Post-doc (South Korea) Professor, Biomedical Research Co-ordinator SDM College of Medical Sciences & Hospital Manjushree Nagar, Sattur-580009. Dharwad, Karnataka, INDIA.	06.03.2016	Visit to college and to deliver talk on Stem cell research

6	Dr. R.T. Patil, Former Director of ICAR – Central Institute of Post Harvest Technology	14.12.2016	To deliver a talk on Recent Innovations in Food Processing with emphasis on fish
7	Dr. B. Mohana Kumar Associate Professor Nitte University Centre for Stem Cell Research & Regenerative Medicine (NUCSReM) K S Hegde Medical Academy (KSHEMA), Nitte University, Deralakatte, Mangaluru- 575 018	27.12.2016	To deliver talk on Stem cell research and also to discuss on the formation of Institutional Biosafety Committee
8	Dr. N. Ramaiah Chief Scientist, Biological Oceanography Division, Naitonal Institute of Oceanography, Dona Paula Goa	21.03.2017	Visit to college and to deliver a talk on Ocean De-oxygenation and Blue Economy
9	Kumari Nagalakshmi Bai Chairman, State Women Commission, GOK, Bengaluru	30.03.2017	Chief Guest for the International Women's Day Celebration In the College
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)			
1	Dr. Jha Director, Model Dairy Plant NDRI, Karnal	25.01.2017	Visit
2	Dr.Shankar P.A. Former DI (PG), KVAFSU	12.11.2016	To orient the PG students of the department regarding research activities
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU			
1	Dr. Redigheh kazeminia, Mr.Nasrin Mahmaudan, from Iranian Veterinary Organization	22.06.2016	-
2	Mr. Alishiri, Managing Director, and Mina Khodadudi, Technical Manager Nojan Mehr.co, Iran	22.06.2016	-
3	Dr. N.N.Sasi, Director, Animal Husbandry, Kerala	08.07.2016	-
LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA (LRIC)			
1	Dr. S.M.K. Naqvi, Director, CSWRI, Avikanagar.	02.11.2016	To review the project activities of Mega Sheep Seed Project on Mandya Sheep in both field and farm flock.
2	Dr. S.V.Singh, Principal Scientist, CIRG, Makhdoom.	04.02.2017	To view the health status of sheep and advice on the control measures for Jhone's disease.

3	Dr. Srinivas, Joint Director, Dept. Of Animal Husbandry and veterinary services, B'lore.	04.03.2017	To view the activities of LRIC(S), Nagamangala.
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA			
1	Shri Nalin Kumar Katil, M.P., D.K. Mangaluru	13.04.2016	Participation in Pradhana Mantri Pasalu Vima Yojana
2	Smt. Shrividya, Chief Executive Officer, DK, Zilla Panchyath, Mangaluru		
3	Sri Ritesh Salian, Board of Management, KVAFSU, Bidar		
4	Dr. H. Kempegowda, Joint Director of Agriculture, DK, Mangaluru		
5	Shri. H.R. Yogish, Deputy Director, Horticulture Dept. D.K. Mangaluru		
6	Dr. K.V. Devaraj, Former Vice-Chancellor, UAS, Bengaluru	24.08.2016	KVK Visit
7	Dr T. Harish, Dy. Director, Spices Board, Haveri, Karnataka	04.10.2016	KVK Visit
8	Dr. Melwin D' Costa., St. Aloysius College, Mangaluru	07.10.2016	KVK Visit
9	Dr.K. Veerana, Professor of Agronomy, UAHS, Shivamogga	17.10.2016	KVK Visit
10	Ms. Gargi Jain, IAS-Probationary	19.10.2016	KVK Visit
11	Mr Sampath Sambrajya, President, Krishika Samaja, D.K.	21.10.2016	KVK Visit
12	Mr Rajavarma Bailangady, President, Krishi Vichara Vinimaya Kendra, Moodabidre		
13	Mr Subhash Chouta, Vice-President, Krishi Vichara Vinimaya Kendra, Moodabidre		
FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA			
1	Dr. K.V. Basavakumar Professor of Fisheries DOR,UAS,Dharward	1.04.2016	B.Sc.(Ag) II year students& Diploma students field visit (Total no. of students:66)
2	Mr. M.L. Doddamani Deputy Director of Fisheries Dept. of Fisheries, Karwar	20.05.2016	Field Visit to Shrimp farm
3	Mr. Thimmappa, M.H. Asst. Director of Fisheries (G-II)Dept. of Fisheries, Ankola	12.07.2016 14.07.2016	For organizing training programme& Discussion
4	Mr. Venkatrama Hegde Asst. Director of Fisheries (G-I),Dept. of Fisheries, Karwar	20.05.2016 12.07.2016	Training purpose& Inspection of Shrimp farm
5	Mr. Honnappa G Gouda Joint Director of Agriculture, Karwar	17.08.2016	Field visit
6	Mr. Padurang, B. Naik, Commissioner of Agriculture, Bengaluru	18.08.2016	Field to Paddy cum fish culture plot

7	Dr. K.V. Basavakumar Dr. N.A. Yeledhalli Dr. R.H. Hanumanaikar Professors, UAS, Dharwad	12.09.2016	Discussion with regard to Matsyamela-2016
8	Dr. K.V. Basavakumar Professor of Fisheries DOR, UAS, Dharward	26.10.2016	B.Sc.(Ag) II year studentsfield visit (Total no. of students:65)
9	Dr. G.N. Hariharan Director –Biotechnology M.S. Swaminathan Foundation, Chennai	5.01.2017	Field survey visit
10	Mr. G.R. Tandel NCC Troop Commander PMPU College, Ankola	24.01.2017	NCC students Field Visit to Centre(96 Nos.)
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA			
1	Dr. Gunnar, District Health Officer (malaria) Vijaypura	03.06.2015	Malaria Control
2	Dr. S.Y. Walli, Programme Coordinator, KVK, Vijayapura	12.07.2016	As Recourse person
3	Dr. B. Manjunath, JD Agri, Vijayapura	12.07.2016	Chief guest for training Programme
4	Dr. SR. Ambakar Vijayapura	27.07.2016	Guest for training Programme
5	Professor. A.A. Nasir, Professor N.D. Bavoor, Professor. S.G. Maldar and Professor. Smt. A.M.Chodari HOD, Zoology, Anjuman, Arts sciences and commerce, Vijayapura	17.02.2017	visitedalong with their Zoology studentsfor study tour
FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA			
1	Dr. R. Hampaiah Chairman Biodiversity Board, Govt. of AP, Hyderabad	20.04.2016	To see the farm activities
2	Dr. R.V. Prasad Vice-Chancellor, KVAFSU, Bidar	27.09.2016	To inaugurate the Training program
3	Dr. S.M. Shivaprakash Director of Extension, KVAFSU, Bidar	27.09.2016	President for Training program
4	Students, Silicon International Public School, Bengaluru	28.10.2016	To visit the Farm
CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR, MUDHOL (CRIC)			
1	Dr. Suresh, S. Honnappagol Commissioner Department of AH and VS Govt. of India, New Delhi	27.07.2016	Visited many times and very happy about the development of CRIC Timmapur
2	Dr. A.B. Patil Registrar UHS, Bagalkot	25.11.2016	Visited and very happy about the development of CRIC Timmapur

13. Important decisions taken during 11th Extension Education Council Meeting held on 28.06.2016

1. Sri. C.V. Lokeshgowda, Progressive Farmer, Bengaluru opined that;

   Blue Tongue Vaccine be made available to farmers whenever the disease outbreak. IAH&VB, Bengaluru made available Blue Tongue Disease Vaccination as per requirement.

   Dissemination of information to the farmers through brochure / pamphlets.

   For sheep and goat rearing training may be identified through the Societies of the village, for the benefit of needy farmers.

   University while distributing small ruminants to the farmers, a minimum of 4 females and 1 male should be distributed for better productivity.

   The success stories of sheep and goat farmers may be published.

2. Dr. S.K. Meti, Director of Extension, UAS, Raichur opined that;

   Field demonstration on integrated farming system be taken up at the progressive farmers' field in collaboration with UAS-Raichur / Dharwad / Bengaluru, UHS-Bagalkot, UAHS-Shivamogga, DAH&VS, Dept. of Horticulture, Dept. of Agriculture, Dept. of Sericulture.

   Extension activities of the university may be increased for the economic upliftment of farming community.

3. Sri. Mahadev Nagure, Progressive Farmer, Bidar opined that the integrated farming demonstration will help in bringing the youth from cities to villages. Animal husbandry activities boost up livelihood security.

IV. PUBLICATIONS

1. Research Papers

i) International Publications

a) In Journals

#	*Authors, Year of publication, Title of the paper and Journal*
	VETERINARY COLLEGE, HEBBAL, BENGALURU
1	Basavanta Kumar, C., Gloridoss, R.G., Singh, K.C., Prabhu, T.M. and Suresh, B.N., 2016. Performance of broiler chickens fed low protein, limiting amino acid supplemented diets formulated either on total or standard ileal digestive aminoacid basis. 2016. *Asian-Australasian Journal of Animal Sciences*, 29(11):1616-1624.
2	Prasanna, S.B., Bhar, R., Rajeshwari, Y.B., Shankarappa Bhajantri and Rudraswamy, M.S., 2017. Feeding frequencies and their effect on behavior of nursing cows. *Journal of Animal Behaviour and Biometeriology*, 5:29-35.
3	Temjennungsang, Sonal Thakur, Prabhu, T.M., Reddy B.S.V., Gloridoss, R.G. and Suresh, B.N., 2016. Performance of goat kids fed detoxified *honge* (*Pongamiaglabra vent*) seed meal based concentrate mixtures. *Animal Nutrition and Feed Technology*, 16:97-106.
4	Basavanta Kumar, C., Gloridoss, R.G., Singh, K.C., Prabhu, T.M. and Suresh, B.N., 2016. Performance of broiler chickens fed low protein, limiting amino acid supplemented diets formulated either on total or standard ileal digestive aminoacid basis. 2016. *Asian-Australasian Journal of Animal Sciences*, 29(11), 1616-1624.
5	Anup Kumar, P.K., Rajeshwari, Y.B. and Tirumalesh, T., 2016. Effect of supplementation of on exogenous fibrolytic enzyme mixture on the feed intake, nutrient digestibility and nitrogen balance in crossbred dairy cattle, *International Journal of Scientific Research*, 5(11):29-31.
6	Anitha, K.C., Rajeshwari, Y.B., Mahadevappa, D., Gowri and Shilpa Shri., 2016. Effect of inclusion of *Azolla Pinnata* on the haematological parameters of broiler rabbits. *International Journal of Applied and Pure Science and Agriculture*, 2(10):93-97.
7	Siddeshwara, N.C., Guruprasad, R., Rajeshwari, Y.B., Abdhul Matheen, K., Udaykumar and Shilpa Shri, 2017. Effect of type of flooring on growth performance of broiler rabbits. *International Journal of Science, Environment and Technology,* 6(1):206-209.
8	Siddeshwara, N.C., Guruprasad, R., Rajeshwari, Y.B., Shivkumar, R., Abdhul Matheen, K., Uday Kumar and Shilpa Shri, 2016. Effect of feeding drumstick (*Moringa oleifera*) tree leaves at different levels on blood biochemical parameters in broiler rabbits. *International Journal of Current Research,* 8(12):44159-44161.
9	Anil Kumar, G., Rajeshwari, Y.B., Jayashankar, M.R., Mahadevappa, D. Gowri, Vivek, M.P. and Shilpa Shri, 2016. Influence of different energy levels on kid mortality in three successive kindling. *International Journal of Science, Environment and Technology*, 5(6):4249-4253.
10	Bhanuprakash, A.R., Rajeshwari, Y.B., Sowmya, S., Naveen Kumar, Sudarshan, V., Supriya, Anupkumar, N., Chandrashekar and Lohith, T.S., 2016. Effect of weaning at different age intervals on the behavioural patterns in large white Yorkshire piglets. *International Journal of Science, Environment and Technology*, 5(6):3695-3701.
11	Shilpa Shri and Rajeshwari, Y.B., 2017. Perceived training needs of veterinary officers in Karnataka – A micro approach. *International Journal of Science, Environment and Technology*, 6(1):217-222.

12	Vinayananda, C.O., Mohamed Nadeem Fairoze, Madhavaprasad, C.B., Byre Gowda, S.M., Nagaraj, C.S. and Nagappa Karabasanavar, 2017. Studies on Occurrence, Antibiogram and Decontamination of Salmonella enterica in Table Eggs. *International Journal of Current Microbiology and Applied Sciences*, Vol. 6(3):2163-2175.
13	Mohankumar, S., Satyanarayan, K., Jagadeeswary, V. and Manjunatha, L., 2016. A comparative study of bacterial load under individual and community milking system in Kolar district of Karnataka. *Asian J. of Dairy and Food Res.,* 35(3):206-209.
14	Mohankumar, S., Satyanarayan, K., Jagadeeshwary, V., Manjunatha, L., Rajeshwari, Y.B. and Rathnamma, D., 2016. Milking Practices Adopted At Personnel Level in Individual and Community Milking System. *Int. J. of Applied and Pure Sci. and Agriculture,* 2(10):1-4.
15	Pavan Belakeri, K., Satyanarayan, V., Jagadeeswary, Mohankumar, S., Yathiraj, S., Veeranna, K.C. and Rajeshwari, Y.B., 2016. Socio-Economic Characteristics and Information Seeking Behavior of Livestock Farmers of Karnataka, India. *Int. J. of Sci., Environment and Technology*, 5(6):4320-4327.
16	Vranda, R., Satyanarayan, K., Jagadeeswary, V., Veeranna, K.C., Rajeshwari, Y.B., Sudha, G. and Shilpa Shree, J., 2017. A study on different housing practices of buffaloes in Bidar district of Karnataka. *Int. J. of Sci., Environment And Technology*, 6(1):295-305.
17	Chandrasekar, G.K., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. Relationship between Socio-Economic and Psychological Factors of Dairy Farmers with Days Open – A Study in Rural Karnataka. *Int. J. of Pure and Applied Bioscience*, 5(1):171-177.
18	Mohankumar, S., Satyanarayan, K., Jagadeeswary, V. and Pavan Belakeri, 2017. Milking Practices Adopted at Equipment Level under Individual and Community Milking System in Kolar, Karnataka. *Int. J. Pure App. Biosci.* 5(1):358-361.
19	Jagadeeswary Vankayala, Lavanya Ramalingia, Satyanarayan Kamardi, Narasimhamurthy, H.N. and Shilpa Shree, J., 2017. Consumption Pattern of Coloured Broiler Birds in Karnataka. *Int. J. of Livestock Res.,* 7(3):10-15.
20	Lavanya, R., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. Socio-Economic, Psychological Characteristics and Constraints Faced by Farmers in Marketing of Coloured Broiler Birds in Karnataka. *Int. J. of Pure and Applied Bioscience*, 5(1):1000-1007.
21	Sakshi, S., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. A Study on Utilization of Services and Technical Information Delivered by Pet Practitioners. *Int. J. of Pure and Applied Bioscience*, 5(1):970-979.
22	Dhoolappa, M., Prasad, R.V., Jamuna, K.V., Narayanaswamy, H.D., Nagaraj, B.N., Chandrashekar Murthy, V., Nagappa, K., Lakshmishree, K.T. and Mahadev Prasad, 2016. Natural and Economic Biodegradation of Poultry Feather Waste, Veterinary Research. *International* 4(1):50-53.
23	Dhoolappa, M., Prasad, R.V., Jamuna, K.V., Dinesh Rangappa, Narayanaswamy, H.D., Nagaraj, B.N., Chandrashekar Murthy, V., Ravi Raidurg, Sundareshan, S., Lakshmishree, K.T. and Bannappa, U., 2016. Development of Bio-Scaffolds for Biomedical Applications. *Materials Today IC Nano Proceedings.* (In press).
24	Shilpa, S., Selvaraju Sellappan, Girish Kumar, G., Parthipan, S., Binsila, K., Krishnan, Arangasamy, A. and Ravindra, J.P., 2017. Novel insights into the role of cell free seminal plasma RNAs (cfs-RNA) on semen quality and cryotolerance of spermatozoa in bulls (*Bos taurus*) Reproduction, Fertility and Development.
25	Tripathi, S.K., Farman, M., Nandi, S., Mondal, S., Gupta, P.S.P. and Girish Kumar, V., 2016. *In vitro* culture of oocytes and granulosa cells collected from normal, obese, emaciated and metabolically stressed ewes. *Animal Reproduction Science,* 170(83-89) Elsevier.

26	Tejaswi, V., Narayana Swamy, M. and Goverdhanasagar, N., 2016. Studies on certain Fresh Semen Characteristics in Rams of Indian Twinning breed – The Nari Suvarna during winter months (Short Photoperiod). *International Journal of Science, Environment and Technology,* 5(3):1697-1706.
27	Tejaswi, V., Narayana Swamy, M., Yathiraj, S., Honnappa, T.G. and Shrikrishna Isloor, 2016. Enzymatic activities in fresh Seminal Plasma and extended refrigerated semen in Nari Suvarna Rams. *Theriogenology Insight,* 5(3):153-156.
28	Bipin, K.C., Ramesh, P.T. and Narayana Swamy, M., 2016. Effect of sodium bicarbonate on subacute ruminal acidosis (Sara) of Milch Cattle. *International Journal of Scientific Research,* 5(5):9-11.
29	Mallappa Talawar, Veena, T., Krishnaswamy, A., Rajeshwari, Y., Puttalakshmamma, G.C., Shridhar, N.B. and Kalmath, G.P., 2016. Hematological profile during late pregnancy and early postpartum period in NARI Suwarna ewes. *National Journal of Life Science,* 13(1):63-64.
30	Mallappa Talawar, Veena, T. and Kalmath, G.P., 2016. Biochemical and mineral profile in NARI Suwarna ewes during late pregnancy and early postpartum period. *International Journal of Science and Nature,* 7(4):772-774.
31	Kalmath, G.P., Narayana Swamy, M. and Yathiraj, S., 2016. Effect of summer stress and supplementation of vitamin E and selenium on serum lipid profile in Hallikar cattle, *International Journal of Science and Research*, 4(9):95-97.
32	Shivaraj, S. Aralikatti, Rathnamma, D., Renuka Prasad, C., Shri Krishna Isloor, Chandranaik B.M. and Narayan Bhat, M., 2016. Tuberculosis diagnosis by staining, isolation and PCR from bovine milk samples. *International Journal of Medicine Research,* 1(2):133-135.
33	Sharada, R., Isloor, S., Balamurugan, V., Veeresh, B.H., Suryanarayana, V.V.S., Manisha, R., Rathnamma, D. and Sathyanarayana, M.L. Expression of Glycoprotein gene of Rabies virus and evaluation of recombinant protein for seromonitoring of vaccinal antibodies in dogs. *International Journal of Infectious Diseases*, 45S:18. doi: 10.1016/j/ijid.2016.02.075.
34	Pramina, K., Veeresh, B.H., Isloor, S., Rathnamma, D., Yathiraj, S., Narayanaswamy, M., Sharada, R., Chaitra, Y. and Hegde, N.R., 2016. Genetic variability of the G-L intergenic region sequences of Indian rabies virus strains circulating in animals. *International Journal of Infectious Diseases,* 45S:238. doi: 10.1016/ j / ijid.2016.02.534.
35	Raju Sunagara, Nagendra, R., Hegde, Ganapuram Jagadishwar Archanab, Akhauri Yash Sinhaa, Kammili Nagamanib and Shrikrishna Isloor. Prevalence and genotype distribution of methicillin-resistant Staphylococcus aureus (MRSA) in India. *Journal of Global Antimicrobial Resistance*, 7:46-52.
36	Karthik, C.D., Rathnamma, D., Chandrashekhara, N. and Veeregowda, B.M., 2016. Application of PCR for detection of *Salmonella* serovars from broiler chickens. *International Journal of Science, Environment and Technology*, 5 (6), 2016, 4263-4267.
37	Karthik, C.D., Rathnamma, D. and Chandrashekhar, N., 2016. Isolation, Biochemical Characterization, PCR, Serotyping and Antibiogram of *Salmonella* from Chickens. *International Journal of Scientific Research in Science and Technology*, 2(6), 2016, 199-203.
38	Ravikumar, C., Sanganal, J.S., Shridhar, N.B., Narayanaswamy, H.D., Ansar Kamran and Ramachandra, S.G., 2016. Determination of withdrawal period of Levofloxacin in liver and breast muscle of dual purpose chicken. *The North East Veterinarian,* 15:23-26.

39	Ravikumar, C., Sanganal, J.S., Shivashankar, B.P., Shridhar, N.B., Ramachandra, S.G., Narayanaswamy, H.D., Sunilchandra and Ranjith, D., 2017. Safety Evaluation of Levofloxacin on Haemato-biochemical Parameters following Repeated Oral Administration in Dual Purpose Chicken. *Indian Journal of Natural Sciences*, 7:12233-12238.
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15	Brunda, S. Murthy, Jayashri Hiremath, P. and Darshan, G.B., 2016. Quality attributes of complementary food prepared using malted wheat and foxtail (*Setaria italica*) millet flours with milk solids. *Int. J. of Sci. Environ and Technol.*, 5(2):765-773.
16	Brunda, S. Murthy, Jayashri Hiremath, P. and Darshan, G.B., 2016. Malted foxtail millet (*Setaria italica*) and wheat flours in the formulation of complementary food. *Int.J.of Sci. Environ.and Technol*, 5(2):708-716.
17	Jadhav, Vijay Prabhakar and Jayashri Hiremath, P., 2017. Development of value added *dahi* with safflower (*Carthamus tinctorius*) milk and probiotics. *Int. J. of Nutr. And Health Sci.*, 2(2):55-60.
DAIRY SCIENCE COLLEGE, KALBURGI	
1	Mahesh Patil, Manjunatha, H. and Ramachandra, B., 2016. Optimization of carrot enriched probiotics srikhand. *Int. J. of Science Environment and Technology*, 5(5):3073-3080.
2	Adarsh, M. Kalla and Devaraju. R., 2017. Microwave energy and its application in food industry: A review. *Asian J. Dairy and Food Res.*, 36(1):37-44.
3	Adarsh, M. Kalla, Krishna, K.N. and Devaraju, R., 2017. Energy Efficient and cost saving practices in dairy industries: A Review. *Int.J. of Applied Engineering Research and Development*, 7(3):1-10.
COLLEGE OF FISHERIES, MANGALURU	
1	Basavaraja, N. and Raghavendra, C.H., 2017. Hormonal sex reversal in red tilapia (*O. mossambica* and *O. niloticus*) and inheritance of body colour in *Oreochromis mossambica* and red tilapia: implications for commercial farming. *Aquaculture International*, 25(3):1317-1331.
2	Amrita Rani, Sathish, R. Poojary, Naveen Kumar, B.T., Abhiman, P.B., Prakash Patil, Ramesh, K.S., Shankar, K.M. and Santhosh, K.S., 2016. Concentrating white spot syndrome virus by Alum for field detection using Monoclonal Antibody based Flow Through Assay. *Journal of Biological Methods,* 3(2).
3	Turner, L.M., Alsterberg, C., Turner, A.D., Girisha, S.K., Rai, A., Havenhand, J.N., Venugopal, M.N., Karunasagar, I. and Godhe, A., 2016. Pathogenic marine microbes influence the effects of climate change on a commercially important tropical bivalve. *Sci. Rep.,* 6, 32413; doi: 10.1038/srep32413.
4	Dubey, S., Avadhani, K., Mutalik, S., Sivadasan, S.M., Maiti, B., Paul, J., Girisha, S.K., Venugopal, M.N., Mutoloki, S., Evensen, O., Karunasagar, I. and Munang'andu, H.M., 2016. Aeromonas hydrophila OmpW PLGA nanoparticle oral vaccine shows a dose-dependent protective immunity in Rohu (Labeo rohita), Vaccines (Basel) 4:21: doi: 10.3390/ vaccines4020021.
5	Dubey, S., Avadhani, K., Mutalik, S., Sivadasan, S.M., Maiti, B., Paul, J, Girisha, S.K., Venugopal, M.N., Mutoloki, S., Evensen, O., Karunasagar, I. and Munang'andu, H.M., 2016. *Edwardsiella tarda* OmpA encapsulated in chitosan nanoparticles shows superior protection over inactivated whole cell vaccine in orally vaccinated fringed-lipped peninsula Carp (*Labeo fimbriatus*), Vaccines (Basel) 4: 40; doi: 10.3390/ vaccines4040040.
6	Udyavara, V., Sivadasan, S.M., Muthappa, D.M., Shivakumaraswamy, S.K., and Venugopal, M.N., 2016. Prevalence and genomic characterization of *Vibrio parahaemolyticus* isolated from molluscan shellfish and their inhabiting water of coastal Karnataka, India. *Int. J. Current Microbiol .and Appl. Sci.,* 5(11):173-182.
7	Prabhu, H.V., Lakshmipathi, M.T., Kidane Teum, Haile Hailemichael, Samuel Btsuamlak, Seret Zeresenay, Ramachandra Naik, A.T. and Ramesha, T.J., 2016. Macro benthos-Sediment Relationship in Intertidal waters of Hirgigo Bay: Massawa, Eriteria, N.E., Africa. *International Journal of Advanced Scientific and Technical Research*, 6(1):303-315.

INSTITUTE OF ANIMAL HEALTH AND VETERIANRY BIOLOGICALS, BENGALURU	
1	Raveendra Hegde, Madhusudan Hosamani, Sreevatsava, V., Rashmi, K.M. Srikanth Kowalli, Nagaraja, K., Dharanesha, N.K., Seema, C.M., Nagaraj, G.V., Srikala, K., Sudharshana, K.J., Shesha Rao, Rajashekar, B., Giridhara, P. and Byregowda, S.M., 2016. Serosurveillance of Foot-and-Mouth Disease in Ruminant Population of, Karnataka, India. *SM Virology*, 1(2).
FISHERIES RESEARCH AND INFORMAITON CENTER, BHUTNAL, VIJAYAPURA	
1	Lakshmi Narasimha Murthy, Girija Gajanan Phadke, Vijaya Kumar Siddaiah, RajannaKarani Boraiah and Chandra Madhamuthanalli Venkataramappa, 2017. Effect of frozen storage and cryoprotectants on functional properties of tilapia fish. *Int. J. Adv. Res.,* 5(3):1597-1606.
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA, MANGALURU	
1	Harish Shenoy, 2016. Response of paddy for selective mechanization in coastal Karnataka: In Extended Summaries, Vol.2: Fourth International Agronomy Congress held at New Delhi, Nov, 22-26, 2016 organised by Indian Society of Agronomy, New Delhi and ICAR, New Delhi.

b) In Conferences / Seminars / Symposia / Workshops etc.,

#	*Year / Authors / Title of Paper/ Conference*
	VETERINARY COLLEGE, BENGALURU
1	Suresh, B.N., Shivakumar, M.C., Nagaraj Naik, Suma, N. and Manjunatha, L., 2016. Performance of layers fed diets supplemented with metheonine producing probiotic micro – organisms. 1st International conference on Tropical Animal Science and Production (TASP 2016): 'Integrated Approach in Advanced Animal Science and Innovation Technology', Bangkok, Thailand, Vol. II, July 26-29, FO0322.
2	Chaithra,Y., Isloor, S., Suryaprasad, V., Rathnamma, D., Srinivasa, K., Reddy, G.S., Veeregowda, B.M., Narayanaswamy, H.D., Shome, B.R. and Kundan, S.P., 2016. 'Evaluation immune response against reduced dose of *Brucella abortus* strain 19 vaccine administered through conjunctival route in cattle'.
3	Leena, G., Rajeshwari Shome, Isloor, S., Ngalingam, M., Balamurugan, V., Reddy, G.R., Rathnamma, D., Jayashankar, M.R., Veeregowda, B.M. and Rahaman, H., 2016. "Cloning, expression and characterization of the immunoreactivity of *Bruclla suis* 18 kDa cytoplasmic protein encoded by Brucella lumazine synthase gene".
4	Leena, G., Isloor, S., Rajeshwari Shome, Reddy, G.R., Rathnamma, D., Jayashankar, M.R. and Veeregowda, B.M., 2016. "Recombinant Brucella Lumazine Synthase (BLS) antigen based indirect ELISA for the serodiagnosis of Brucellosis in animals and humans".
5	Kavya, B.A., Veeregowda, B.M., Rajeswari Shome, Leena Gowda, Suresh, K.P. and Gajendragad, M.R., 2016. A pilot study on evaluation of lateral flow assay – A point of care diagnostic for Brucellosis. (Poster presentation).
6	Kamal Hasan, Rathnamma, D., Shrikrishna Isloor, Narayanaswamy, H.D., Mukartal, S.Y., Anuradha Menon, E. and Sarvesha, K., 2016. 'Isolation and Molecular characterization of Canine Parvovirus'.
7	Tajunnisa, M., Isloor, S., Nethravathi, B.T., Ramesh, P.T., Rathnamma, D., Sunilkumar, K., Santosh, A.K., Sujith, S., Nath, 2016. 'Ante-mortem vis-à-vis Post mortemlaboratory diagnosis of Rabies in animals- A case study'.
8	Santosh, A.K., Isloor, S., Sunilkumar, K.M., Rathnamma, D., Sharada, R., Yathiraj, S., Satyanarayana, M.L. and Balamurugan, V., 2016. Assessment of anti-rabies vaccinal antibodies in domestic dogs and cats from different states of India by RFFIT.
9	Leena, G., Rajeshwari Shome, Isloor, S., Nagalingam, M., Balamurugan, V., Reddy, G.R., Rathnamma, D., Jayashanka, M.R., Veeregowda, B.M. and Rahman, H., 2016. Cloning, expression and charcterisation of the immunoreactive *Brucella suis* 18 kDa cytoplasmic protein encoded by *Brucella* Lumazine Synthase gene. Brucellosis-2016 International Research Conference held during 17-19 Nov., 2016 at New Delhi organised by Dept. of Biotechnology, Govt of India and Indian Council of Agricultural Research, *Pp*:48.
10	Leena, G, Isloor, S., Rajeshwari Shome, Reddy, G.R., Rathnamma, D., Jayashankar M.R. and Veeregowda, B.M., 2016. Recombinant *Brucella* Lumazine Synthase (BLS) antigen-based indirect ELISA for the sero-diagnosis of brucellosis in animals and humans. Brucellosis-2016 International Research Conference held during 17-19 Nov., 2016 at New Delhi organised by Dept. of Biotechnology, Govt of India and Indian Council of Agricultural Research, *Pp*:52.
11	Jagadeesh, S. Sanganal, Lokesh, L.V., Shridhar, N.B., Shekar, Yogesh Gowda, S. and Ravikumar, C., 2016. Analytical Method Development for the Analysis of Organochlorine pesticides residues in milk using Gas Chromatography (ECD). 36th Annual Conference of Society of Toxicology, "International Conference on New Insights and Multidisciplinary approach in toxicological studies", Amity University, New Delhi, 03-05 August, 2016, *Pp*:12.

12	Lokesh, L.V., Jagadeesh, S. Sanganal, Shridhar, N.B., Yogesh Gowda, S., Prakash, N., Prashanthkumar Waghe, Narayanaswamy, H.D. and Girish Kumar, V., 2016. Multi-residue analysis of some organochlorine pesticides in commercial broiler meat marketed in Bengaluru city by Gas Chromatography-electron capture detector (GC- ECD). 36th Annual Conference of Society of Toxicology, "International Conference on New Insights and Multidisciplinary approach in toxicological studies", Amity University, New Delhi, 03-05 August, 2016, *Pp*:73.
13	Lokesh, L.V., Jagadeesh, S. Sanganal, Shridhar, N.B., Shekar, Yogesh Gowda, S., Prakash N., Prashanthkumar Waghe, Narayanaswamy, H.D. and Girish Kumar, V., 2016. Multi-residue analysis of some organochlorine pesticides in commercial chicken egg marketed in Shivamogga city by Gas Chromatography-electron capture detector (GC- ECD). 36th Annual Conference of Society of Toxicology, "International Conference on New Insights and Multidisciplinary approach in toxicological studies", Amity University, New Delhi, 03-05 August, 2016, *Pp*:74.
14	Lokesh, L.V., Jagadeesh, S. Sanganal, Shekar, Shridhar, N.B., Yogesh Gowda, S., Prakash, N., Prashanthkumar Waghe., H.D., Narayanaswamy and Girish Kumar, V., 2016. Occurrence of some organochlorine pesticides in broiler meat marketed in Shivamogga town by Gas Chromatography-electron capture detector (GC- ECD). 36th Annual Conference of Society of Toxicology, "International Conference on New Insights and Multidisciplinary approach in toxicological studies", Amity University, New Delhi, 03-05 August, 2016, *Pp*:75.
15	Ravikumar, C., Jagadeesh, S. Sanganal, Lokesh, L.V., Shridhar, N.B., Yogesh Gowda, S. and Purandar Kamble, 2016. Residual analysis of Levifloxacin in liver and kidney of dual purpose chicken. 36th Annual Conference of Society of Toxicology, "International Conference on New Insights and Multidisciplinary approach in toxicological studies", Amity University, New Delhi, 03-05 August, 2016, *Pp*:88.
16	Rudresh, G.N., Sudha, G., Sandeep, K.H., Mahendra, S., Vishwanath, S., Debajyothi Sarkar, Krishnaswamy, A., Ranganath, L. and Kshama, M.A., 2016. A study on laparoscopic artificial insemination using different sperm concentration in ewes. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies, 6-8 December, 2016, COVS, Sri Venkateshwara Veterinary University, Tirupati.
17	Prem Kumar, R., Honnapppa, T.G., Krishnaswamy, A., and Sudha, G., 2016. Studies on effect of season on seminal attributes in hallikar bulls. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
18	Chetan, D.H., Krishnaswamya, V.C., Murthy and Sudha, G., 2016. Heamotological, biochemical and uterine toxolymamometric studies in cases of dystocia due to uterine inertia in female dogs. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
19	Krishnaswamy, A., Murthy, V.C. and Sudha, G., 2016. Evaluation of estraol valerate at post cortal contraceptive drugs in female dogs Debajyothi sarkar. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.

20	Bibin Beccha, B., Sudha, G., Navya, M. and Chetana, D.H., 2016. Sub evaluation of placental sites its diagnosis and treatment in a Labrador bitch. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
21	Darshan, C.N, Megasherr, C.S., Malasri, G., Suchitra, B.R., Sudha, G., Narasimhamurthy, 2016. Dystocia due to hychocephalus associated with prognotherm and cleft palate in a jersey cross bred cow - A case report. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
22	Deeepthi, C.R., Megna, P., Bibin Becha, B. and Sudha, G., 2016. Bacterial prostalitis in a spitz- a case report. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
23	Megashree, C.S., Navya, M., Suchitra, B.R., Sudha, G. and Darshan, C.N., 2016. Inguinal hysterectomy with pyometra in a dashhound bitch. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
24	Deepti, C.R., Sudha, G., Murthy, V.C. and Krishnaswamy, A., 2016. Hypospadiatin in a tom cat- a case report. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
25	Hareesha, K.M., Darshan, C.N., Megasherr, C.S., Malasri, G., Sunitha Behera, Renukaradhya, Sudha, G. and Murthy, V.C., 2016.Uterine adeno carcinoma in a female german shephered dog. XXXII Annual Convention of Indian Society for Study of Animal Reproduction on Animal Fertility and Fecundity at Nossroads addressing the issues through conventional and advanced reproductive technologies 6-8 December, 2016. COVS, Sri Venkateshwara Veterinary University, Tirupati.
VETERINARY COLLEGE, BIDAR	
1	Prakashkumar Rathod and Mahesh Chander Yogesh Bangar, 2017. Clean Milk Production in Indian Dairying: Adoption Status and Application of Logit Model. International Conference of Asian Society of Agricultural Economists (ASAE), Faculty of Economics Kasetsart University, Thailand Development Research Institute and Agricultural Economics Association of Thailand at Emerald Hotel, Bangkok, Thailand. 11th -13th January, 2017, *Pp*:1662-1673.
2	Kiran, M., Jagannatha Rao, B., Vinayananada, C.O. and Naveena, B.M. 2016. Effect of cooking methods and biding materials on sensory quality of different emulsion based chicken products. Fourth International Conference on Agriculture, Animal Sciences, Aquaculture and Fisheries, International Centre for Research and Development. Colombo, Srilanka, 28-29 December, 2016, *Pp*:13.

VETERINARY COLLEGE, SHIVAMOGGA	
1	Ananda, K.J. and Placid, E.D'Souza, 2017. Filarid infection in domestic animals. XXVI NCVP and International Symposium organized by Department of Veterinary Parasitology, Veterinary College, Shivamogga held during 15 th-17th February, 2017. Text book-An update on diagnosis and control of parasitic diseases, *Pp*:125.
2	Ananda, K.J. and Placid, E.D'Souza, 2017. An update on immunological and molecular diagnosis of *Echinococcus granulosus* infection in dogs. XXVI NCVP and International Symposium organized by Department of Veterinary Parasitology, Veterinary College, Shivamogga held during 15th-17th February, 2017. Text book-An update on diagnosis and control of parasitic diseases, *Pp*:161.
3	Ananda, K.J. and Dhanalakshmi, H., 2017. Medicinal plants and their importance in the treatment of gastrointestinal parasites of domestic animals. XXVI NCVP and International Symposium organized by Department of Veterinary Parasitology, Veterinary College, Shivamogga held during 15th-17th February, 2017. Text book-An update on diagnosis and control of parasitic diseases, *Pp:*187.
4	Umashankar, B.C., Nagabhushan, V., Giridhar, K.S. and Madhusudan, H.S., 2016. Nutritional Evaluation of Arecanut sheath as alternate source of Roughage for Sheep. Animal Nutrition Association Conference, Tirupati.
5	Manju, G. U., Nagaraja, R., Sreesujatha, R., Giridhar, K.S., Ravindra, B.D. and Thirumalesh, T., 2016. Effect of supplementation of cellulolytic enzymes on the performance of growing mandya lambs fed with urea treated farm sugarcane bagasse. Animal Nutrition Association Conference, Tirupati.
6	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Participatory research on establishment of fodder nursery unit at Ragimasalawada village of Harapanahalli taluk, Davanagere District Abstract presented in the National Conference on "Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihoods and Resilience to Climate Change" on 22-24, April, 2017 (p. 142), at Sarvareddy Venkatareddy Foundation for Development (SVFD) and Participatory Rural Development Initiatives Society (PRDIS) in collaboration with Professor Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad.
7	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Participatory research on solving the problem of lower fat and SNF of milk in micro water shed ares of Harapanahalli taluk of Davanagere District. Abstract presented in the National Conference on "Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihoods and Resilience to Climate Change" on 22-24, April, 2017 (*Pp*:96), at Sarvareddy Venkatareddy Foundation for Development (SVFD) and Participatory Rural Development Initiatives Society (PRDIS) in collaboration with Professor Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad.
8	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Effect of forage crops integration of in coconut farm for improving productivity of dairy animals through farmer participatory approach in Gopalapura village of Davanagere District. Abstract presented in the National Conference on "Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihoods and Resilience to Climate Change" on 22-24, April, 2017 (*Pp*:118), at Sarvareddy Venkatareddy Foundation for Development (SVFD) and Participatory Rural Development Initiatives Society (PRDIS) in collaboration with Professor Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad.

9	Dhoolappa, M., *et al.,* Development of Bio-Insole as an Assistive device for the prevention and management of diabetic foot ulcer. International conference on Science and Technology: Future challenges and solutions (STFCS-2016)" organized by Indian JSPS Alumini Association (IJAA) at Manasagangotri University of Mysuru. 08.08.2016 to 09.08.2016, *Pp*:45.
10	Nagaraja, L., Ananda, K. J., and Patel Suresh Revanna, 2017. Epidemiological investigations on *Schistosoma nasale* in the Cattle and Buffaloes in Shivamogga district. Karnataka. XXVI National Congress of Veterinary Parasitology and Internaltional Symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:19.
11	Malatesh, D.S., Ananda, K.J., Patel Suresh Revanna and Nagaraja, L., 2017. Epidemiological studies on sarcoptic mange in dogs. XXVI National Congress of Veterinary Parasitology and Internaltional Symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:26.
12	Ananda, K. J., Malatesh, D.S., Vinay, S. and Vinuthan, M.K., 2017. Gastro-intestinal Parasitic Infection in Captive Wild Animals maintained at Tiger Lion Safari Unit, Shivamogga. XXVI National Congress of Veterinary Parasitology and Internaltional Symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:26.
13	Ananda, K.J., Pradeep, B.S., Rakesh, R.L., Naveen, M. and Malatesh, D.S., 2017. Prevalance of Myasis in Domestic and Pet Animals in and around Shivamogga, Karnataka. XXVI National Congress of Veterinary Parasitology and Internaltional Symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:72.
14	Manasa, R., Kottadamane, Pradeep, R.K., Ananda, K.J., Malatesh, D.S. and Satheesha, S.P., 2017. Babesiosis in cross bred Jersy cattle and its confirmatory diagnosis by polymerase chain reaction. XXVI National Congress of Veterinary Parasitology and Internaltional Symposiu m, 15-17 Feb., 2017, Shivamogga, *Pp*:112.
15	Nagaraja, L., Malatesh, D.S., Ananda, K.J., Patel Suresh Revanna and Harish Kumar, K.P., 2017. Diagnosis and Surgical Management of Non-cerebral coenurosis (*Taenia gaigeri*) in Local Bellary Breed of Sheep in Karnataka. XXVI National Congress of Veterinary Parasitology and Internaltional Symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:150.
16	Satheesha, S.P., Chandrashekar, G., Manasa, R., Kottadamane, Malatesh, D.S., Nagaraj, L. and Patel Suresh, R., 2017. Bovine Ascariasis in and around Shivamogga and its effective treatment. XXVI National congress of veterinary Parasitology and internaltional symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:153.
17	Ananda, K.J., Malatesh, D.S., Suresh Patel, R. and Nagaraja, L., 2017. *Babesia gibsoni* Infection in a Labrador Retriever dog and its Successful Management. XXVI National congress of veterinary Parasitology and internaltional symposium, 15-17 Feb., 2017, Shivamogga, *Pp*:154.
VETERINARY COLLEGE, HASSAN	
1	Santosh, A.K., Isloor, S., Sunilkumar, K.M., Rathnamma, D., Sharada, R., Yathiraj, S., Satyanarayan, M.L. and Balamurugan, V., 2016. Assessment of anti-rabies vaccinal antibodies in domestic dogs and cats from different states of India by RFFIT. VIROCON 2016, ICAR-IIHR, Bengaluru, Dec. 8-10, 2016, *Pp*:41.
2	Sharada, R., Isloor, S., Santosh, A.K., Rathnamma, D., Yathiraj, S. and Abdul Rahman, S., 2016. Advances in Diagnosis of Rabies – Our Initiatives. VIROCON 2016, ICAR-IIHR, Bengaluru, December 8-10, *Pp*:173.

3	Shivakumar, M.C., Suresh, B.N., Manjunatha, L., Chetan, K.P. and Sunil Kumar, M.A., 2016. Effect of dietary supplementation of Tinospora cordifolia herbal powder on growth performance of improved backyard birds. Proc. of Tropical Animal Science and Production Conference, Bangkok, 26-29 July, 2016, *Pp*:160(Vol-II).
4	Suresh, B.N., Shivakumar, M.C., Naik, N., Suma, N. and Manjunatha, L., 2016. Performance of layers fed diets supplemented with methionine producing probiotic microorganisms. Proc. of Tropical Animal Science and Production Conference, Bangkok, 26-29 July, 2016, *Pp*:229-232 Vol-I.
DAIRY SCIENCE COLLEGE, KALBURGI	
1	Devaraju, R. Kalla, Adarsh, M. and Praveen, A.R., 2017. The IRES 63rd International Conference, Bangkok, Thailand, March 5-6, 2017, *Pp*:20-24.
INSTITUTE OF ANIMAL HEALTH AND VETERIANRY BIOLOGICALS, BENGALURU	
1	Sobha Rani, M., Venkatesha, M.D., Byregowda, S.M. and Sumathi, B.R., 2016. Estimation of antibody titre against rabies virus in vaccinated animals by Indirect ELISA in Virocon-2016. International Conference on "Global Perspectives in viral disease Management" on 7-10 December, 2016 in IIHR, Bengaluru.

ii) National Publications

a) Publications in Journals

#	*Year/ Authors / Title of Paper / Journal*
	VETERINARY COLLEGE, BENGALURU
1	Naik, M.C., Krishnamoorthy, U., Nagaraja, R. and Yathiraj, S., 2016. Lactation pattern in mandya ewes and its influence on body weight gain in pre-weaning lambs. *Indian Journal of Small Ruminants*, 22(1):22-27.
2	Naveen Kumar, S., Jayashankar, M.R., Chandrashekhar, M., Vageesh Pandith, Nagaraja, R. and Manju, G.U., 2016. Association of genetic polymorphisms of Calpain and Calpastatin genes with growth traits in Bandur Sheep. *Indian Journal of Animal Sciences,* 86(8):907-912.
3	Temjennungsang, Sonal Thakur, Prabhu, T.M., Reddy, B.S.V., Gloridoss, R.G. and Suresh, B.N., 2016. Performance of goat kids fed detoxified honge (*Pongamia glabra vent*) seed meal based concentrate mixtures. *Animal Nutrition and Feed Technology*, 16:97-106.
4	Basavanta Kumar, C., Reddy, B.S.V., Gloridoss, R.G., Prabhu, T.M., Wodeyar, D.S. and Suresh, B.N., 2016. Efficacy of biotechnologically derived product in counteracting ill effects of Aflatoxins in broiler chicken. *Indian Journal of Animal Research*, 50(1):75.
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60	Yashoda Rathod, Sandeep, H., Ajay, S., Vivek, R., Kasaralikar and Patil, N.A., 2017. Prevalence of gastrointestinal parasites in goats: A 2 year review, 35th Annual ISVM Conference, Tirunelveli, 22nd to 24th Feb., 2017.
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78	Bhoyar, R., Vakare, S.M. and Harish Kulkarni, 2016. A study on prevalence of gastrointestinal helminthes of dogs in and around Bidar, 12th Kannada Science Congress, KVAFSU, Bidar, 15th to 17th Sept., 2016.
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83	Kiran, M., Srikanth Rapole, Venkatesh, Praveen Kumar, Y., Kulkarni, V.V., Naveena , B.M., 2016. Comparative proteomics of electrically stunned versus non-stunned sheep meat (*Ovis aries*) by differential gel electrophoresis and MALDI-TOF/TOF mass spectrometry analysis. 7th conference of Indian Meat Science Association. IMSACON 2017, Ludhiana, organized by GADVASU, IMSA during 10th to 12th November, 2016.
84	Jagannatha Rao, B. and Kiran, M., 2017. Significance of Desi cow's A2 milk on human health. Go Samsat-2017, organized by Sri Ramachandrapura Matha during 28th to 29th January, 2017, Pp-85-91.
85	Ravindra, B.D., Tyagi, A.K., Kathirvelan, C., Ira, C. and Manju, G.U., 2016. Isolation and Molecular Characterization of Butyrivibrio fibrisolvense from Rumen of Murrah Buffalo which Isomerise LA to CLA with High Potential. Proceedings of X Biennial Animal Nutrition Association Conference. National conference on Newer perspectives in Animal Nutrition Research for Augmenting Animal productivity, organized by Animal Nutrition Association, ICAR, SVVU, Tirupati during 9th to 11th November, 2016.

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87	Roopa, K., Thirumalesh, T., Ramachandra, B. Vijayakumar, M. Siddalingswamy, H. and Naveenkumar, G.S., 2016. Effect of Polyherbal Additives on Haematological and Biochemical parameters in Yorkshire Male Pigs. Proceedings of X Biennial Animal Nutrition Association Conference. National conference on Newer perspectives in Animal Nutrition Research for Augmenting Animal productivity, organized by Animal Nutrition Association, ICAR, SVVU, Tirupati during 9th to 11th November, 2016.
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95	Hussain, M.S., Appannavar, M.M, Yathish, H.M., Asharani, A.D., Suranagi, M.D. and Biradar, U.S., 2017. Relative Assessment of Morphometric traits of Yalaga with Kenguri and Bannur Sheep breeds. National Symposium on "Biodynamic Animal Farming for the Management of Livestock Diversity under Changing Global Scenario" held during February 8th-10th, 2017 at College of Veterinary and Animal Sciences, KVASU, Mannuthy, Thrissur, Kerala, India.
96	Hussain, M.S., Appannavar, M.M., Yathish, H.M., Asharani, A.D., Suranagi, M.D. and Biradar, U.S, 2017. Comparative Evaluation of Carcass Traits in Yalaga, Kenguri and Bannur Sheep Breeds. National Symposium on "Biodynamic Animal Farming for the Management of Livestock Diversity under Changing Global Scenario" held during February 8th-10th, 2017 at College of Veterinary and Animal Sciences, KVASU, Mannuthy, Thrissur, Kerala, India.
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103	Swati Agrawal, Subodh Kumar, Rajni Chaudhary, Yathish, H.M., Nihar, R. Sahoo and Anuj Chauhan, 2017. Determination of Allelic Variants in Exon 4 of FCGRT Genein Murrah Buffaloes and Their Association with Colostral IgG Concentration. National Symposium on "Biodynamic Animal Farming for the Management of Livestock Diversity under Changing Global Scenario" held during February 8th-10th, 2017 at College of Veterinary and Animal Sciences, KVASU, Mannuthy, Thrissur, Kerala, India.
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VETERINARY COLLEGE, SHIVAMOGGA	
1	Karadi Manjula, Supriya, K., Shahshidhara Soppimata, N.K., Tarini, Ananda, K.J. and Nagappa Karabasanavar, 2017. Demonstration of eggs of *Capillaria* species in the common silver-Biddy Fish (*Gerres Oyena*, Forsskal, 1775). XXVI National Congress of Veterinary Parasitology and National Symposium on 'Current concepts in diagnosis and control of parasitic diseases to combat climate change'. 15th-17th Feb., 2017, Shivamogga, Karnataka, P 166.
2	Nagappa Karabasanavar, Tarini, N.K., Aruna Poojary, Malatesh, D.S., Satheesha, S.B., Chandrashekar, G., Manasa, Kavitha Rani, B. and Madhavaprasad, C.B., 2016. Isolation of *Stephanoascus ciferrii* from a domestic cat. XIV Annual Conference of Indian Association of Veterinary Public Health Specialists and national Symposium on 'Innovative approaches to promote food safety and reduce the risk of zoonotic diseases in context of climate change, 21st-22nd, Nov., 2016, Udaipur, *Pp* 219-220.
3	Nagappa Karabasanavar, Prashanth, S. Bagalkote, Harisha, M., Santosh, A., Sajjan, Madhavaprasad, C.B. and Veeranna, K.C., 2016. A study on occupational health risk among veterinarian. XIV Annual Conference of Indian Association of Veterinary Public Health Specialists and national Symposium on 'Innovative approaches to promote food safety and reduce the risk of zoonotic diseases in context of climate change, 21st-22nd, Nov., 2016, Udaipur.
4	Nagappa Karabasanavar, Shashidhara Soppimata, Tarini, N.K., Madhavaprasad, C.B., UmakantBorde, Vinod Supam, Zende, R.J. and Paturkar, A.M., 2016. Evaluation of commercial chlorine preparations for residual chlorine in water. XIV Annual Conference of Indian Association of Veterinary Public Health Specialists and national Symposium on

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5	Sajjan, S.A., Madhavaprasad, C.B., Prashant, S. Bagalkote and Nagappa Karabasanavar, 2016. Survey on biomedical waste management at veterinary institutions in different institutes of Karnataka. XIV Annual Conference of Indian Association of Veterinary Public Health Specialists and national Symposium on 'Innovative approaches to promote food safety and reduce the risk of zoonotic diseases in context of climate change, 21st-22nd, Nov., 2016, Udaipur. P 156.
6	Nagappa Karabasanavar, Yogisharadhya Revanaiah, Kotresh, A.M., Rajashekara, D.B., Shilpa, A.G., Tarini, N.K., Anantha Krishna, L.R., Manjunatha, S.S., Sundareshan, S., Veeranna, K.C. and Prasad, R.V., 2016. An outbreak of contagious ecthyma (orf) in Tellicherry goats (*Capra hircus*). World Veterinary Day – Salihotra Jayanti and National Symposium on One Health initiative to foster intersectoral collaboration for human and animal health. April 26th-28th, 2016, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, *Pp* 224-225.
7	Kavitha Rani B., 2016. "Parasitic conditions in Wild animals." Technical compendium of the XX National Training Programme organized by Centre of Advanced Faculty Training in Veterinary Parasitology, KVAFSU, Veterinary College, Ben galuru on November 7th-27th, 2016, *Pp* 158-162.
8	Kavitha Rani B., 2016. "Histopathological Methods for diagnosis of parasitic diseases." Technical compendium of the XX National Training Programme organized by Centre of Advanced Faculty Training in Veterinary Parasitology, KVAFSU, Veterinary College, Bengaluru on November 7th-27th, 2016, *Pp* 158-162.
9	Kavitha Rani, B., Vinay, S. and Jayaramu, G.M., 2016. "Haemorrhagic syndrome in a captive raptor bird – the Pearl Kite". South Zonal Conference of the IAVP and National Seminar on "Advances in Diagnosis of Emerging and Re-emerging diseases of Avian species", 15th-16th July, 2016 held at Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh, P 117.
10	Kavitha Rani B., Vinay, S., Anjan Kumar, K.R. and Jayaramu, G.M., 2016. "An outbreak of enteric infection in captive silver pheasants". South Zonal Conference of the IAVP and National Seminar on "Advances in Diagnosis of Emerging and Re-emerging diseases of Avian species", 15th-16th July, 2016 held at Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh, P 118.
11	Kavitha Rani, B., Manjunatha, S.S., Vinay, S., Ananda, K.J., Dhanlakshmi, S. and Jayaramu, G.M., 2016. "Pathology of Ophidascariasis in an Indian Rock Python". Veterinary Pathology Congress and XXXIII Annual Conference of Indian Association of Veterinary Pathologists, VII Annual meeting of ICVP and National Symposium on "Innovative approaches for diagnosis and control of emerging and re-emerging diseases of livestock, poultry and fish". November 9th-11th, 2016, College of Veterinary Science and Animal Husbandry, Chattisgarh Kamdhenu Vishwavidyalaya, Anjora, Durg, Chattisgarh, India, P 183.
12	Manjunatha, S.S., Kavitha Rani, B., Sundaresan, S., Baddi, S.Y., Anjan Kumar, K.R. and Satyanarayana, M.L., 2016. "A post mortem investigation of death in Sambar deer". Veterinary Pathology Congress and XXXIII Annual Conference of Indian Association of Veterinary Pathologists, VII Annual meeting of ICVP and National Symposium on "Innovative approaches for diagnosis and control of emerging and re-emerging diseases of livestock, poultry and fish". November 9th-11th, 2016, College of Veterinary Science and

	Animal Husbandry, Chattisgarh Kamdhenu Vishwavidyalaya, Anjora, Durg, Chattisgarh, India, P 185.
13	Nagappa Karabasanavar, Tarini, N.K., Aruna Poojary, Malatesh, D.S., Satheesha, S.B., Chandrashekar, G., Manasa, Kavitha Rani, B. and Madhavaprasad, C.B., 2016. "Isolation of *Stephanoascus ciferrii* from a domestic cat". XIV Annual Conference and National Symposium on "Innovative Approaches to promote food safety and reduce the risk of zoonotic diseases in context of climate changes". 21st-22nd November, 2016 at Udaipur, Rajasthan, P 219.
14	Kavitha Rani, B., Vinay, S., Dhanlakshmi, S. and Shivashankar, 2017. "Gunshot induced compound fracture injuries in a Peacock". National Congress on Wildlife Health, Indian Veterinary Research Institute, Izatnagar, UP, India.
15	Kavitha Rani, B., Vinay, S., Ananda, K.J. and Shivashankar, 2017. "Catarrhal Enteritis and Enteric Hyperplasia due to Cestodiasis in an Indian Leopard". National Congress on Wildlife Health, Indian Veterinary Research Institute, Izatnagar, UP, India.
16	Naveen, M., Dhanalakshmi, S. and Kavitha Rani, B., 2017. "Surgical management of tumours in cattle: Report of 5 cases". National Conference on "Trends in cancer research under one health concept" from 4th to 6th Feb, 2017 organized by Dept. of Veterinary Surgery and Radiology, College of Veterinary Science, Tirupati, AP.
17	Dhanalakshmi, S., Naveen, M. and Kavitha Rani, B., 2017. "Surgical management of tumours in dogs: Report of 5 cases". National Conference on "Trends in cancer research under one health concept" from 4th to 6th Feb, 2017 organized by Dept. of Veterinary Surgery and Radiology, College of Veterinary Science, Tirupati, AP.
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19	Naveen, M., Ravi Raidurg, Dhanalakshmi, S. and Santosh, K.M., 2016. Treatment of fractures in calves. 12th Kannada Science Congress, 15th-17th Sep., 2016, KVAFSU, Bidar.
20	Ravi Raidurg, Dhana Lakshmi, N., Vasanth, M.S., Srilatha, C.H. and Raju, N.K.B., 2016. "Management of long bone diaphyseal fractures with Minimally invasive plate osteosynthesis technique using locking compression plates in twenty four dogs". Paper presented at 40th ISVS Conference at Madras Veterinary College, Chennai, TANUVAS, Tamil Nadu, India, 2nd-4th Dec., 2016.
21	Ravi Raidurg, Dhana Lakshmi, N., Vasanth, M.S., Srilatha, C.H. and Raju, N.K.B., 2016. "Ultrasonographic findings of fracture healing following repair of long bone fractures by Minimally invasive plate osteosynthesis (MIPO) and Open reduction and internal fixation (ORIF) in twenty four dogs". Paper presented at 40th ISVS Conference at Madras Veterinary College, Chennai, TANUVAS, Tamil Nadu and, 2nd-4th Dec., 2016.
22	Shahid Hussain Dar, Pushkin Raj, H., Md. Shafiuzama, Neelima Dasari Prabha, Ravi Sunder George and Ravi Raidurg, 2016. "Successful corrective osteotomy and rehabilitation of angular deformity in two dogs". Paper presented at 40th ISVS Conference at Madras Veterinary College, Chennai, TANUVAS, Tamil Nadu and, 2nd-4th Dec., 2016.
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48	Manjunath, K.P., Girish, B.C., Shilpa, V.T., Shivakumar. M.C. and Suma, N., 2016. An outbreak of caecal coccidiosis in five year week old broilers. In Proc III AAHP convention and national symposium on Poultry health and welfare riding the wave to the future. 20th-21st Oct., 2016, Goa, P 60.
49	Manjunath, S.P., Dhanalakshmi, H. and Veena, M., 2016. Disease pattern of haemoprotozoan diseases in Hassan district of Karnataka. XXVI National Congress of Veterinary Parasitology and International Symposium on "Current concepts in Diagnosis and Control of Parasitic Diseases to combat climate change.
50	Manjunatha, K.P., Girish, B.C. and Shilpa, V.T., 2016. Traumatic injury from barbed wire leading to death of a deer. 12th Kannada Science Congress held during 15-17th September, 2016 at KVAFSU, Bidar, P 102.
51	Manjunatha, K.P., Girish, B.C., Manjunatha, D.R., Basavaraj, B., Shilpa, V.T. and Roopa Devi, Y.S., 2017. Liposarcoma in a dog. National conference on "Trends in cancer research under one health concept. 4th-6th February, 2017. Organized by Department of Veterinary Surgery, College of Veterinary Science, Tirupati, VOS-38.
52	Manjunatha, K.P., Girish, B.C., Shilpa, V.T., Roopa Devi, Y.S. and Manjunatha, D.R., 2016. Death of leopard due to chronic traumatic injury. XXXIII Annual conference of IAVP, VII Annual meeting of Indian College of Veterinary Pathologists. National Symposium on "Innovative approaches for diagnosis and control of emerging and re-emerging disease of livestock, poultry and fish. Department of Veterinary Pathology, CVSC and AH, Chattisgarh Kamadhenu Vishwavidyalaya, Anjora, Durg. 9th-11th November, 2016, P 134.
53	Manjunatha, K.P., Girish, B.C., Shilpa, V.T., Roopa Devi, Y.S. and Manjunatha, D.R., 2016. Diaphragmatic hernia in a pregnant animal. XXXIII Annual conference of IAVP, VII Annual meeting of Indian College of Veterinary Pathologists. National Symposium on "Innovative approaches for diagnosis and control of emerging and re-emerging disease of livestock, poultry and fish. Department of Veterinary Pathology, CVSC and AH, Chattisgarh Kamadhenu Vishwavidyalaya, Anjora, Durg. 9th-11th November, 2016, P 182.

54	Manjunatha, K.P., Girish, B.C., Shilpa, V.T., Roopa Devi, Y.S. and Chandrashekar, K.M. , 2016. Staphylococcus infection in rabbits. XXXIII Annual conference of IAVP, VII Annual meeting of Indian College of Veterinary Pathologists. National Symposium on "Innovative approaches for diagnosis and control of emerging and re-emerging disease of livestock, poultry and fish. Department of Veterinary Pathology, CVSC and AH, Chattisgarh Kamadhenu Vishwavidyalaya, Anjora, Durg. 9th-11th November, 2016, P 208.
55	Manjunatha, K.P., Girish, B.C., Shilpa, V.T., Shivakumar, M.C. and Suma, N., 2016. An outbreak of caecal coccidiosis in five week old broilers. III AAHP convention and National symposium on poultry health and welfare riding the wave to the future. 20th-21st October, 2016, Goa, P 60.
56	Manjunatha, K.P., Shilpa, V.T., Girish, B.C. and Rashmi, L., 2016. Outbreak of Salmonellosis in desi birds. III AAHP convention and National Symposium on Poultry health and welfare riding the wave to the future. 20th-21st October, 2016, Goa, P 54.
57	Manjunatha, L., Balaraju. B.L. and Doddamani, S., 2017. Socio-economic profile and effect of training on knowledge level of sheep rearing farmers in Hassan district of Karnataka. National Seminar on 'Improvement of small ruminant production system for livelihood security, ISSGPU-2017, Avikanagar, 9th-10th March, 2017, SS6-25. P 263.
58	Nagaraju, N., Srinivasamurthy, K.M., Suresh, L., Balappanavar, B.R. and Vasanth, M.S., 2016. Surgical management of oral tumor in a non-descript dog-A case report. 40th Annual congress of Indian Society for Veterinary Surgery and National symposium, Madras Veterinary college, Tamil Nadu. 2nd-4th December, 2016. Madras Veterinary College, Tamil Nadu, 2nd-4th December, 2016, SAS 40, P 185.
59	Nagaraju, N., Suresh, L., Balappanavar, B.R., Manjunath, D.R. and Vasanth, M.S., 2016. Surgical management of closed pyometra in Great Dane bitch- A case report. 40th Annual congress of Indian Society for Veterinary Surgery and National symposium, Madras Veterinary College, Tamil Nadu, 2nd-4th December, 2016, SAS 41, *Pp* 185-186.
60	Nithya Priyadarshini, M., Kavitha, K., Veena, M., Dhanalakshmi, H., Awathanarayanappa, V. and Manjunath, D.R., 2016. A rare case of Dirofilaria repens infection in dogs. 8th clinical case conference on farm and companion animal practice for veterinary students, organized by TANUVAS, Tamilnadu, 12th-13th August, 2016, P 18, Abstract No. 27.
61	Puttalakshmamma, G.C., Aswini, M.S., Dhanalakshmi, H. and Veena, M., 2016. The fleas of medical and veterinary importance. 3rd National Meet on Entomologists. 7th-8th October, 2016.
62	Ravikumar, C., Santhosh, C.R. and Pavankumar, K.N., 2017. Animal models used in biomedical research workshop on "Welfare, ethics and experimentation on laboratory animals". *Pp* 27-32.
63	Ravikumar, C., Santhosh, C.R. and Pavankumar, K.N., 2017. Beagle dogs used as experimental animals in biomedical research. Workshop on "Welfare, ethics and experimentation on laboratory animals". *Pp* 51-53.
64	Roopa Devi, Y.S., Girish, B.C., Manjunatha, D.R., Shilpa, V.T. and Manjunatha, K.P. , 2017. Pleomorphic osteosarcoma in a dog. National conference on "Trends in cancer research under one health concept. 4th-6th February, 2017, Department of Veterinary Surgery, College of Veterinary Science, Tirupathi, VOS-39.
65	Sahadev, A., Krishnaswamy, A., Sudha, G. and Sunita Behera, 2016. Diagnosis of postpartum subclinical endometritis in crossbred dairy cows in XXXII Annual Convention of ISSAR on " Animal fertility and fecundity at crossroads; Addressing the issues through conventional and advance reproductive Technologies held at Sri Venkateshwara Veterinary

	University, Tirupati, 6th-8th December, 2016, P 41.
66	Sahadev, A., Krishnaswamy, A., Sunita Behera and Sharada, R., 2016. Common Aerobic Pathogens In Postpartum Subclinical Endometritic Crossbred Dairy Cows in XXXII Annual Convention of ISSAR on "Animal fertility and fecundity at crossroads; Addressing the issues through conventional and advance reproductive Technologies" held at Sri Venkateshwara Veterinary University, Tirupati , 6th-8th December, 2016, P 55.
67	Santhosh, C.R., Ravikumar, C. and Pavankumar, K.N., 2017. The Use of Animals for Research in the Pharmaceutical Industry, Workshop on "Welfare, Ethics and Experimentation on Laboratory Animals". *Pp* 43-44.
68	Santosh, A.K., Deepak, K., Isloor, S., Nandhini, R., Sharada, R., Balamurugan, V., Rathnamma, D., Yathiraj, S., Satyanarayana, M.L. and Nagendra, R.H., 2016. Cloning of Rabies virus glycoprotein in baculovirus expression system. 18th National Conference APRICON 2016, Convention Centre, NIMHANS, Bengaluru, July 9th-10th, 2016, P 33.
69	Sharada, R., Isloor, S., Veeresh, B.H., Balamurugan, V., Suryanarayana, V.V.S., Rathnamma, D., Manisha, R. and Satyanarayana, M.L., 2016. Development of recombinant rabies virus glycoprotein based ELISA for sero-monitoring of vaccinal antibodies in dogs. 18th National Conference APRICON 2016, Convention Centre, NIMHANS, Bengaluru, July 9th-10th, 2016, P 9.
70	Shilpa, V.T., Girish, B.C., Manjunatha, D.R., Manjunatha, K.P., Roopa Devi, Y.S. and Srinivasmurthy, K.M., 2017. Chondrosarcoma in nasal cavity of a dog. National conference on "Trends in cancer research under one health concept. 4th-6th February, 2017, Department of Veterinary Surgery, College of Veterinary Science, Tirupathi , P 41.
71	Shilpa, V.T., Girish, B.C. and Manjunatha, K.P., 2016. Ruminal impaction in a stray cow. 12th Kannada Science Congress, KVAFSU, Bidar, 15th-17th September, 2016, *Pp* 104-105.
72	Shilpa, V.T., Girish, B.C., Manjunatha, D.R., Balappanavar, B.R., Manjunatha, K.P. and Roopa Devi, Y.S., 2017. Malignant melnoma in a dog. National conference on Trends in cancer research under one health concept. 4th-6th February, 2017, Department of Veterinary Surgery, College of Veterinary Science, Tirupati, VOS-40.
73	Shilpa, V.T., Girish, B.C., Manjunatha, K.P. and Rashmi, L., 2016. A report on mycotic abortion in a bitch12th Kannada Science Congress, KVAFSU, Bidar, 15th-17th September, 2016, P 99.
74	Shilpa, V.T., Girish, B.C., Manjunatha, K.P. and Suma, N., 2016. Early chick mortality in country birds. South Zonal conference 2016 IAVP and National Seminar on "Advances in diagnosis of emerging and reemerging disease of avian species. Organized by Department of Veterinary Pathology, College of Veterinary Science, Sri Venkateshwara Veterinary University, Tirupati, Chittor district during 15th-16th July, 2016, P 102.
75	Shilpa, V.T., Girish, B.C., Manjunatha, K.P., Rashmi, L. and Suma, N., 2016. Cutaneous pox in country birds with nephrosis. III AAHP convention and National Symposium on Poultry health and welfare riding the wave to the future. 20th-21st October, 2016, Goa, P 60.
76	Shilpa, V.T., Girish, B.C., Manjunath, K.P., Shivakumar, M.C. and Suma, N., 2016. Chronic respiratory disease precipitated by heat stress in broilers. In Proc III AAHP convention and national symposium on Poultry health and welfare riding the wave to the future. 20th-21st October, 2016, Goa, P 61.
77	Shivakumar, M.C., Murthy, H.N.N., Swamy, H.V.L.N. and Suresh, B.N., 2016. Influence of feeding yeast derived proteins on intestinal morphology and micro-flora in broiler chickens. In 8Proc III AAHP convention and national symposium on Poultry health and welfare riding the wave to the future. 20th-21st October, 2016, Goa, P 85.

78	Shivakumar, V., Anil Kumar, M.C., Manjunatha, D.R., Narayana Bhat, M. and Akshatha, G.M., 2016. 35th Annual Convention of ISVM and National Symposium. Veterinary College, Thirunelveli, Tamilnadu. 22nd to 24th February, 2016, P 326.
79	Shivakumar, V., Anil Kumar, M.C., Manjunatha, D.R., Narayana Bhat, M. and Akshatha, G.M., 2017. 35th Annual Convention of ISVM and National Symposium. Veterinary College, Thirunelveli, Tamilnadu. 22nd to 24th February, 2017, P 326.
80	Shruthi, R., Thimmareddy, P.M., Mamatha, G.S., Chandra Naik, B.M. and Puttalakshmamma, G.C., 2017. Prevalence of Theileria species in Sheep and Goats from Karnataka, India. XXVI National Congress of Veterinary Parasitology and International Symposium on "Current concepts in Diagnosis and Control of Parasitic Diseases to combat climate change". P 17.
81	Shruthi, R., Thimmareddy, P.M., Mamatha, G.S., Chandra Naik, B.M. and Puttalakshmamma, G.C., 2017. Prevalence of ticks in Theileria infected sheep and goats in Karnataka, India. XXVI National Congress of Veterinary Parasitology and International Symposium on "Current Concepts in Diagnosis and Control of Parasitic Diseases to combat climate change". P 67.
82	Suma, N., Suresh, B.N., Anitha, K.C., Shilpa, V.T. and Girish, B.C., 2016. Karnataka under drought!!!: Novel feeds for our livestock. State Level Technical Symposium of Karnataka Veterinary Association. 22nd May, 2016, Bengaluru.
83	Suresh, B.N., Shivakumar, M.C. and Manjunatha, L., 2016. Maize cob and husk based total mixed ration for dairy animals. State Level Technical Symposium of Karnataka Veterinary Association. 22nd May, 2016, Bengaluru.
84	Suresh, B.N., Basavantha Kumar, C. and Chethan, K.P. 2016. Preparation of calf starter feeds using locally available ingredients. State level Technical Symposium of Karnataka Veterinary Association. 22nd May, 2016, Bengaluru.
85	Suresh, B.N., Basavantha Kumar, C. and Chethan, K.P., 2016. Preparation of calf starter Feeds using locally available ingredients, In state level technical meet conducted by state veterinary association held at Bengaluru, 22nd-23rd May, 2016, P 15.
86	Suresh, B.N., Madhusudan, H.S. and Suma, N., 2016. Nutritional manipulations to combat milk fever. State level Technical Symposium of Karnataka Veterinary Association. 22nd May, 2016, Bengaluru.
87	Suresh, B.N., Madhusudan, H.S., Chethan, K.P. and Manjunatha, L., 2016. Strategies to prevent low fat and low SNF in dairy cow. State level Technical Symposium of Karnataka Veterinary Association. 22nd May, 2016, Bengaluru.
88	Suresh, B.N., Madhusudhan, H.S., Chethan, K.P. and Manjunatha, L., 2016. Strategies to prevent Low fat and Low SNF in Dairy cow, In State level Technical meet conducted by State veterinary association held at Bengaluru, 22nd-23rd May, 2016, P 15.
89	Suresh, B.N., Suma, N. and Madhusudan, H.S., 2016. Dietary modifications to overcome SARA. In State level Technical meet conducted by State veterinary association held at Bengaluru, 22nd-23rd May, 2016.
90	Suresh, B.N., Suma, N. and Madhusudan, H.S., 2016. Nutritional interventions to reduce ketosis in dairy cattle. State Level Technical Symposium of Karnataka Veterinary Association. 22nd May, 2016, Bengaluru.
91	Suresh, L., Vasanth, M.S., Balappanavar, B.R., Manjunath, D.R. and Nagaraju, N., 2016. C-ARM Guided Diagnosis and Surgical Management of Tibiotarsal Fracture Using A Specially Designed IMP in a pigeon. A case report. 40th Annual congress of Indian Society for Veterinary Surgery and National symposium on biomaterials and stem cells for tissue

	repair and regeneration in veterinary surgery. Madras Veterinary College, Tamil Nadu. 2nd-4th December, 2016, AVS 4, P 41.
92	Suresh, L., 2016. Successful surgical management of congenital atresia ani associated with recto-vaginal fistula. 40th Annual congress of Indian Society for Veterinary Surgery and National symposium on biomaterials and stem cells for tissue repair and regeneration in veterinary surgery. Madras Veterinary College, Tamil Nadu. 2nd-4th December, 2016. RUS 62, P 148.
93	Veena, M., Dhanalakshmi, H., Kavitha, K., Placid, E. D'Souza and Puttalakshmamma, G.C., 2017. Speciation of Demodex mites in dogs using Morphometry and Micrometry. XXVI National Congress of Veterinary Parasitology and International Symposium on "Current concepts in Diagnosis and Control of Parasitic Diseases to combat climate change". P 110.
94	Yadav, J., Tripathi, H., Balaraju, B.L. and Yadav, R., 2016. Constraints perceived by SDAH personnel in delivering livestock extension service to women livestock farmers. Indian Society of Extension Education, National Seminar on Information and Communication Management concerning climate smart agriculture for sustainable development and poverty alleviation, R.V.S.K.V.V. Gwalior, 28 th-30th November, 2016, P 168.
DAIRY SCIENCE COLLEGE, BENGALURU	
1	Amarnath, G., Poojitha, Niranjan, Vijay, P., Jadhav and Jayashri, P. Hiremath, 2017. Optimization of probiotic *dahi* prepared using blends of cow milk and safflower (*Carthamus tinctorius*) milk in 45th Indian Dairy Industry conference and IIDE-2017. 16th-18th February, 2017, Mumbai, P 93.
2	Amaranth, Kulkarni and Jayashri, P. Hiremath, 2017 Oats fiber enriched *dahi*- an effort to alleviate micronutrient malnutrition in National Conference on Malnutrition CSIR-CFTRI, 3rd-4th March, 2017, Mysuru, P 27.
3	Poojitha, G. and Jayashri, P. Hiremath, 2017. Enhancement of nutritional quality of paneer using safflower (*Carhamus tinctorius*) milk – Cow milk blends in National Conference on Malnutrition CSIR-CFTRI, 3rd-4th March, 2017, Mysuru, Pp27.
INSTITUTE OF ANIMAL HEALTH AND VETERIANRY BIOLOGICALS, BENGALURU	
1	Sripad, K., Venktesh., M.D., Manjunath, M.T. and Umesh, 2017. Scenario of Economically Important Livestock Disease in Karnataka. KVA, State level Technical Symposium on "Innovative Strategies for Quality Livestock Production in Augmenting Rural Economy" held at Bengaluru during 22nd-23rd May, 2017.
2	Sripad, K., Venktesh., M.D., Manjunath, M.T. and Umesh, 2017. Strategies for prevention and control of diseases in animals in Karnataka. KVA, State level Technical Symposium on "Innovative Strategies for Quality Livestock Production in Augmenting Rural Economy" held at Bengaluru during 22nd-23rd May, 2017.
3	Ganesh Hedge, Sripad, K. and Giridhar, P., 2017. Use of laboratory in veterinary medicine. KVA, State level Technical Symposium on "Innovative Strategies for Quality Livestock Production in Augmenting Rural Economy" held at Bengaluru during 22nd-23rd May, 2017.
4	Manjuath, L. and Ganesh Hedge, 2017. Publicity of veterinary literature by Council of Kannada Veterinary Literature. KVA, State level Technical Symposium on "Innovative Strategies for Quality Livestock Production in Augmenting Rural Economy" held at Bengaluru during 22nd-23rd May, 2017.

5	Ganesh Hedge and Thimappa, J.R., 2017. Veterinary Literature Icon James Heriot. KVA, State level Technical Symposium on "Innovative Strategies for Quality Livestock Production in Augmenting Rural Economy" held at Bengaluru during 22nd-23rd May, 2017.
6	Gomes, A.R., Byregowda, S.M., Sobharani, M., Hegde, R., Marali, R., Saritha, N.S., Kumar, M.M. and Renukaprasad, C., 2016. Control of PPR in Karnataka – A success story. State level Technical symposium on Innovative strategies for quality livestock production in augmenting rural economy held at Bengaluru during 22nd-23rd May, 2017.
7	Sumathi, B.R., Ramachandrayya, M. and Harini, H., 2016. Therapeutic management of Acute mastitis in Goats – A Case Report. State level Technical Symposium on Innovative strategies for quality livestock production in augmenting rural economy held at Bengaluru during 22nd-23rd May, 2017.
8	Sumathi, B.R., Ramachandrayya, M. and Harini, H., 2016. Therapeutic management of Sarcoptic Mange in Goats – A Case Report. State level Technical Symposium on Innovative strategies for quality livestock production in augmenting rural economy held at Bengaluru during 22nd-23rd May, 2017.
9	Sumathi, B.R., Ramachandrayya, M. and Harini, H., 2016. Acute Mastitis in Goats and its Therapeutic Management – A Case Report. State level Technical Symposium on Innovative strategies for quality livestock production in augmenting rural economy held at Bengaluru during 22nd-23rd May, 2017.
10	Veena, M.P., Maheswarappa, Gowakkal, Sumathi, B.R. and Girish Kumar, V., 2016. Relation of Milk Parameters with Postpartum Reproductive Effeciency In Cattle. State level Technical Symposium on Innovative strategies for quality livestock production in augmenting rural economy held at Bengaluru during 22nd-23rd May, 2017.
11	Veena, M.P., Maheswarappa, Gowakkal, Sumathi, B.R. and Girish Kumar, V., 2016. Relation of Milk Parameters with Postpartum Reproductive Effeciency In Cattle. State level Technical Symposium on Innovative strategies for quality livestock production in augmenting rural economy held at Bengaluru during 22nd-23rd May, 2017.
INSTITUTE Of WILDLIFE VETERINARY RESEARCH, KODAGU	
1	Ganesh Udupa, K. and Prashanth, N.T., 2017. Prevalence of Gastro-intestinal parasitic infections in Indian wild boars (*Sus scrofa*) in the campus of Institute of Wildlife Veterinary Research, Doddaluvara, Kodagu District of Karnataka State. Compendium of national Congress on Wildlife Health. National Congress on Wildlife Health-2016 and Annual Convention of Association of Indian Zoo and Wildlife Veterinarians. IVRI, Izatnagar, 6th-7th January, 2017, P 48.
2	Ganesh Udupa, K. and Prashanth, N.T., 2017. Prevalence of Gastro-intestinal parasites of free ranging Indian hares *(Lepusnigricollis*) in Institute of Wildlife Veterinary Research campus, Doddaluvara, Kodagu, Karnataka. Compendium of national Congress on Wildlife Health. National Congress on Wildlife Health-2016 and Annual Convention of Association of Indian Zoo and Wildlife Veterinarians. IVRI, Izatnagar, 6th-7th January, 2017, P 61
3	Ganesh Udupa, K., Prashanth, N.T., Vinay, S. and Satheesha, S.P., 2017. Survey of gastrointestinal parasites in wild ruminants under captivity at certain zoological gardens of Karnataka. Compendium of Recent concepts in diagnosis and control of parasitic diseases to combat climate change XXVI National Congress of Veterinary Parasitology and International Symposium at Veterinary College Shivamogga. 15th to 17th Feb., 2017, P 22.
4	Ganesh Udupa, K., Satheesha, S.P., Thimmareddy, P.M., Prasannakumar, S., Appannavar, M.M. and Patil, N.A., 2017. A Study on *Culicoides* (Diptera: Ceratopogonide) midges in Karnataka with special reference to transmission of Bluetongue disease. Compendium of

	Recent concepts in diagnosis and control of parasitic diseases to combat climate change XXVI National Congress of Veterinary Parasitology and International Symposium at Veterinary College Shivamogga. 15th to 17th Feb., 2017, P 63.
5	Ganesh Udupa, K., Thimmareddy, P.M. and Prashanth, N.T., 2017. Prevalence of gastrointestinal of free ranging Indian Pea fowl (*Pavo crisatus*) in the campus of Institute of Wildlife Veterinary Research, Doddaluvara of Kodagu District, Karnataka State Compendium of Recent concepts in diagnosis and control of parasitic diseases to combat climate change XXVI National Congress of Veterinary Parasitology and International Symposium at Veterinary College Shivamogga. 15th to 17th Feb., 2017, P 69
LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA	
1	Siddalingamurthy, H.K., Manjunatha, S.S. and Sreesujatha, R.M., 2017. Non-genetic factors affecting growth performance of Mandya sheep. National Seminar on "Improvement of Small Ruminant Production System for Livelihood Security" CSWRI, Avikanagar. 9th-10th March, 2017, P 72.
2	Siddalingamurthy, H.K., Manjunatha, S.S. and Sreesujatha, R.M., 2017. Assessment of sex ratio in Mandya sheep under farm condition. National Seminar on "Improvement of Small Ruminant Production System for Livelihood Security" CSWRI, Avikanagar. 9th-10th March, 2017, P 76.
3	Sreesujatha, R.M., Siddalingamurthy, H.K. and Manjunatha, S.S., 2017. A study on evaluation of lambing percentage in Mandya sheep through artificial insemination. National Seminar on "Improvement of Small Ruminant Production System for Livelihood Security" CSWRI, Avikanagar. 9th-10th March, 2017, P 123.
4	Manjunatha, S.S., Siddalingamurthy, H.K. and Sreesujatha, R.M., 2017. Comparative study on growth performance of Mandya lambs born through artificial insemination and natural service. National Seminar on "Improvement of Small Ruminant Production System for Livelihood Security" CSWRI, Avikanagar. 9th-10th March, 2017, P 124.
5	Manjunatha, S.S., Siddalingamurthy, H.K. and Sreesujatha, R.M., 2017. Effect of sprouted fenugreek seed supplementation during early lactational period on growth performance of Mandya lambs. National Seminar on "Improvement of Small Ruminant Production System for Livelihood Security" CSWRI, Avikanagar. 9th-10th March, 2017, P 167.
6	Manjunatha, S.S., Siddalingamurthy, H.K., Sreesujatha, R.M. and Prabhu, T.M., 2017. Role of Mega Sheep Seed Project (MSSP) in uplifting the socio-economic status of the sheep farmers in Mandya district of Karnataka. National Seminar on "Improvement of Small Ruminant Production System for Livelihood Security" CSWRI, Avikanagar. 9th-10th March, 2017, P 250.
KRISHI VIGYAN KENDRA, DAKSHINA KANNADA	
1	Harish Shenoy, 2016. Technology Delivery Mechanism of Selective Mechanization in paddy through Front Line Demonstration. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept., 2016, KVAFSU, Bidar, *Pp* 77-78.
2	Harish Shenoy, 2016.Technology Transfer of integrated crop management (ICM) in watermelon through FFS approach. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept.,2016, KVAFSU, Bidar, P 778.
3	Annappaswamy, T. S. and Shivaprakash, S.M., 2016. Integrated fish farming is a tool for farmer's livelihood. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept.,2016, KVAFSU, Bidar.

4	Shivaprakash, S.M. and Annappaswamy, T.S., 2016. Livelihood security of farmers through Swarnadhara poultry farming. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept.,2016, KVAFSU, Bidar.
5	Harish Shenoy, 2016. Integrated Crop Management in Paddy in Coastal Karnataka Abstract published in Second KVK Symposium –Frontline Extension programmes for Realizing Higher Productivity and Profitability in Farming at TNAU, Coimbatore organized by ICAR-Agricultural Technology Application Research Institute Hebbal, Bengaluru-560024 and Directorate of Extension, TNAU Coimbatore, *Pp* 51-52.
6	Rashmi, L. and Girish, B.C., 2016. Zoonotic disease: The concept and need for One health. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept., 2016, KVAFSU, Bidar, P 100.
7	Rashmi, L. and Girish B.C., Staphyloccocus infection in Newzeland white Rabbit. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept., 2016, KVAFSU, Bidar, P 100.
8	Rashmi, L. and Girish B.C., 2016. Report on mycotic abortion in bitch. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept., 2016, KVAFSU, Bidar, P 99.
9	Shilpa, V.T., Rashmi, L. and Girish, B.C., 2016. Cutaneous pox in country birsa with nephrosis. Abstract, Symphosia Poultry health and welfare. Abstract in Souvenir of 12th Kannada Science Congress, 15th-17th Sept., 2016, KVAFSU, Bidar

ABSTRACT OF RESEARCH PUBLICATIONS

Division	*Journal*		*Conference/ Symposium/ Seminar/ Workshops*		*Total*
	Int.	*National*	*Int.*	*National*	
Veterinary College, Bengaluru	48	96	25	133	302
Veterinary College, Bidar	32	41	2	104	179
Veterinary College, Shivamogga	30	39	17	58	144
Veterinary College, Hassan	6	43	4	94	147
Dairy Science College, Bengaluru	17	2	0	3	22
College of Fisheries, Mangaluru	7	32	0	0	39
IAHandVB, Bengaluru	1	6	1	11	19
IWVR, Kudige	0	1	0	5	6
LRIC, Hallikhed	0	2	0	0	2
LRIC, Konehally	0	0	0	0	0
LRIC, Nagamangala	0	3	0	6	9
CRIC, Thimmapur	0	2	0	0	2
KVK-DK, Mangaluru	1	0	0	9	10
FRIC-Bhutnal	1	0	0	0	1
Total	143	267	49	423	882

2. Extension Publications (Books, training manuals, popular articles, leaflets etc)

VETERINARY COLLEGE, BENGALURU

#	*Name of the Scientist/ Teacher*	*Title*	*Year and date of publication*	*Publisher / Remarks*
1	Suresh, B.N., Madhusudhan, H. S., Chethan, K.P. and Suma, N.	A Booklet on 'Nutritional interventions to optimize productivity in livestock'	September, 2016 46+IV pages	Dean, Veterinary College, Hassan: sponsored by NABARD
2	Manjunath Patel, B.H., Suresh, Basavanagoudanavar and Prasanna, S.B.	Goat Rearing by Stall feeding and traditional systems.	(28-3-2017). Extension publication, IVRI, Bengaluru Pages 41	Extension booklet publication in Kannada
3	Suresh,B. N., Prabhu, T. M., Shivakumar, M. C. and Manjunatha.	Utilization of maize cob and husk for feeding dairy cattle	24th Sept., 2016, Veterinary College, Hassan. 21-29 pp	Compendium of workshop on Nutritional interventions to optimize Productivity in Livestock
4	Suma, N., Prabhu, T. M., Anitha, K. C. and Umashankar, B. C.	Safety of Animal feed	5 (10).	Pashubandha
5	Suma, N., Suresh, B.N., Anitha, K.C., Shilpa, V. T. and Girish, B.C.	Karnataka under drought!!! Novel feeds for our livestock	May 22nd - 23rd, KVA	Compendium of State level technical symposium on Innovative strategies for quality livestock production in augmenting rural economy
6	Suresh, B.N., Madhusudan, H.S. and Suma, N.	Nutritional manipulations to combat milk fever	May 22nd - 23rd, KVA	Compendium of State level technical symposium on Innovative strategies for quality livestock production in augmenting rural economy

7	Suresh, B.N., Suma, N. and Madhusudan, H.S.	Dietary modifications to overcome SARA	May 22nd - 23rd, KVA	Compendium of State level technical symposium on Innovative strategies for quality livestock production in augmenting rural economy
8	Suresh, B.N., Suma, N. and Madhusudan, H.S.	Nutritional interventions to reduce ketosis in dairy cattle	May 22nd - 23rd, KVA	Compendium of State level technical symposium on Innovative strategies for quality livestock production in augmenting rural economy
9	Chethan, K.P., Suresh, B.N. and Suma, N.	Feeding of dairy cattle in different phases	24th September, 2016, Veterinary College, Hassan. *Pp* 39-46	Compendium of workshop on Nutritional interventions to optimize Productivity in Livestock
10	Suma, N. and Prabhu, T.M.	Balanced animal feed – More milk production	October, 25th P-35	Sukheebhava Annadata
11	Chethan, K.P., Suresh, B.N. and Umashankar, B.C.	Nutritional management of low fat and low SNF syndrome in dairy cow	24th September, 2016, Veterinary College, Hassan. *Pp* 39-46	Compendium of workshop on Nutritional interventions to optimize Productivity in Livestock
12	Umashankar, B. C., Prabhu, T.M. and Suma, N.	Feeding of pet birds	6 (01).	Pashubhanda
13	Prasanna, S. B., Shankarappa Bhajantari and Umashankar, B.C.	*Handi sakanikege sarala vidhanagalu*	24th September, *Pp* 37-39	Sukheebhava Annadata
14	Arpitha, Umashankar,B.C. and Prasanna, S.B.	*Adhika haalu utpadanege tindi mishranada mahatva*	November, *Pp* 21-23	Sukheebhava Annadata
15	Venu, R., Umashankar, B.C. and Farah Yasmeen.	Silage Making for Small Scale Farmers	6 (01).	Pashubhanda

17	Prasanna, S.B., Shashikumar, M.G., Umashankar, B.C., Shankarappa Bhajantri and Manjunath Patel, B.H.	Rearing and Management of sheep and goat during summer	Vol-2, April,2017, *Pp* 23-24	Sukhibhava Annadata
18	Umashankar, B.C., Arpitha, R., Prasanna, S.B. and Shashikumar, M.G.	Suitable Steps in rearing calves	Vol-2 April,2017, *Pp* 42-44.	Sukhibhava Annadata
19	Prasanna, S.B., Umashankar, B.C., Mahadevappa, D., Gouri, Shankarappa Bhajantri	Silage making and its uses	Vol-2, January,2017, *Pp* 30-32	Sukhibhava Annadata
20	Prasanna, S.B. and Manjunath Patel, B.H.	Suitable housing and management methods for profitable rearing of Goats	Vol-1, December, 2016, *Pp* 30-33	Sukhibhava Annadata
21	Arpitha, R., Umashankar, B.C., Prasanna, S.B. and Shankarappa Bhajantri	Importance of concentrate feeding for increasing milk production	Vol-1, November,2016, *Pp* 20-21	Sukhibhava Annadata
22	Prasanna, S.B., Shankarappa Bhajantri, Umashankar, B.C. and Pruthviraj	Simple techniques for rearing of pigs	Vol-2, September, 2016, *Pp* 37-39	Sukhibhava Annadata
23	Banuprakash, A.R., Rajeshwari,Y.B., Supriya, S., Sudarshan, V., Sowmyashree, B.L., Anup Kumar, P.K. and Chandrashekara, N.	Welfare assessment in farm animal management	10(3): 42-46	*Livestock line*
24	Supriya, S., Rajeshwari, Y. B., Sudharshan, V., Banuprakash, A.R. and Anup Kumar, P.K.	Stress – Its role in reproduction in pigs	9(11): 31-35	*Livestock line*
25	Sudharshan, V., Rajeshwari, Y. B., Supriya, S., Banuprakash, A.R. and anup Kumar, P.K.	Importance of carbon credit in livestock production	9(11): 8-10.	*Livestock line*

26	Arpitha,R., Priyanka ,V.S., Rajeshwari,Y.B., Ramachandraiah, M., Udaykumar, Kiran,M., Mutturaj,E. and Abdulmateen,K.W.,	Role of renewable energy technologies in integrated livestock farming	10(6): 46-50	*Livestock line*
27	Shilpa Shree, J. and Rajeshwari, Y.B.	Changing growth trend in trade of livestock products in India	10(7): 19-21	*Livestock line*
28	Guruprasad, R., Rajeshwari, Y.B., Siddeswara, N.C. and Naveenkumar, S.	Influence of livestock production under factory farming systems on the environment	10(4): 29-36	*Livestock line*
29	Satyanarayan K,V., Jagadeeswary and Mohankumar, S.	Management of Animals during Disasters		*Karuna Animal Welfare Association of Karnataka*
30	Pavan belakeri, Satyanarayan, K. and Jagadeeswary, V.	Fodder App for Livestock Farmers of Karnataka	5(4).	*Pashubandha e bulletin*
31	Pavan Belakeri, Mohankumar, S.V., Jagadeeswary, K. and Satyanarayan	Draught Animal Power for Better Agriculture Production and Rural Development	5(8).	*Pashubandha e bulletin*
32	Van Belakeri, Mohan kumar, S.K., Sathyanarayan, V. and Jagadhishwari	Stylosyanthas	5(9).	*Pashubandha e bulletin*
33	Shilpa Shree, S., Mohankumar, K., Satyanarayan, V. and Jagadeeswary	An Overview of livestock Population in Karnataka	5(9).	*Pashubandha e bulletin*
34	Pavan Belakeri, Mohankumar, S.K., Satyanarayan , V. and Jagadeeswary	Information and communication technology in Animal Husbandry	5(12).	*Pashubandha e bulletin*
35	Mohankumar, S., Pavan Belakeri, K., Satyanarayan, V. and Jagadeeswary	Organic Animal Husbandry	5(12).	*Pashubandha e bulletin*
36	Rao, R. and Satyanarayan, K.,	Small Farmers Make Big Contributions: Dairy Production in India	*Newsletter*	*UCCE Research and Workshops in San Benito, Monterey and Santa Cruz Counties*

37	Shilpa Shree, J., Satyanarayan, K., Jagadeeswary, V. and Lalith Achoth	District wise demand and supply fodder production in Karnataka – A gap analysis	6(2).	*Pashubandha e bulletin*
38	Satyanarayan, K., Jagadeeswary, V. and Pavan Belakeri, K.	Strategieis for Sustainable Livestock Production and Livelihood Security	2017	College Day Magazine

Training Manual

1. Satyanarayan, K., Shiv Kumar Tripathi, Divya, V., Girish Kumar, V. and Nandi, S., 2016. Training manual on Sheep and Goat rearing, Transportation stress in farm animals-Physiological and Behavioural responses, *Pashubandha 5(3).*
2. Narayana Swamy, M., 2016. *Aadu – Kurigala Praudavasthege Pooraka Amshagalu*. *Kuri Mitra* April, 2016. *Pp* 7-9.
3. Narayana Swamy, M. and Ranganath, L., 2016. *Kuri Mekegala Karulininda Shastra Chikitseya Holige Daarada Tayaarike*. *Kuri Mitra*, March, *Pp* 18-19.
4. Narayana Swamy, M., 2016. *Jeevakosha Vignani Yoshinori Osumige Noble Prashasti*. *Vartha Bharathi*, October 23, 2016, *Pp* 7.
5. Narayana Swamy, M., 2016. *Namagenthaha Shikshana Paddathi Beku*? Akriti, Veterinary College Magazine, *Pp*
6. Narayana Swamy, M., 2016. *Pashupalaka Samrat* Ashoka BVCA News Letter, 2 (1) : 8.
7. Narayana Swamy, M., 2016. Dr. Ambedkarara Modala Mahaprabhanda. *Janapada*, April, *Pp* 30-31.
8. Shwetha, H.S., Narayana Swamy, M., Kalmath, G.P. and Chethan Yadav, S., 2016. Immunization against Reproductive Hormones. *Pashubandha, e –bulletin*, 5(6).
9. Shrikrishna Isloor- Published an article on 'Control of Rabies' in SAHAKARA monthly magazine published by Karnataka Rajya Sahakara Mahamandali. September, 2016
10. Isloor, S. and Rathnamma, D., Santhosh, A.K., Sunil Kumar, K.M., 2016. " Prevention of Rabies" in Kannada - *In* : Pashubandha, e-bulletin, September, 2016
11. Shrikrishna Isloor, Januvarugalalli Brucellosis: *Kandu Roga Mattu Niyantrana* in Jana Madhyama, Kannada daily. 19-09-2016, P 5
12. Shrikrishna Isloor published an article on 'Brucellosis' in SAHAKARA monthly magazine published by Karnataka Rajya Sahakara Mahamandali. October, 2016
13. Shrikrishna Isloor, *Huchuchu nayi roga hechachagadirali* in Jana Madhyama, Kannada daily. 04-10-2016
14. Kamal Hasan, Rathnamma, D. and Kshama, M.A., 2017. Canine Parvoviral Gastroenteritis-Management and Control. *In*: Pashubandha, e-bulletin, March, 2017.
15. Training manual and compendium on "Clinical parasitological techniques and molecular methods in the detection of parasitic diseases" by Dr. Placid E. D'Souza, Dr. P.M. Thimmareddy, Dr. G.S. Mamatha, Dr. Jaya N. Lakkundi.
16. Practical Manual was prepared for BVSc and A H students as per the MSVE 2008 new syllabus of the Veterinary Council of India for the following course
    i. General Veterinary Parasitology and Helminthology by Dr. Placid E. D'Souza, Dr. G.S. Mamatha, Dr. Jaya N. Lakkundi

ii. Veterinary Entomology and Acarology by Dr. Jaya N Lakkudi, Dr. Placid E. D'Souza, Dr. G.S. Mamatha
iii. Veterinary Protozoology by Dr. G.S. Mamatha, Dr. Placid E. D'Souza, Dr. Jaya N Lakkudi

17. "Clinical Parasitology and Parasitological Techniques" manual for trainee teachers/scientists by Dr. Placid E. D'Souza, Dr. G.C Puttalakshmamma, Dr. G.S. Mamatha, Dr. Jaya N. Lakkundi and Dr. P.M. Thimmareddy.

DEPT. VPH

#	**Title of Manual**	**Prepared by**
1	'Hygienic production of foods of animal origin and food safety' (in Kannada)	Dr. Leena, G. Dr. Mohan, H.V. Dr. Nishanth, C. Dr. H.N. Narasimha Murthy Dr. V. Chandrashekar Murthy

Practical Manuals prepared for UG Courses

#	**Title of Manual**	**Prepared by**
1	Milk and Meat Hygiene, Food Safety and Public Health VPE-311 (2+1)	Dr. Leena, G. Dr. Mohan, H.V.
2	Environment and Environmental Hygiene VPE-511	Dr. Leena, G. Dr. Mohan, H.V.
3	Veterinary Epidemiology and Zoonoses VPE-321 (2+1)	Dr. Leena, G. Dr. Mohan, H.V. Dr. Nishanth, C.

Extension brochures/leaflets published

#	***Title of Brochure / Leaflets***	***Prepared by***
1	Anthrax (both in Kannada and English)	Dr. Leena, G. Dr. Mohan, H.V. Dr. Nishanth, C.
2	Tuberculosis (both in Kannada and English)	Dr. Leena, G. Dr. Mohan, H.V. Dr. Nishanth, C.

Popular articles published

1. Nishanth, C., Mohan, H.V. and Leena, G., 2016. Zoonotic cryptosporidiosis. Pashubandha monthly e-Bulletin, November, 2016.
2. Nishanth, C., Mohan, H.V. and Leena, G., 2016. Ebola viral disease – a public health concern. Pashubandha monthly e-Bulletin, December, 2016.

#	Name of the Scientist	Title	Year and date of Publication	Publisher / Remarks
1	Dr.M.L.Satyanarayana, Dr.H.D.Narayanaswamy, Dr.Suguna Rao	Practical Manual for VPP 311 Practical Manual for VPP 211 Practical Manual for VPP 321 Practical Manual for VPP 221	2016-17	For Undergraduate courses

DEPT. TVCC

Hassan, K., Rathnamma, D. and Kshama, D., 2017. Canine Parvoviral Gastroenteritis: Management and control. *Pashubandha*. 6(3): 3-4.

DEPT. VMD

i) Books Published:

a. Diseases of the goat – Dr. P. T. Ramesh

DEPT. VSR

Text book: General surgery, anesthesiology and diagnostic imaging by Ramesh Rathod, L. Ranganath, M.S. Vasanth and B.N. Nagaraja

VETERINARY COLLEGE, BIDAR

#	Title of the publication	Authors	Month and Year	Publishers
1	Popular Article-Bovine Neosporosis – A Major culprit for bovine abortions in cows	Niranjan Kuamr, S. Samanta and Adeppa, J.	2016	*Indian Farming.*
2	Thermography in Veterinary Medicine	Santosh, P.S., Ranganath, L. and Sunilchandra, U., Hiremath, S.V.	2016	*The North East Veterinarian,* 16(2):35-38
3	Onion poisoning during summer- Prajavani news paper clip	Patil, N.A.,	31-05-2016	Prajavani news paper
4	Training manual on "Therapeutic management of infertile animals.	Tandle, M.K., Bijurkar, R.G. and Doddagoudar, V. G.	July 2016	Deputy Director, Dept of AHVS, Bidar (Under RKVY Scheme)

5	Text Book on "Veterinary Andrology and Artificcial Insemination in Domestic Animals"	Tandle, M.K.	2017	New India Publishing Agency, New Delhi
6	Training manual on Skill development for rural unemployed youth on animal husbandry and animal health care.	Dilipkumar, Benagi, V. I. Shivaprakash, S.M. and Shivaprakash, B.V.	Jan, 2017	DE and SAMETI (North), UAS, Dharawad
7	Folder (Kannada) - Clean Milk Production.	Arun Kharate, Prakashkumar Rathod, Ananth Rao Desai and Channappagouda Biradar	August, 2016	Principal Investigator, KWDP: Sujala-III project, Veterinary College, Bidar
8	Booklet (Kannada) - Green Fodder Crops.	Mahantesh Nekar, Ananth Rao Desai, Prakashkumar Rathod, Vivek Patil and Channappagouda Biradar	September, 2016	
9	Folder (Kannada) - Mastitis in Dairy Animals	Ananth Rao Desai, Prakashkumar Rathod, Shivamurty and Channappagouda Biradar	August, 2016	
10	Folder (Kannada) - Silage production	Ramachandra B, Vivek Patil, Ananth Rao Desai and Prakashkumar Rathod	September, 2016	Principal Investigator, KWDP: Sujala-III project, Veterinary College, Bidar
11	Folder (Kannada) - Selection and Management of breeding Buck	Siddalingswamy Hiremath, Ananth Rao Desai, Yathish, H.M. and Prakashkumar Rathod	January, 2017	
12	Leaflet (Kannada) - Osmanabadi Buck	Siddalingswamy Hiremath, Prakashkumar Rathod and Yathish, H.M.	January, 2017	
13	Videos (Kannada) - About Sujala Project Activities	Prakashkumar Rathod	May, 2016	

14	Booklet (Kannada) - Scientific Dairy Farming	Prakashkumar Rathod, Channappagouda Biradar and Ananth Rao Desai	2017	Head, EEC, Bidar (Under Directorate of Extension, KVAFSU, Bidar)
15	Booklet (Kannada) - Scientific Goat Farming	Channappagouda Biradar, Prakashkumar Rathod and Ananth Rao Desai	2016	
16	Compendium on Regional workshop on Mentoring Young Extension Professionals for conduct of Scientific Research	Sathyanarayana, C.H. and Prakashkumar Rathod	July 2016	IVEF, Puducherry
17	Folder (Kannada)- Profitable Dairy Farming	Ananth Rao Desai, Prakashkumar Rathod and Channappagouda Biradar	2017	Directorate of Extension, KVAFSU, Bidar
18	Training Manual Chapter- *Susthira vyavasayadalli pashu sangopaneya patra*	Vivek M. Patil, Jagannatha Rao, B. and Vinayananda C.O.	2017	Directorate of Extension, KVAFSU, Bidar
19	Booklet- Silage in kannada (Rasamevu)	Biradar, U.S.	2016	Directorate of Extension, KVAFSU, Bidar
20	Training Manual Chapter- Scientific feeding of Goat	Ravindra, D.B.	2016	Directorate of Extension, KVAFSU, Bidar
21	Training Manual Chapter- Balance feeding of Sheep and Goat	Ravindra, D.B.	2016	Directorate of Extension, KVAFSU, Bidar
22	Training Manual Chapter- Scientific poultry feeding	Ravindra, D.B.	2016	Directorate of Extension, KVAFSU, Bidar
23	Popular Article- A story of Thermometer, Kannada popular article	Siddalingswamy Hiremath	2016	Pashuvaidya Sahitya Loka Magazine
24	Kannada Popular article- Brucellosis	Nagaraju, N. and Siddalingswamy Hiremath	2016	Janamitra, Kannada daily

VETERINARY COLLEGE, SHIVAMOGGA

#	Name of The Scientist	Title	Year and Date of Publication	Publisher / Remarks
1	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Silage making	2016-17	KWDP-Sujala-III Project
2	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Introduction of Elite Rams for controlling inbreeding	2016-17	KWDP-Sujala-III Project
3	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Hay making	2016-17	KWDP-Sujala-III Project
4	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Balanced Livestock Ration	2016-17	KWDP-Sujala-III Project
5	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Management of newborn calves	2016-17	KWDP-Sujala-III Project
6	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Management and rearing of Native Poultry	2016-17	KWDP-Sujala-III Project
7	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Clean milk production	2016-17	KWDP-Sujala-III Project
8	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Mastitis and its control	2016-17	KWDP-Sujala-III Project
9	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Enrichment of crop residues	2016-17	KWDP-Sujala-III Project
10	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Control of parasites	2016-17	KWDP-Sujala-III Project

11	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Management of goats during transitional period of reproduction	2016-17	KWDP-Sujala-III Project
12	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Wool production and chording of wool	2016-17	KWDP-Sujala-III Project
13	Veeranna, K.C., Madhava Prasad, C.B. and Nagabhushana, V.	Importance of Fat and SNF content of milk and their improvement	2016-17	KWDP-Sujala-III Project
14	Ananda, K.J., Pradeep, B.S., Malatesh, D.S. and Rakesh, R. L.	An Update on Diagnosis and Control of Parasitic diseases	2016-17	GRS printers and released during XXVI NCVP and International Symposium organized by Department of Veterinary Parasitology, Veterinary College, Shivamogga held during 15th to 17th February, 2017
15	Ananda, K.J., Pradeep, B.S., Malatesh, D.S. and Rakesh, R. L.		2017	Souvenir cum Abstract on "Current Concept on Diagnosis and Control of parasitic diseases to combat climate change" released during XXVI NCVP and International Symposium organized by Department of Veterinary Parasitology, Veterinary College, Shivamogga held during 15th to 17th February, 2017
16	Lakshmishree, K.T., Dhoolappa, M., Mutturaj, R.P. and Prasad R.V.,	"*Hainu rasugala deha mattu angangagala rachane*"	2016	chapter in Farmers training Kaipidi "Sustira badukige hainugarike" 6-7th *Pp* 2-6.

17	Shettar, V.B., Pragathi, K.S. and Rudresh, B.H.	ಮಲೆನಾಡು ಗಿಡ್ಡ ತಳಿ ಮತ್ತು ಸಂವರ್ಧನೆ ಪದ್ಧತಿಗಳು	2017	ಮಲೆನಾಡು ಗಿಡ್ಡ ತಳಿ (ಮಾಹಿತಿ ಕೈಪಿಡಿ), ಮಲೆನಾಡು ಗಿಡ್ಡ ತಳಿ ರಾಸುಗಳ ಮೇಳದ ವಿಶೇಷ ಪ್ರಕಟಣೆ: 2007 ಪಶುವೈದ್ಯಕೀಯ ಮಹಾವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ, ಪುಟ: 5–11
18	Desai, B.A., Chidanandaiah	Quality milk production and hygienic milk product preparation.	2016	Compendium on "community hygienic practices in milk animals and production of wholesome milk products". Dept of VPE,VCS Shivamogga,*Pp* 57-63
19	Desai, B.A. and Chidanandaiah	"Opportunities for value addition of milk"	2016	Negila Midita 10(2).P 13
20	Desai, B.A. and Chidanandaiah	"How to transport sheep and goat"	2016	Negila Midita 8(2).P 23
21	Desai, B.A. and Chidanandaiah	"Transportation of cattle and regulations"	2016	Negila Midita 6(2).*Pp* 12-13
22	Desai, B.A. and Chidanandaiah	Importance of pork and its product preparation	2106	"Profitable pig rearing" (Eds, Satish G M and Vijayakumar S) ,*Pp* 121-124.
23	Chidanandaiah and Desai, B.A.	"Importance of poultry meat and Demonstration of poultry meat products	2016	*KOLI SAKANIKE* (Eds.,Krishnamurthy T.N, Satish, G.M. and Indresh H.C.) GRS Digital world,Shivamogga (Publisher) *Pp* 84-87
24	Murugeppa, A. and Shankare Gowda, A.J.	*"Labhadayaka handi sakanike"*	2016	Vijalaksmi prakashana, Mysuru-23

25	Shankare Gowda , A.J. and Ravikumar, B.P.	*"Labhadayaka handi sakanike"*	2016	Vijalaksmi prakashana, Mysuru-23
26	Shankare Gowda, A.J., Ravikumar , B.P. and Murugeppa, A.	*"Koli sakanike"*	2016	GRS Digital World, Shivamogga
27	Prashantkumar Waghe, Lokesh L.V., Pavithra, B. H. and Prakash, N.,	Simulation modules in pharmacology for academic learnings in Veterinary, Pharmacy, Medical and Ayurvedic science degree programmes.	2016	*Ethics and welfare issues in animal experiments*. Pp45-50.
28	Pavithra, B. H , Prashantkumar Waghe, Lokesh L.V. , Prakash Nadoor and Prasad, N.D.,	Replacement of mammalian animal models by Zebra fish (*Danio rerio*) in biomedical research	2106	*Ethics and welfare issues in animal experiments*. Pp 51-55.
29	Prasad, R.V., Lakshmishree, K.T ., Dhoolappa,M., Mutturaj, R.P. and Prakash,N.,	Flash based innovative technique as an alternative to animal dissection		*Ethics and welfare issues in animal experiments*. Pp 56-58.

VETERINARY COLLEGE, HASSAN

Training Manuals:

1. Vasanth, M.S., Kumar, R., Manjunatha, L., Handage, H., Sindhu M.G., Moksha,, Akkanagamma and Venugopal., 2016. Training manual on Ration Balancing Programme, *Compendium (Kannada)*, 26th June to 6th July-2016.
2. Vasanth, M.S., Shivkumar, M.C. and Manjunatha, L., 2016. Training manual on Improvised Poultry Farming, *Compendium (Kannada)*, Aug -2016.
3. Vasanth, M.S., Manjunatha, L., Jayashree, R., Suresh, B.N., Balaraju, B.L. and Roopa, T.K., 2016. Training manual on Scientific Goat Farming, *Compendium (Kannada)*, Dec -2016.
4. Vasanth, M.S., Manjunatha, L., Suresh, B.N., Madhusudhan, H.S. and Balaraju, B.L., 2016. Training manual on Improvised Dairy Farming, *Compendium (Kannada)*, Dec -2016.
5. Vasanth, M.S., Shivkumar. M.C., Manjunatha, L., Chethan, K.P., Sunil Kumar, M.A., Roopa, T.K. and Balaraju, B.L., 2017. Training manual on Improvised Piggery Farming, *Compendium (Kannada)*, Jan -2017.
6. Vasanth, M.S., Manjunatha, L., Naveen Kumar, G.S., Doddamani, S. and Balaraju, B.L., 2017. Training manual on Improvised Sheep Farming, *Compendium (Kannada)*, Feb -2017.
7. Vasanth, M.S., Manjunatha, L., Jayashri, R., Roopa, T.K., Balaraju, B.L. and Harish Kumar, D.V., 2017. Training manual on Improvised Sheep Farming, *Compendium (Kannada)*, Feb -2017.
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2. Chandrashekar, K.M. and Sharada, R., 2016. Beware of bird droppings. In Pashudhan, 44 (5).
3. Chandrashekar, K.M. and Sharada, R., 2016. Birds are bothering – have your noticed (Kannada). In Kannada Prabha, Monday, 22nd August, 2016.
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8. Jayashree, R., 2016. Practical tips for calculation of green fodder requirement and cultivation schedule for year round fodder availability. Pashubandha, e- Bulletin. 5(10): 9-13.
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10. Nagaraju, N. and Siddalingaswamy Hiremath, 2016. Brucellosis: Precautions for prevention**.** Janamitra daily news paper dated 6th October 2016.
11. Ravikumar, P., 2016. Anestrous in dairy cattle. Negilamiditha, 2(10):28.
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13. Ravikumar, P., 2016. Endoparasitic infection in livestock. Negilamiditha, 2(6):28.
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2. Chethan, K.P., Roopa, T.K., Chandrashekar, K.M. and Shrikanth Doddamani., 2017. Fodder crops (Kannada). Folder prepared under SCP-TSP grants from Veterinary College, Hassan.
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4. Chethan, K.P., 2017. Enrichment of dry fodder (Kannada). Leaflet prepared under Sujala-III Watershed Project.
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6. Roopa, T.K. and Chethan, K.P., 2017. Alternate fodder resources (Kannada). Folder prepared under SCP/TSP grants from Veterinary College, Hassan.
7. Roopa, T.K. and Chethan, K.P., 2017. Cultivation practices of fodder crops (Kannada). Leaflet prepared under SCP/TSP grants from Veterinary College, Hassan.
8. Shrikanth Doddamani, Roopa, T.K., Chandrashekar, K.M. and Chethan, K.P., 2017. Alternative Fodder crops (Kannada). Folder prepared under SCP-TSP grants from Veterinary College, Hassan.
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DAIRY SCIENCE COLLEGE, BENGALURU
(Books, training manuals, popular articles, leaflets etc)

1. Practical Manual on Byproduct Technology-2017 by The Staff of Dairy Technology
2. Practical Manual on Food Technology-II : 2017 by The Staff of Dairy Technology
3. Praveen A.R., 2016. Contributed chapter for book Dairy Technology by V.P.Singh and Neelam sachan *"Preparations and standards of Paneer, Chhana, Khoa, Lassi and Dahi"* 191-214.
4. Leaflet on 'Clean milk Practices" was prepared and circulated among milk producers of Rajaghatta village, Doddaballapura Taluk from 20th Feb. 2017 to 1st March 2017 during rural dairy work experience programme.

DAIRY SCIENCE COLLEGE, BENGALURU
(Books, training manuals, popular articles, leaflets etc)

1. Training Manual on Management of Microorganisms in raw milk
2. Training manual on Clean Milk Production
3. Leaflets on Management of Microorganisms in raw milk
4. Leaflets on Clean Milk Production

COLLEGE OF FISHERIES, MANGALURU
(Books, training manuals, popular articles, leaflets etc)

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2. Ramesh, K.S., Ganapathi Naik, M., Satish Poojari, Abhiman, 2017. A brochure on "National surveillance programme for aquatic animal diseases".
3. Prepared leaflets for the benefit of farmers and scientists entitled "Fishing Holiday" published by College of Fisheries, Mangaluru (English and Kannada)

4. Varadaraju, S., Hanumanthappa, B. and Shashidhar, H., Badami. 2016. *Meenu sakanikege sooktha sthala da Aayke, Kolagala samyojane vinyasa hagu nirmana*. Published by Director of Extension, KVAFSU
5. Ganeshprasad, L., Vijayakumar, S., 2016. "*Meenu Sakane Kolagala Nirmana*" Krushipete Oct – 2016.
6. Ganeshprasad, L., Vijayakumar, S., 2016. "*Javabdariyutha meenugarikeyalli neethi Samhithe"* Annadatha, October -2016.
7. Vijayakumar, S., Ganeshprasad, L., 2016. " *Meenena kobbu hrudroga Sanjeevini*" Annadatha November -2016
8. Vijayakumar, S., Ganeshprasad, L., 2017. "*Meenena Aharadalli jeevasathwagalu mathu kanijamshagalu*" Negila Miditha, January -2017.
9. Jaya Naik, and Hanumanthappa, B., 2016. "*History and development of one man coracle of India and world*". *Aqua internationall,* June-*2016*
10. Jaya Naik, and Hanumanthappa.B., 2016. "*Effect of Stake net Fishery over Fishermen and their Livlihood" Aqua international,* May-*2016*
11. Jaya Naik, and Hanumanthappa, B., 2016. *"Different types of Traditional Fishing crafts and gears used to catch fishes along Indian coast*" *Aqua international, April-2016*

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1. Brochure about vaccine produced in IAHandVB.
2. Brochure about Enterotoxaemia disease.
3. Brochure about Black quarter disease.
4. Brochure about Haemorrhagic Septicaemic disease.
5. Brochure about Anthrax disease.
6. Training manuals about trainings held at SRDDL.
7. Brochure and Pamphlet on K strain of NDV.
8. Dr. Ganesh Hegde, **"**ಒಗ್ಗರಣೆ ಡಬ್ಬಿಯಲ್ಲಿ ಪಶು ಆರೋಗ್ಯ**"** 16.7.2017, ಸಂಗ್ರಹ ಪುಸ್ತಕ (140 pages).

9. Dr. Ganesh Hegde, Spices for animal wellness in SPICE INDIA magazine September 2016.
10. Dr. Ganesha Hedge Uterine prolapse in large animals "ಜಾನುವಾರುಗಳಿಗೆ ಮೈ ಹಾಯದಿರಲಿ".
11. Dr. Ganesha Hedge , "Organic milk" 'ಸಾವಯವ ಹಾಲು' in ವಿಜಯವಾಣಿ daily 7.11.2017.
12. Dr. Ganesha Hedge , "Drought mitigation" 'ಭೂಮಿಗೆ ಜ್ವರ ಗೋವಿಗೆ ಬರೆ' ಸಿರಿಸಮೃದ್ಧಿ monthly November 2017.
13. Dr. Ganesha Hedge, 'ಮಾರಕ ರೇಬೀಸ್' ಮಂಗಳ ವಾರಪತ್ರಿಕೆ 21.11.2017.
14. Dr. Ganesha Hedge, 'ಬರಗಾಲಕ್ಕೆ ಹೆದರಿ ಜಾನುವಾರಿ ಮಾರದಿರಿ' ಹೊಸ ದಿಗಂತ ದಿನಪತ್ರಿಕೆಯ ಕೃಷಿ ಪುರವಣಿ, 30.11.2017.
15. Dr. Ganesha Hedge, 'ಬರಗಾಲದಲ್ಲಿ ಜಾನುವಾರು ಆಹಾರ–ಬೆಳೆಯುಳಿಕೆಗಳು" 7.12.2017.
16. Dr. Ganesha Hedge, Spices for animal wellness in SPICE INDIA magazine February 2017.
17. Dr. Ganesha Hedge, ಜಾನುವಾರು ಸಮೃದ್ಧಿಗೆ ಹಣ್ಣು ತರಕಾರಿ ತ್ಯಾಜ್ಯ ಪ್ರಜಾವಾಣಿ, 7.3.207.
18. Dr. Ganesha Hedge, ಹೈನುಗಾರಿಕೆ ನಷ್ಟದ ಬಾಬತ್ತೇನಲ್ಲ ಹೊಸ ದಿಗಂತ, 15.3.2017.

INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

b. Training Manuals

1. GaneshUdupa, K., 2016. Compendium of the Training programme on. "Wild animal tranquilization".
2. GaneshUdupa, K., 2016. Compendium of the training programme on "Tranquilization of Wild animals".
3. GaneshUdupa, K., 2017. Compendium of the workshop on "Chemical immobilization of Wild animals"

c. Popular Articles

1. Ganesh Udupa, K., 2016. ವನ್ಯಜೀವಿಗಳಿಂದ ಉಂಟಾಗುವ ಬೆಳೆಹಾನಿ ತಡೆಗಟ್ಟುವ ಮಾರ್ಗೋಪಾಯಗಳು (Crop damage by Wild Animals and its Control measures) Pashu Sanjeevini. 2016 Pp. (10-11).

LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA

Extension Publications (Books, training manuals, popular articles, leaflets etc)

Sl. No.	Name of The Scientist	Title	Year and Date of Publication	Publisher/Remarks
1	Siddalinga Murthy, H. K., Manjunatha S.S. and Sreesujatha, R.M.	Mandya Sheep conservation	2016-17	LRIC(S), Nagamangala
2	Siddalinga Murthy, H.K., Manjunatha, S.S. and Sreesujatha, R.M.	Mega Sheep Seed Project on Mandya Sheep: Folder	2016-17	LRIC(S), Nagamangala

FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

i. Popular Articles

#	*Month andyear*	*Authors*	*Title of the article*	*Name of the Magazine/ Bulletin (Vol No:Page No)*
1	September-October, 2016	Dr. Ravindragouda Patil	Production of genetically engineered aquatic organisms for research and culture	Aquaculture Times, 2(5):14-15
2	September-October, 2016	Dr. Ravindragouda Patil, Dr. Y. Basavaraju and N. Manjappa	Livelihood upliftment of fish farmers through integrated fish farming	Aquaculture Times, 2(5):24-26

ii. Leaflets/Bulletins/Folders

#	*Type of publication*	*Month and Year*	*Authors*	*Title of the Publication*
1	01 February 2017	Dr. Ravindragouda Patil	"ಸಮಗ್ರ ಮೀನು ಕೃಷಿ ಮಾಡಿರಿ–ಅತ್ಯಧಿಕ ಲಾಭ ಪಡೆಯಿರಿ"	ಜನವಾದಿ

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

Sl. No	*Name of the Scientist*	*Title*	*Year and date of publication*	*Publisher / Remarks*
1	Dr. Sangamesh, K., Dr. Manjunath Patel, Dr. Manjunath, V.B. and Dr. Shivakumar, K. Radder	Folder on "Silage Making"	2016	AHP, Shiggaon, Sujala 3
2	Dr. Shivakumar, K. Radder, Dr. Rudraswamy, Dr. Sangamesh, K. and Dr. Manjunath, V.B.	Folder on "Dry Fodder Enrichment"	2016	AHP, Shiggaon, Sujala 3
3	Dr. Shivakumar, K. Radder, Dr. Shambhulingappa, B.G. and Dr. Manjunath, V.B.	Book on Fodder Movement	2016	Directorate of Extension, KVAFSU, Bidar
4	Dr. Shivakumar, K. Radder and Dr. Manjunath, V.B.	Success story Fodder Nursery - 1	Sept, 2016	KVAFSU, Sujala unit.
5	Dr. Shivakumar, K. Radder and Dr. Manjunath, V.B.	Success story Fodder Nursery - 2	Sept, 2016	KVAFSU, Sujala unit.
6	Dr. Shivakumar, K. Radder	Training Module "Scientific buffalo rearing"		For Sujala - III
7	Dr. Shivakumar, K. Radder	Training Module "Effective utilization of dry fodder"		For Sujala - III

KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

Popular articles

#	Title	Authors name	Number
1	ಹುಣಸೆ ಮಹತ್ವ ಹಾಗೂ ಮೌಲ್ಯವರ್ಧಿತ ಉತ್ಪನ್ನಗಳು: **ಕೃಷಿ ಬಿಂಬ** ಏಪ್ರಿಲ್ 2016, 15 (5), ಪುಪು 37–38	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ, ಹರೀಶ್ ಶೆಣೈ ಮತ್ತು ತೇಜೇಶ ಎ.ಜಿ.	03
2	ಯಾಂತ್ರೀಕೃತ ಭತ್ತದ ಕೃಷಿ –ಒಂದು ಯಶೋಗಾಥೆ **ಕೃಷಿ ಸಂಕಲ್ಪ** ಜೂನ 2016, 1(2),: ಪುಪು 10–11	ಹರೀಶ್ ಶೆಣೈ	01
3	ಮುಂಗಾರು ಸಮೀಪಿಸುತ್ತಿದೆ– ರೈತರೆ ಸಿದ್ದರಾಗಿ **ಕೃಷಿ ಬಿಂಬ** ಜೂಲೈ 2016, 15(8): ಪುಪು 3–6	ಹರೀಶ್ ಶೆಣೈ	01
4	ಹಸಿವನ್ನು ನೀಗಿಸುವ ಹಲಸು !– **ವಾರ್ತಾಭಾರತಿ ಪತ್ರಿಕೆ** ಮಂಗಳೂರು 15 ಜೂಲೈ 2016, ಪು–7	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ ಮತ್ತು ಡಾ. ಶಿವಕುಮಾರ ಮಗದ	02
5	ಹಸಿವನ್ನು ನೀಗಿಸುವ ಹಲಸು – **ಜಯಕಿರಣ ಪತ್ರಿಕೆ** ಮಂಗಳೂರು 16 ಜೂಲೈ 2016, ಪು–4	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ ಮತ್ತು ಡಾ. ಶಿವಕುಮಾರ ಮಗದ	02
6	ರಸಗೊಬ್ಬರ ಸಮರ್ಥ ಬಳಕೆ **ಕೃಷಿ ಬಿಂಬ** ಆಗೋಸ್ತ 2016, **15**(9) : ಪುಪು 3–6	ಹರೀಶ್ ಶೆಣೈ	01
7	ಅಜೋಲ್ಲಾ– ಭತ್ತದ ಬೆಳೆಗೆ ಜೈವಿಕ ಗೊಬ್ಬರವು ಹೌದು– **ಕೃಷಿ ಜಾಗರಣ** ಆಗಸ್ಟ್ 2016, 2(8), ಪುಪು 50–52	ಹರೀಶ್ ಶೆಣೈ	01
8	ಅಜೋಲ್ಲಾ– ಭತ್ತದ ಬೆಳೆಗೆ ಜೈವಿಕ ಗೊಬ್ಬರ– **ಕೃಷಿ ಬಿಂಬ** ಸೆಪ್ಟೆಂಬರ್ 2016, 15 (10) ಪುಪು 17–18.	ಹರೀಶ್ ಶೆಣೈ	01
9	ರೋಗನಿರೋಧಕ ವಿಶೇಷತೆಯುಳ್ಳ ಹಣ್ಣು ದಾಳಿಂಬೆ : **ಕೃಷಿ ಬಿಂಬ** ಸೆಪ್ಟೆಂಬರ್ 2016,15, (10), ಪುಪು 6,7,9	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ	01
10	ಬೆಂಡೆ ಆರೋಗ್ಯಕ್ಕೆ ಯೋಗ್ಯ ಬೆಳೆಗಾರರಿಗೆ ಭಾಗ್ಯ: **ಕೃಷಿ ಬಿಂಬ** ಸೆಪ್ಟೆಂಬರ್ 2016, 15(10), ಪುಪು 28–30	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ	01
11	ಶ್ರೀ ಪದ್ದತಿ ಭತ್ತದ ಬೇಸಾಯ–ಹೆಚ್ಚು ಇಳುವರಿ ಹಾಗೂ ಆದಾಯ– **ಕೃಷಿ ಬಿಂಬ** ಅಕ್ಟೋಬರ , 201615(11), ಪುಪು 8–11.	ಹರೀಶ್ ಶೆಣೈ	01
12	ಆರೋಗ್ಯಕ್ಕೆ ಯೋಗ್ಯ ತೊಂಡೆ: **ಕೃಷಿ ಬಿಂಬ** ಅಕ್ಟೋಬರ್ 2016, 15(11), ಪುಪು 28–30	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ	01
13	ಸುಧಾರಿತ ಕಾಂಪೋಸ್ಟ ಗೊಬ್ಬರ– **ಕೃಷಿ ಬಿಂಬ** ನವೆಂಬರ 2016, **15**(12), ಪುಪು 53–56	ಹರೀಶ್ ಶೆಣೈ	01
14	ಹಣ್ಣುಗಳ ರಸ ಆರೋಗ್ಯಕ್ಕೆ ಹಿತಕಾರಕ: **ಕೃಷಿ ಬಿಂಬ** ನವಂಬರ್ 2016, 15(12), ಪುಪು 32–37–42	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ	01
15	ವೈಜ್ಞಾನಿಕ ಮೀನು ಕೃಷಿ **ಕೃಷಿ ಬಿಂಬ** ನವಂಬರ್ 2016, 15(18), ಪುಪು 38–42	ಟಿ.ಎಸ್.ಅಣ್ಣಪ್ಪಸ್ವಾಮಿ	01
16	ಕರಾವಳಿಯ ಪುಷ್ಪಗಳ ರಾಣಿ ಉಡುಪಿ ಮಲ್ಲಿಗೆ – **ಕೃಷಿ ಬಿಂಬ** : ಡಿಸೆಂಬರ್ 2016, 16 (1), ಪುಪು 3–4–5	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ	01
17	ಹಸಿವನ್ನು ನೀಗಿಸುವ ಹಲಸು !– **ನೇಗಿಲಮಿಡಿತ** :ಡಿಸೆಂಬರ್ 2016, 2 (12), ಪುಪು 6–7	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ ಮತ್ತು ಡಾ. ಶಿವಕುಮಾರ ಮಗದ	02

18	ಸಮಗ್ರ ಕೃಷಿ –ಸುಸ್ಥಿರ ಆದಾಯಕ್ಕೆ ರಹದಾರಿ– **ಕೃಷಿ ಬಿಂಬ** ಜನವರಿ 2016, **16**(2), ಪುಪು 14–17	ಹರೀಶ್ ಶೆಣೈ	01
19	ಹಣ್ಣು ತರಕಾರಿಗಳಿಂದ ಆರೋಗ್ಯ ಸದ್ರಡ ಸಾಧ್ಯ– **ಕೃಷಿ ಬಿಂಬ** ಜನವರಿ **16**(2), ಪುಪು 25–26	ಪಾಟೀಲ ರವೀಂದ್ರ ಸಂಗನಗೌಡ	01
20	ದಕ್ಷಿಣ ಕನ್ನಡ ಜಿಲ್ಲೆಯ ಮಣ್ಣಿನ ಗುಣಧರ್ಮಗಳು, ಸಮಸ್ಯಗಳು ಹಾಗೂ ನಿರ್ವಹಣೆ– **ಕೃಷಿ ಬಿಂಬ,** ಫೆಬ್ರವರಿ 2017, **16**(3), ಪುಪು 26–27	ಪುನೀತಾ ಬಿ.ಸಿ., ಹರೀಶ್ ಶೆಣೈ ಮತ್ತು ರಶ್ಮಿ.ಎಸ್.	03
21	Management of inflorescence die back and inloresence die back in caterpillar in Arecanut- **ಕೃಷಿ ಬಿಂಬ, ಫೆಬ್ರವರಿ** 2017, **17**(3), Pp 12-13.	Rashmi.S., Rohini.B.S. and Bhagyashree,C.	03
22	Management of quick wilt in pepper **ಕೃಷಿ ಬಿಂಬ, ಫೆಬ್ರವರಿ** 2017, **17**(4), Pp 25-26.	Rashmi.S,	01
23	Important disease affecting native fowls , **ಕೃಷಿ ಬಿಂಬ, ಮಾರ್ಚ್** 2017, Pp 19-21	Rashmi L,	01
24	Important native brides and developed native brides and their management **ಕೃಷಿ ಬಿಂಬ, ಮಾರ್ಚ್** 2017, Pp 15-18	Rashmi L,	01
25	Organic Animal Husbandry practices; Basic principles and standards. Training manual ICAR short course on agroeco tourism. November-2016 P 16	Shivasharnappa, Rashmi, L. and Charlet Amelo	03
26	Intellectual property rights –An Over view. Karnataka Veterinary conference June-2016	Rashmi, L. and Chandrashekar, A.M.,	02
Training manual	ಸ್ವರ್ಣಧಾರ–ಸುಧಾರಿತ ನಾಟಿಕೋಳಿ ಸಾಕಣಿ ರೈತ ಕ್ಷೇತ್ರ ಪಾಠಶಾಲೆ	ರಶ್ಮಿ ಎಲ್, ಶಿವಕುಮಾರ್ ಮಗದ, ಮತ್ತು ಟಿ.ಎಸ್. ಅಣ್ಣಪ್ಪಸ್ವಾಮಿ	30

V. FINANCE AND BUDGET

RECEIPTS AND PAYMENTS FOR THE YEAR 2016-17 (ACCOUNTS)							
RECEIPTS				**EXPENDITURE**			
Sl. No	**Particulars**	**Plan**	**Non-Plan**	**Sl. No**	**Particulars**	**Plan**	**Non-Plan**
A	**GENERAL FUNDS**			**A**	**GENERAL FUNDS**		
I-1	**Salary & Recurring Charges**			**I-1**	**Salaries & Recurring Charges**		
a)	Non-Plan Grants	0.00	8957.00	a)	General Administration	234.65	1994.98
b)	Plan Grants	467.00	0.00	b)	Teaching	589.30	6759.06
2	Capital Grants	3607.00	0.00	c)	Research	162.05	583.05
3	SCP/TSP Grants (Revenue)	581.00	0.00	d)	Extension	43.00	46.91
4	SCP/TSP Grants (Capital)	393.00	0.00	2	Capital Expenditure	3607.00	0.00
5	State Adhoc Grants	0.00	0.00	3	Expenditure under SCP/TSP Grants (Revenue)	581.00	0.00
	TOTAL-A (I)	**5048.00**	**8957.00**	4	Expenditure under SCP/TSP Grants (Capital)	393.00	0.00
II	**GRANTS FROM OTHER AGENCIES**	0.00	0.00	5	State Adhoc Projects	42.00	0.00
III	**Government of India Grants**	0.00	0.00		**TOTAL-A (I)**	**5652.00**	**9384.00**
IV	**ICAR, New Delhi**			**II**	**Schemes Sponsored by other Agencies**	0.00	0.00
a)	Development	0.00	0.00	**III**	**Government of India Schemes**	0.00	0.00
b)	Co-ordinated Projects	0.00	0.00	**IV**	**ICAR, New Delhi**		
c)	MCM / RAWE / RGN / Fellowship / Internship Allowance	0.00	0.00	a)	Development	0.00	0.00
d)	Library Strengthening	0.00	0.00	b)	ICAR Co-ordinated Projects (75%)	0.00	0.00
e)	NAIP Projects	0.00	0.00	c)	ICAR Co-ordinated Projects (100%)	0.00	0.00
f)	Krishi Vigyan Kendra	0.00	0.00	d)	NAIP Projects	0.00	0.00
	TOTAL-A (II+III+IV)	**0.00**	**0.00**	e)	Krishi Vigyan Kendra	0.00	0.00
V	**INTERNAL RESOURCES**				**TOTAL-A (II+III+IV)**	**0.00**	**0.00**
a)	Income from Fees	0.00	261.80				
b)	Income from University Property	0.00	253.85				
c)	Other Misc. Income	0.00	884.35				
	TOTAL-A (V)	**0.00**	**1400.00**				
	TOTAL-A (I+II+III+IV+V)	**5048.00**	**10357.00**		**TOTAL-A (I+II+III+IV)**	**5652.00**	**9384.00**
B	**FOUNDATION FUNDS**	0.00	0.00	**B**	**FOUNDATION FUND**	0.00	0.00
C	**DEPT & SUSPENCE A/C.**	0.00	6860.00	**C**	**DEBT & SUSPENCE A/C.**	0.00	6860.00
	TOTAL (A+B+C)	**27075.93**	**17217.00**		**TOTAL (A+B+C)**	**5652.00**	**16244.00**
	Add: Opening Balance	-853.58	-420.96		**Add:** Closing Balance	-1457.58	552.04
	GRAND TOTAL	**4194.42**	**16796.04**		**GRAND TOTAL**	**4194.42**	**16796.04**

VI. GENERAL ADMINISTRATION

1) Teaching & Non-Teaching Recruitment & Promotion Particular information for the year-2016-17

#	*Cadre*	*Recruitment of Direct/ Backlog*	*Compensatory Appointment*	*Promotion of Teaching /Non-Teaching Staffs*
1	Teaching	No	No	No
2	Non-Teaching	04	03	No

2) **Superannuation**

List of Superannuated Employees of KVAFSU, Bidar between 01-04-2016 to 31-03-2017

#	*Employs Name Designation & Place*	*Empl. No.*	*Date of Birth*	*Date of Superannuation*	*Retirement dated*
TEACHING STAFF					
1	Dr. N.V. Jadhav Professor Veterinary College, Bidar	1055	09.06.1954	09.06.2016	30.06.2016
2	Dr. S. Benakappa Professor College of Fisheries Mangaluru	1036	13.08.1954	13.08.2016	31.08.2016
3	Dr. V.G. Bhata Professor College of Fisheries Mangaluru	1039	17.09.1954	17.09.2016	30.09.2016
4	Dr. K.M. Shankara Professor & Dean College of Fisheries Mangaluru	1100	01.10.1954	30.09.2016	30.09.2016
5	Dr. H.J. Ramachandra Professor & Head Dairy Science College Hebbal, Bengaluru	1092	03.11.1954	03.11.2016	30.11.2016
6	Shri. L. Mahalingayya Associate Professor Dairy Science College Hebbal, Bengaluru	1070	03.11.1954	03.11.2016	30.11.2016
7	Dr. E. Narayanappa Professor Dairy Science, College Hebbal, Bengaluru	1083	03.01.1955	13.01.2017	31.01.2017
8	Dr. Ravindra, D. Padalakar Professor Veterinary College, Bidar	1659	21.02.1955	21.02.2017	28.02.2017

9	Dr. S. Yatiraj Professor & Head (OSD) Veterinary College, Gadag	1031	15.03.1955	15.03.2017	31.03.2017
10	Shri. Ramesh, M. Prabhu Associate Professor College of Fisheries Mangaluru	1094	31.03.1955	31.03.2017	31.03.2017
NON-TEACHING STAFF					
1	Mr. Chikkahanumantayya Field Assistant Dairy Science College Hebbal, Bengaluru	1430	04.01.1957	04.01.2017	31.01.2017
2	Mr. M. Muralidhara Dy. Registrar KVAFSU, Bidar	1209	14.01.1957	14.01.1957	31.01.2017
3	Mr. Venkataram Sr. Sports Helper Dairy Science College Hebbal, Bengaluru	1462	14.03.1957	14.03.2017	31.03.2017
4	Mr. Veerabhadrayya Sr. Animal Attender Grade-I Veterinary College Hebbal, Bengaluru	1453	01.04.1957	01.04.2017	31.03.2017

VII. INFRASTRUCTURE DEVELOPMENT

Details of progress of works under taken by KVAFSU during the year 2016-17

#	Name of Work	Tender Amount in Lakhs
1	Construction of PG Hostel Building at KVAFSU, Bidar	200.00
2	Construction of staff quarters at KVAFSU, Bidar	80.00
3	Construction of Quarters for Hon'ble Vice-Chancellor at KVAFSU, Bidar	90.00
4	Construction of Compound wall at KVAFSU, Bidar	150.00
5	Construction of Indoor Stadium at KVAFSU, Bidar	75.00
6	Construction of Animal hold shed at 60 ftx40ft at Regional Office, Hebbal, Bengaluru	25.00
7	Construction of cross bred sheep shed Regional Office at Veterinary College, Hebbal, Bengaluru	59.00
8	Renovation to Ladies Hostel at Hebbal Campus, Bengaluru	15.61
9	Construction of Small Animal House at Veterinary College, Hassan	70.00
10	Construction of Mini Slaughter House at Veterinary College, Hassan	41.00
11	Construction of Goat and Sheep Sheds at Veterinary College, Hassan	40.50
12	Construction of Main College building at Dairy Science College, Mahagaon Cross, Kalburgi	450.00
13	Construction of Boys Hostel (1st Floor) at Dairy Science College, Mahagaon Cross, Kalburgi (Second Call)	125.00
14	Construction of Girls hostel at Dairy Science College, Mahagaon Cross, Kalburgi (Second Call)	177.00
15	Levelling of existing ground and construction of Embankment with approved gravel to create sports ground at Dairy Science College, Kalburgi	14.90
16	Construction of Second Floor over Main College at Dairy Science College Mahagaon Cross, Kalburgi	274.00
17	Construction of Cell for Director SC/ST at KVAFSU, Bidar	70.00
18	Construction of Girls Hostel at Veterinary College, Bidar	91.00
19	Construction of Boys Hostel at Veterinary College, Bidar	86.66
20	Construction of Animal shed, Cattle Shed building Sheep and Goat shed at Veterinary College, Gadag	70.00
21	Construction of Animal shed, Cattle Shed building Sheep and Goat shed at Veterinary College Athani	70.00
22	Construction of Administrative, Training and Library building at Animal Husbandry Polytechnic, Konehalli	95.00
23	Construction of Dining Hall with Modernization of Kitchen to Hostel Block at Animal Husbandry Polytechnic, Konehalli	62.00
24	Construction of Administrative Training and Library Building at Animal Husbandry Polytechnic, Shiggaon	95.00
25	Construction of Dining Hall with Modernization of Kitchen to Hostel Block at Animal Husbandry Polytechnic, Shiggaon	62.00
26	Construction of Main entrance gate at Veterinary College Gadag	42.00

27	Construction of Girls Hostel additional block & (GH) Animal Husbandry Polytechnic, Konehalli	35.00
28	Construction of Boys Hostel Additional Block at Animal Husbandry Polytechnic, Konehalli	35.00
29	Construction of Feed manufacturing unit at Animal Husbandry Polytechnic, Konehalli	24.00
30	Construction of Cattle shed at Animal Husbandry Polytechnic, Konehalli	10.00
31	Construction of Buffalo shed at Animal Husbandry Polytechnic, Konehalli	10.00
32	Construction of Piggery shed at Animal Husbandry Polytechnic, Konehalli	15.00
33	Construction of Girls Hostel at Animal Husbandry Polytechnic Shiggaon	35.00
34	Construction of Boys Hostel Additional Block at Animal Husbandry Polytechnic, Shiggaon	35.00
35	Construction of Compound wall at Animal Husbandry Polytechnic, Shiggaon	18.00
36	Construction of Feed manufacturing unit at Animal Husbandry Polytechnic, Shiggaon	10.00
37	Construction of Cattle shed at Animal Husbandry Polytechnic, Shiggaon	10.00
38	Construction of Buffalo shed at Animal Husbandry Polytechnic, Shiggaon	10.00
39	Repair of Existing building fish processing unit Technology wing at College of Fisheries, Mangaluru	35.70
40	Construction of Main Entrance gate at Veterinary College, Shivamogga	32.00
41	Providing Basket ball court at Veterinary College, Shivamogga	20.00