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KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY

Nandinagar, BIDAR - 585 226, Karnataka

13th
Annual Report
2017-18

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Preface

It gives me immense pleasure to place the Thirteenth Annual Report of Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar for the year 2017-18. The University with its basic mandate of being "Rural Oriented and Farmer Friendly" is striving hard to buildup the human resources and dissemination of technologies developed through research in the field of Veterinary, Dairy and Fishery Sciences across the state.

To impart education, the University has eight constituent colleges of which five are Veterinary Colleges located Bengaluru, Bidar, Shivamogga, Hassan and Gadag; two Dairy Science Colleges at Bengaluru and Kalaburagi and College of Fisheries located at Mangaluru. The University offers Undergraduate, Postgraduate and Doctoral degree programmes. In addition to regular teaching programmes the University also conducts short term refresher training programmes in the form of continued education for the field professionals of the line Departments like Animal Husbandry and Veterinary Services, Fisheries and Karnataka Milk Federation. During the year, a total of 113 students have completed their Master's degree and 28 have completed their Doctoral degree in different disciplines. A total of 778 degrees were awarded, that included 536 Under Graduate, 184 Masters and 58 Doctoral Degrees in the Veterinary, Dairy and Fisheries Sciences. A total of 140 Gold medals were awarded for the candidates with high academic performance in Under Graduate, Post Graduate and Doctoral Degrees during the 9th Convocation of the University. Apart from academics, the students of the University have also excelled in National Level Sports, Youth Festivals and NSS activities.

There are several extramural funded research projects under operation in different disciplines, the findings of which were utilized for developing the technologies that can be transferred to the field for the benefit of farming community.

The faculty and scientists of the Livestock Research and Information Centers, Canine Research and Information Centers, Fisheries Research and Information Centers, Krishi Vigyan Kendra and Extension Education Centers located at different places in the state are also engaged in extension programmes and have conducted a good numbers of training programmes, workshops, seminars, animal health camps, village adoption, radio talks, TV programmes, field days, demonstrations, field visits, front line demonstrations, on farm trials, farmers-scientists interaction sessions across the state for the betterment of the farming community.

I would like to thank the Government of India, Government of Karnataka, Indian Council of Agricultural Research-New Delhi, DBT/DST/ RKVY and other funding agencies for assisting in overall integrated development of the University and complement members of the Board of Management, Officers of the University, Faculty members, students and staff of the University and all those who have contributed in building the University to the present status.

Place : **Bidar**

Sd/-

(H.D. Narayanaswamy)
Vice-Chancellor

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Editorial

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar completed fourteen year and it gives me immense pleasure to bring out the 13th Annual Report for the period 2017-18. At present University having 8 constituent colleges out of which five Veterinary Colleges located at Bengaluru, Bidar, Shivamogga, Hassan and Gadag, two Dairy Science Colleges, one at Bengaluru and the other at Mahagaon-Kalaburagi and one College of Fisheries at Mangaluru, imparting higher education in Veterinary and Animal Husbandry, Dairy and Fisheries Sciences. Institute of Animal Health and Veterinary Biologicals located at Hebbal-Bengaluru, rendering its services in livestock disease diagnosis and production of vaccines for various livestock diseases. Livestock Research and Information Centers, Canine Research and Information Center and Fisheries Research and Information Centers located at different districts of the state have been carrying out research and extension education activities for the benefit of farming community in the state. Five Animal Husbandry Polytechnics are located at Konehally-Tumkuru, Kunnum-Haveri, Koravangala-Hassan, Dornalli-Yadgiri and Bargi-Chamarajanagara for the 10th passed rural students of the state.

A good number of research projects have been sanctioned to the university during the period and sufficient research work is being carried out in the new as well as ongoing research projects. Research publications brought out by the faculty are included in the report.

Extension Education is a back bone of the University, which cater to the needs of farming community in the state. Four Extension Education Centers, one each at Bengaluru, Bidar, Shivamogga and Hassan are functioning to strengthen the extension education activities for the benefit of farming community. Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru carrying out on farm trials, front line demonstrations and striving for field problems of farmers. The University teachers, scientists and extension faculty have carried out good number of training programmes, demonstrations, farmers-scientists interaction sessions, workshops, seminars, animal health camps, field days and other outreach programmes for the benefit of farming community in all the campuses of the University. As mentioned in the University logo "Rural Oriented & Farmer Friendly", good numbers of programmes have been carried out for farmers, farm women and entrepreneurs.

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

Place : **Bidar**

Sd/-
(N.A. Patil)
Chief Editor & Director of Extension

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RURAL ORIENTED & FARMER FRIENDLY

Mandate of the University

The prime objective and mandate of the University is 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.



RURAL ORIENTED & FARMER FRIENDLY

Governance

BOARD OF MANAGEMENT OF THE UNIVERSITY

Chairman : Prof. R.V. Prasad
Prof. H.D. Narayanaswamy

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 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
Mr. K.C. Shankregowda
Mr. Ritesh Salian
Mr. K.S. Ashok Kumar
Dr. S.G. Konapur
Mr. Nagabhushan Kamthane
Mr. Mallikarjun Biradar
Dr. Parimal Roy
Dr. P.I. Ganesan
Dr. T.S. Chandrashekhar Rao
Dr. (Mrs.) R. Kalpana Shastri



RURAL ORIENTED & FARMER FRIENDLY

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) Veterinary College, Gadag, established in 2017
- 6) Dairy Science College, Hebbal, Bengaluru, established in 1980
- 7) Dairy Science College, Kalaburagi, established in 2008
- 8) Fisheries College, Mangaluru, established in 1969
- 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) Animal Husbandry Polytechnic, Koravangala, Hassan District
- 4) Animal Husbandry Polytechnic, Bargi, Gundlupet Taluk, Chamarajanagara District
- 5) Animal Husbandry Polytechnic, Dornalli, Shahapur Taluk, Yadgir District

3. Research Institute

- 1) Institute of Animal Health and Veterinary Biologicals (IAH&VB), Hebbal, Bengaluru
- 2) Institute of Wild Life Veterinary Research, (IWVR) Kudige, Dist. Coorg
- 3) Livestock Research and Information Center, (Deoni), Hallikhed, Bidar
- 4) Livestock Research and Information Center (Amruth Mahal and Hallikar), Konehalli, Tiptur
- 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, Hebbal, Bengaluru
- 9) Fisheries Research and Information Center (Inland), Hesaraghatta
- 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 Centre, Bidar



ANIMAL ORIENTED & FARMER FRIENDLY
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OFFICERS OF THE UNIVERSITY DURING THE PERIOD (2017- 2018)

1	Vice-Chancellor, KVAFSU, Bidar	Dr. R.V. Prasad Dr. H.D. Narayanaswamy
2	Registrar, KVAFSU, Bidar	Dr. H. Shivananda Murthy
3	Director of Extension, KVAFSU, Bidar	Dr. S.M. Shivaprakash Dr. U.S. Biradar
4	Director of Research, KVAFSU, Bidar	Dr. S.M. Usturge Dr. B.V. Shivaprakash
5	Director of Instruction (PGS), KVAFSU, Bidar	Dr. Nadeem Fairoz Dr. S.M. Usturge
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 Dr. N.A. Patil
10	Dean, Veterinary College, Bengaluru	Dr. H.N. Narasimhamurthy Dr. Placid, E. D'Souza
11	Dean, Veterinary College, Shivamogga	Dr. K.C. Veeranna
12	Dean, Veterinary College, Hassan	Dr. M.S. Vasantha Dr. L. Ranganath
13	Dean, Veterinary College, Gadag	Dr. V. Girish Kumar Dr. H.D. Narayanaswamy Dr. R. Nagaraj
14	Dean, Dairy Science College, Bengaluru	Dr. H.M. Jayaprakash
15	Dean, Dairy Science College, Kalaburagi	Dr. H. Manjunatha
16	Dean, College of Fisheries, Mangaluru	Dr. M.N. Venugopal
17	Director, IAH and VB, Hebbal, Bengaluru	Dr. S.M. Byregowda
18	Director, IWVR, Doddaluvara, Kodagu	Dr. Ganesh Udupa Dr. A. Muralidhara
19	Head of Division-Pre and Para Clinical Sciences	Dr. Placid, E. D'Souza
20	Head of Division-Clinical Sciences	Dr. M. Narayana Bhat
21	Head of Division-Animal and Poultry Sciences	Dr. M.R. Jayashankar Dr. C.S. Nagaraj
22	Head of Division-Fisheries Science	Dr. Gangadhar Gowda
23	Head of Division-Dairy Science	Dr. H.M. Jayaprakash Dr. D.B. Puranik
24	Comptroller, KVAFSU, Bidar	Mr. Mallikarjun Ligade Mr. Suresh, K.L.
25	Estate Officer, KVAFSU, Bidar	Mr. M.K. Satish



RURAL ORIENTED & FARMER FRIENDLY

EXECUTIVE SUMMARY

'Animal wealth is Nation's wealth'. In order to realize this and to accomplish productivity in animal husbandry, dairying, poultry and fisheries, Government of Karnataka embarked on starting the state's first Veterinary, Animal and Fisheries Sciences University at Bidar in the year 2005. With its motto of 'Rural Oriented and Farmer Friendly', the University has initiated several measures to help farmers to improve their livelihood security through livestock activities.

EDUCATION

Education is the prime concern of the University. The teaching activities are being carried out in three major disciplines at six campuses through eight colleges under the jurisdiction of this University. Undergraduate degree programmes in Veterinary and Animal Husbandry are being offered at Bidar, Bengaluru, Shivamogga, Hassan and Gadag, while, Dairy Science and Technology at Bengaluru and Kalaburagi and similarly, Fisheries Science at Mangaluru. In addition to these, the Government of Karnataka has sanctioned two more Veterinary Colleges at Athani and Puttur, which are at different stages of development. Further, five Animal Husbandry Polytechnics are functioned at Konehalli of Tumkuru district, Kunnur of Haveri district, Koravangala of Hassan district, Bargi of Chamarajanagar district and Dornalli of Yadgir district.

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. In Veterinary and Animal Sciences 75 obtained Masters degree and 25 received Doctoral degrees. In Dairy Science, 31 have taken Master's degree. In Fisheries, 13 have taken Masters degree and 05 awarded Doctoral degrees.

Admission under various degree programmes to KVAFSU was undertaken during 2017-18 and the intake was 431 students for UG programmes. Among 431 under graduate students, admitted to various degree programmes 332 were for BVSc&AH degree at Bengaluru, Bidar, Shivamogga, Hassan and Gadag campuses and 60 for B.Tech (Dairy). Degree at Bengaluru and Kalaburagi and 39 for Bachelor in Fisheries Science Degree at Mangaluru. A total 242 students were admitted for Animal Husbandry Polytechnics at Konehalli, Kunnur, Bargi, Koravangala and Dornally respectively.

During the 9th convocation of the University, a total of 778 degrees were awarded, that included 536 Under Graduates, 184 Masters and 58 Doctoral Degrees in the Veterinary, Dairy and Fisheries Sciences. A total of 140 Gold medals were awarded for the candidates with high academic performance in Under Graduate, Post Graduate and Doctoral Degrees.

A good number of graduates of this University qualified in ICAR Junior Research Fellowship and secured PG admissions in many prestigious institutes like IVRI, CIFE, NDRI 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 has been completed 54 Research Projects amounting to Rs. 839.67 lakhs with the funding support from State Government, GOI, Dept. of Biotechnology, ICAR, private institutions and



RURAL ORIENTED & FARMER FRIENDLY

National and International organizations during 2017-18. Besides, 133 Ongoing Projects amounting to Rs.16910.41 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 of the University have published 886 Research Papers in Journals and Conference / Symposia / Seminar / Workshop of National and International repute. 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 within the University and to provide opportunities for scientists and students of the University, the University has been making efforts to collaborate with National and International organizations. In this direction, the University has signed on MoU with International organization and three MoUs with National organizations. It is hoped that the collaborative works will be of immense value to the society.

EXTENSION

The University has established Extension Education Centers (EECs) at Bidar, Bengaluru, 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 interaction, awareness programmes, treatment of medical, surgical and reproductive problems at Veterinary Colleges, Krishi Mela, Farmers Meet, Village adoption, Publication of folders, Bulletins and Books on Package of practices in local language for the benefit of farming community and News Letters and Annual Reports of the University. 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 111 Radio/TV programmes were given of which 55 were Radio talks and 56 were TV programmes. A total of 70 Animal Health Camps were conducted and 17708 animals were treated in the camp. A total of 321 demonstrations were conducted. A total of 1,48,361 services were provided to the farmers and diagnostic services provided were 44,374 and 11,679 consultancy / advisory services were provided. A total of 234 Training Programmes / Workshops / Conference / Seminars were conducted in 2017-18 and a total of 665 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Resource Scientists and 343 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Trainee Scientists.

The most significant part of the University is the health care being extended the ailing livestock and poultry of poor farmers by our doctors. Disease control measures especially against infections diseases were communicated to the farmers through animal health camps and leaflets.



RURAL ORIENTED & FARMER FRIENDLY
KARNAKAVALI VETERNINARY AGRICULTURE & FISHERIES COLLEGE
BIDAR

IMPORTANT MEETINGS HELD BY KVAFSU, BIDAR DURING 2017-18

#	<i>Meetings</i>	<i>Date</i>	<i>Place</i>
Meetings of Board of Management			
1	79 th Meeting of Board of Management	06.04.2017	Bidar
2	80 th Meeting of Board of Management	24.07.2017	Bengaluru
3	81 st Meeting of Board of Management	13.10.2017	Bidar
4	Special Meeting of Board of Management	09.12.2017	Bengaluru
5	81 st Adjourned Meeting of Board of Management	14.03.2018	Bidar
Academic Council Meetings			
1	28 th Meeting of Academic Council	05.04.2017	Bidar
Extension Education Council Meetings			
1	12 th Meeting of Extension Education Council	07.06.2017	Bidar
Extension and Publicity Sub-Committee Meetings			
1	10 th Meeting of Extension & Publicity Sub-Committee	08.11.2017	Bengaluru
2	11 th Meeting of Extension & Publicity Sub-Committee	02.01.2018	Bidar
Research Council Meetings			
1	12 th Meeting of Research Council	07.06.2017	Bidar
Finance Committee Meetings			
1	38 th Meeting of Finance Committee	12.10.2017	Bidar





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Important Meetings / Events attended by Vice-Chancellor, KVAFSU, Bidar during 2017-18

#	Date	Meeting / Event attended
1	13.09.2017	Dr. R. V. Prasad, Acting Vice-Chancellor, Visited Veterinary Council of India, New Delhi along with Dean Veterinary College, Gadag in connection with recognition of Veterinary College, Gadag.
2	17.11.2017 to 18.11.2017	Dr. R. V. Prasad, Acting Vice-Chancellor, attended 42 nd Vice-Chancellor Convention at Maharana Pratap University of Agricultural Technology, Udaipur, Rajasthan.
3	14.11.2017	Dr. R.V. Prasad, Acting Vice-Chancellor, Inaugurated 33 rd Foundation Day program of Veterinary College, Nandinagar, Bidar along with Dr. Y. Haribabu, Vice-Chancellor, Sri Venkateshwara Veterinary University, Tirupati (AP).
4	23.02.2018	Dr. H.D. Narayana Swamy, taken the charge of fourth Vice-Chancellor of the Karnataka Veterinary Animal & Fisheries Sciences University, Bidar from Dr. R. V. Prasad, Acting Vice-Chancellor of the University.
5	08.03.2018	Dr. H.D. Narayana Swamy, Vice-Chancellor received “First Position of Post Graduate Scholarship Award” on behalf of KVAFSU, Bidar from Indian Council of Agriculture Research, New Delhi.
7	14.03.2018	Dr. H.D. Narayana Swamy, Vice-Chancellor chaired the 81 st Board of Management Meeting at University Headquarters, KVAFSU, Bidar.



RURAL ORIENTED & FARMER FRIENDLY

NINTH CONVOCATION OF KVAFSU, BIDAR

Ninth Convocation of the University was held on 7th April, 2017 at KVAFSU, Nandinagar Campus, Bidar. Dr. R.V. Prasad, Acting Vice-Chancellor, KVAFSU, Bidar in his welcome address, presented the brief report of the activities carried out by the University in Teaching, Research and Extension during the past two years. Dr. Narendra Singh Rathore, Deputy Director General (Education), ICAR, New Delhi delivered the Convocation address.

During the convocation, in all 778 degrees were awarded, that included 536 Under Graduates, 184 Masters and 58 Doctoral Degrees in the Veterinary, Dairy and Fisheries Sciences. 140 Gold medals were awarded to the candidates with high academic performance in Under Graduate, Post Graduate and Doctoral Degrees.

INAUGURATION OF NEW BUILDING OF ANIMAL HUSBANDRY POLYTECHNIC AT KUNNUR-HAVERI

Shri. Rudrappa Manappa Lamani, Hon'ble Minister of Textiles and District In-charge Minister, Haveri District, Govt. of Karnataka inaugurated new buildings of main block and hostel block on 22nd March, 2018 by the Public Works and Inland Water Transport Department, Shiggaon-Haveri in collaboration with KVAFSU, Bidar. The Programme was presided over by Shri. Basavaraj Bommai, Hon'ble Member of Legislative Assembly, Shiggaon-Savanur constituency. The occasion was graced by Prof. H.D. Narayanaswamy, Vice-Chancellor, KVAFSU, Bidar, Members of Board of Management, KVAFSU, Bidar – Dr. Venkatareddy, Shri Iresh Anchatageri and Smt. Lumbini Gautam. Dr. U.S. Biradar, Director of Extension, Dr. Dilipkumar, D., Associate Director of Extension (HQ) and Er. Ramappa Korwar, Executive Engineer, KVAFSU, Bidar were present on the occasion. Presidents and Members of Taluk Panchayat Shiggaon and Gram Panchayat, Kunnur, Member of Zilla Panchayat, representatives and local leaders also graced the occasion. Dr. Shivakumar K. Radde, Principal welcomed the guests. Dr. Shashidhar Ballari, Assistant Professor proposed vote of thanks. Assistant Executive Engineer Er. Nagappa and officials of PWD Shiggaon were also present. In his address, Hon'ble Minister Shri Rudrappa Manappa Lamani appreciated the development of the polytechnic to this stage and wished it a bright future ahead. Mr. Basavaraj Bommai narrated the establishment of the polytechnic. Vice-Chancellor appreciated the growth of the polytechnic and declared that a new Veterinary Diagnostic Laboratory would come up at the polytechnic within a year.



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES COLLEGES UNIVERSITY

I. TEACHING

1) Teaching Institutions

#	<i>Teaching Institute with Location</i>	<i>Year of Establishment</i>	<i>Name of the Dean / Director / Principal</i>	<i>Degree Programmes Offered</i>
1	Veterinary College, Bengaluru	1958	Dr. H.N. Narasimhamurthy Dr. Placid, E. D'Souza	B.V.Sc.&A.H. M.V.Sc. Ph.D.
2	Veterinary College, Bidar	1984	Dr. B.V. Shivaprakash Dr. N.A. Patil	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. M.S. Vasanth Dr. L. Ranganath	B.V.Sc.&A.H.
5	Veterinary College, Gadag	2017	Dr. Girish Kumar, V. Dr. H.D. Narayanaswamy Dr. Nagaraja, R.	B.V.Sc.&A.H.
6	Dairy Science College, Bengaluru	1980	Dr. H.M. Jayaprakasha	B.Tech. (D.Tech) M.Tech. (Dairy Science) Ph.D. (Dairy Science) MBA (Food & Dairy Business)
7	Dairy Science College, Kalaburagi	2008	Dr. D.B. Puranik Dr. H.Manjunatha	B.Tech. (D.Tech)
8	College of Fisheries, Mangaluru	1969	Dr. M.N. Venugopal	B.F.Sc. M.F.Sc. Ph.D.
9	Institute of Wildlife and Veterinary Research, Kodagu	2007	Dr. Ganesh Udupa Dr. A. Muralidhara	M.V.Sc. (Wildlife) (Presently running at Bengaluru)
10	Animal Husbadry Polytechnic, Konehalli-Tumakuru	2011	Dr. ShivaKumar, R.	Animal Husbandry Diploma
11	Animal Husbadry Polytechnic, Shiggaon-Haveri	2012	Dr. ShivaKumar, K. Radder	Animal Husbandry Diploma
12	Animal Husbadry Polytechnic, Koravangala-Hassan	2017	Dr. G.S. Naveen Kumar	Animal Husbandry Diploma
13	Animal Husbadry Polytechnic, Bargi-Chamarajanagar	2017	Dr. ShivaKumar, M.	Animal Husbandry Diploma
14	Animal Husbadry Polytechnic, Dornalli-Yadgir	2017	Dr. Shesharao Rathod	Animal Husbandry Diploma



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

2) Number of Students admitted/on roll to Under Graduate Degree Programme

Sl. No.	Degree Programme	Year					No. Passed out	College / Institute
		I	II	III	IV	V		
1	B.V.Sc.&A.H.	72	67	76	41	51	82	Veterinary College, Bengaluru
2	B.V.Sc.&A.H.	59	49	68	39	50	55	Veterinary College, Bidar
3	B.V.Sc.&A.H.	82	64	57	27	50	46	Veterinary College, Shivamogga
4	B.V.Sc.&A.H.	71	69	76	37	38	38	Veterinary College, Hassan
5	B.V.Sc.&A.H.	48	-	-	-	-	-	Veterinary College, Gadag
6	B.Tech. (D.Tech)	37	38	37	37	NA	39	Dairy Science College, Bengaluru
7	B.Tech. (D.Tech)	23	23	19	21	NA	21	Dairy Science College, Kalburagi
8	B.F.Sc.	39	41	33	31	NA	33	College of Fisheries, Mangaluru
9	Animal Husbandry Diploma	51	45	NA	NA	NA	46	Animal Husbandry Polytechnic, Konehalli- Tumakuru
10	Animal Husbandry Diploma	50	35	NA	NA	NA	45	Animal Husbandry Polytechnic, Kunnur-Haveri
11	Animal Husbandry Diploma	50	-	NA	NA	NA	-	Animal Husbandry Polytechnic, Koravangala-Hassan
12	Animal Husbandry Diploma	41	-	NA	NA	NA	-	Animal Husbandry Polytechnic, Bargi- Chamarajanagar
13	Animal Husbandry Diploma	50	-	NA	NA	NA	-	Animal Husbandry Polytechnic, Dornalli-Yadgir

*NA:- Not Applicable





RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

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

#	Department	Masters Degree			Ph.D.			
		On roll		Completed	On roll		Completed	
		I	II	2017-18	I	II	III	2017-18
VETERINARY COLLEGE, BENGALURU								
1	Veterinary Anatomy and Histology	-	1	-	1	2	3	2
2	Animal Genetics and Breeding	4	2	2	1	1	2	-
3	Veterinary Animal Husbandry Extension	3	3	3	-	-	-	-
4	Animal Nutrition	2	3	2	1	-	1	1
5	Veterinary Biochemistry	-	2	1	-	1	2	-
6	Veterinary Gynecology and Obstetrics	7	4	8	2	3	1	5
7	Livestock Production and Management	4	3	3	-	2	2	-
8	Livestock Products and Technology	4	1	3	-	-	-	-
9	Veterinary Medicine	8	6	5	3	4	1	3
10	Veterinary Microbiology	1	2	4	2	2	3	3
11	Veterinary Parasitology	-	2	2	2	4	1	-
12	Veterinary Pathology	3	5	5	-	5	2	3
13	Veterinary Pharmacology and Toxicology	1	5	6	1	1	-	1
14	Veterinary Physiology	-	1	1	1	1	3	1
15	Poultry Science	4	3	3	1	1	3	2
16	Veterinary Surgery and Radiology	9	8	4	3	2	1	-
17	Veterinary Wildlife	1	3	4	-	-	-	-
Total (A)		51	54	56	18	29	25	21

VETERINARY COLLEGE, BIDAR

1	Livestock Production and Management	02	02	01	-	-	-	-
2	Veterinary Anatomy and Histology	-	01	01	-	-	-	-
3	Veterinary Gynaecology and Obstetrics	04	07	04	-	01	01	-
4	Veterinary Medicine	03	04	05	02			-
5	Veterinary Microbiology	-	01	01	01	01	02	-
6	Veterinary Physiology	01	02	01	-	-	-	-
7	Veterinary Surgery and Radiology	04	04	02	01	02	01	03



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8	Animal Genetics and Breeding	-	-	01	-	-	-	-
9	Animal Nutrition	-	-	-	-	-	-	01
	Total (B)	14	21	16	04	04	04	04

VETERINARY COLLEGE, SHIVAMOGGA

1	Veterinary Pharmacology & Toxicology	02	03	01	-	-	-	-
2	Animal Nutrition	02	03	-	-	-	-	-
3	Veterinary Public Health and Epidemiology	01	03	01	-	-	-	-
4	Veterinary & Animal Husbandry Extension	03	03	01	-	-	-	-
5	Veterinary Biochemistry	01	-	-	-	-	-	-
6	Veterinary Microbiology	01	-	-	-	-	-	-
7	Veterinary Parasitology	02	-	-	-	-	-	-
8	Veterinary Pathology	02	-	-	-	-	-	-
	Total (C)	14	12	03	-	-	-	-

VETERINARY COLLEGE, HASSAN

1	Veterinary Surgery and Radiology	03	-	-	-	-	-	-
2	Veterinary Pathology	02	-	-	-	-	-	-
3	Animal Nutrition	04	-	-	-	-	-	-
4	Livestock PM	02	-	-	-	-	-	-
5	VPT	02	-	-	-	-	-	-
	Total (D)	13	-	-	-	-	-	-

DAIRY SCIENCE COLLEGE, BENGALURU

1	Dairy Technology	08	05	08	02	01	02	-
2	Dairy Chemistry	02	03	05	-	-	01	-
3	Dairy Microbiology	01	03	02	02	01	-	-
4	MBA in Dairy Technology	25	09	16	-	-	-	-
	Total (E)	36	20	31	04	02	03	-

COLLEGE OF FISHERIES, MANGALURU

1	Aquaculture	7	8	5	1	4	2	0
2	Fisheries Microbiology	2	4	1	2	1	0	1
3	Fisheries Resources and Management	5	7	1	0	4	2	1
4	Aquatic Environment Management	5	6	3	0	1	1	1
5	Fish Processing Technology	4	5	3	2	1	3	2
6	Fisheries Engineering Technology	0	1	0	0	0	0	0
	Total (F)	23	31	13	5	11	8	5
	Grand Total	151	138	119	31	46	40	30



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

4) Academic Excellence

(i) Scholarships / Fellowships received

UNDERGRADUATE **ANIMAL AND VETERINARY SCIENCES**

#	<i>Scholarship</i>	<i>Year</i>					<i>Total</i>
		<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>	<i>V</i>	
General Scholarship							
1	Veterinary College, Bengaluru	6	6	6	3	3	24
2	Veterinary College, Bidar	0	0	0	0	0	-
3	Veterinary College, Shivamogga	1	0	3	2	6	12
4	Veterinary College, Hassan	8	7	8	4	4	31
5	Veterinary College, Gadag	5	0	0	0	0	05
Merit Scholarship							
1	Veterinary College, Bengaluru	2	2	2	2	2	10
2	Veterinary College, Bidar	2	0	2	2	0	06
3	Veterinary College, Shivamogga	2	2	2	2	2	10
4	Veterinary College, Hassan	2	2	2	2	2	10
5	Veterinary College, Gadag	2	0	0	0	0	02
National Talent Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	5	2	5	0	0	12
3	Veterinary College, Shivamogga	04	02	04	-	-	10
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
Student Aid Fund							
1	Veterinary College, Bengaluru	6	7	3	0	0	16
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
Fee Concession from BCM							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	23	26	18	08	18	93
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	18	0	0	0	0	18
Food and Accommodation (BCM) for OBC Students							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	11	03	13	02	01	30
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES COLLEGES UNIVERSITY

Post Metric (BCM) for OBC Students						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	11	21	05	05	17
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
Post Metric Scholarship (PMS) for ST Students Karnataka						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	03	01	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
Post Metric Scholarship for Students with Disabilities						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	01	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
e-Pass Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	26	24	24	14	19
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
SC/ST Govt. of India Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	7	7	10	7	6
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
University Freeship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	18	-	-	-	-
Vidyashree Scholarship- BCWD (Fee concession)						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	16	-	-	-	-



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

Social Welfare Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	5	-	-	-	05
Handicaps Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	1	2	-	03
5	Veterinary College, Gadag	-	-	-	-	-
SC Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	07	03	04	02	16
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
Sitharam Jindal Foundation Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	2	-	02
5	Veterinary College, Gadag	-	-	-	-	-
Merit-cum-Means Scholarship						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	6	6	2	15
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
Metric cum Means Scholarship for Professional & Technical Courses						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	04	03	02	01	12
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-
Central Sector Scheme of Scholarships for College and Universities Students						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	16	01	07	-	24
4	Veterinary College, Hassan	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-





RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE & FISHERIES COLLEGES UNIVERSITY

PrEme Minister's Scholarship Scheme for Central Armed Police Forces and Assam Rifles							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	01	-	-	01
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
Students READY Fellowship for Internship Students							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	50	50
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
BCM Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	08	15	12	04	11	50
5	Veterinary College, Gadag	-	-	-	-	-	-
GoI Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	04	08	05	12	02	31
5	Veterinary College, Gadag	-	-	-	-	-	-
Total		219	151	150	74	146	740

DAIRY SCIENCE

#	<i>Scholarship</i>	<i>Year</i>				<i>Total</i>
		<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>	
General Scholarship						
1	Dairy Science College, Bengaluru	5	5	5	5	20
2	Dairy Science College, Kalaburagi	2	2	2	1	7
Merit Scholarship						
1	Dairy Science College, Bengaluru	2	2	2	2	8
2	Dairy Science College, Kalaburagi	2	2	2	2	8
Student Aid Fund						
1	Dairy Science College, Bengaluru	-	-	3	-	3
2	Dairy Science College, Kalaburagi	-	-	-	-	-
Department of Social Welfare, GoK						
1	Dairy Science College, Bengaluru	-	-	-	-	-
2	Dairy Science College, Kalaburagi	3	2	3	6	14
Department of Backward Classes Welfare, GoK						
1	Dairy Science College, Bengaluru	-	-	-	-	-
2	Dairy Science College, Kalaburagi	16	15	11	10	52
Total		30	28	28	26	112



RURAL ORIENTED & FARMER FRIENDLY
COLLEGE OF FISHERIES MANGALURU

FISHERY SCIENCE (COLLEGE OF FISHERIES, MANGALURU)

#	<i>Scholarship / Fellowship</i>	<i>B.F.Sc.</i>				<i>Total</i>
		<i>I</i>	<i>II</i>	<i>III</i>	<i>IV</i>	
1	General Scholarship	-	-	-	-	-
2	Merit Scholarship	2	-	2	2	6
3	BCM	15	16	14	12	57
4	NTS-ICAR	-	1	-	-	1
5	MCM-ICAR	2	-	-	-	2
6	EBL - GOI	7	8	5	6	26
7	Internship - ICAR	-	-	-	31	31
8	Implant Training	-	-	-	31	31
Total		26	25	21	82	154

ABSTRACT OF UNDERGRADUATE SCHOLARSHIP

#	<i>Scholarship</i>	<i>VCH</i>	<i>VCB</i>	<i>VCS</i>	<i>HVC</i>	<i>VCG</i>	<i>DSCH</i>	<i>DSCK</i>	<i>FCM</i>	<i>Total</i>
1	General Scholarship	24	-	12	31	05	20	7	-	99
2	Merit Scholarship	10	06	10	10	02	8	8	6	60
3	National Talent Scholarship	-	12	10	-	-				22
4	Student Aid Fund	16	-	-	-	-	3			19
5	Fee Concession from BCM	-	-	93	-	18				111
6	Food and Accommodation (BCM) for OBC Students	-	-	30	-	-				30
7	Post Metric (BCM) for OBC Students	-	-	59	-	-	-	-	-	59
8	Post Metric Scholarship (PMS) for ST Students Karnataka	-	-	4	-	-	-	-	-	4
9	Post Metric Scholarship for Students with Disabilities	-	-	1	-	-	-	-	-	1
10	e-Pass Scholarship	-	107	-	-	-	-	-	-	107



RURAL ORIENTED & FARMER FRIENDLY
KALYANI VITTHAN AGRICULTURE & FISHERIES
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11	SC/ST Govt. of India Scholarship	-	37	-	-	-	-	-	-	-	37
12	University Freeship	-	-	-	-	18	-	-	-	-	18
13	VidyaShree Scholarship-BC WD (Fee concession)	-	-	-	-	16	-	-	-	-	16
14	Social Welfare Scholarship	-	-	-	-	5	-	14	-	-	19
15	Handicaps Scholarship	-	-	-	3		-	-	-	-	3
16	SC Scholarship	-	-	16	-	-	-	-	-	-	16
17	Sitharam Jindal Foundation Scholarship	-	-	-	2	-	-	-	-	-	2
18	Merit-cum-Means Scholarship	-	15	-	-	-	-	-	-	-	15
19	Metric cum Means Scholarship for Professional & Technical Courses	-	-	12	-	-	-	-	-	-	12
20	Central Sector Scheme of Scholarships for College and Universities Students	-	-	24	-	-	-	-	-	-	24
21	PrEme Minister's Scholarship Scheme for Central Armed Police Forces and Assam Rifles	-	-	1	-	-	-	-	-	-	1
22	Students READY Fellowship for Internship Students	-	-	50	-	-	-	-	-	-	50



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

23	BCM Scholarship	-	-	-	50	-	-	-	57	107
24	GoI Scholarship	-	-	-	31	-	-	-	-	31
25	Department of Backward Classes Welfare, GoK	-	-	-	-	-	-	52	-	52
26	NTS-ICAR	-	-	-	-	-	-	-	1	1
27	MCM-ICAR	-	-	-	-	-	-	-	2	2
28	EBL – GOI	-	-	-	-	-	-	-	26	26
29	Internship - ICAR	-	-	-	-	-	-	-	31	31
30	Implant Training	-	-	-	-	-	-	-	31	31
Total		50	177	322	127	64	31	81	154	1006





RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

POSTGRADUATE ANIMAL AND VETERINARY SCIENCES

#	Scholarship	MVSc.		Ph.D			Total
		I	II	I	II	III	
Merit Scholarship							
1	Veterinary College, Bengaluru	1	3	-	-	-	4
2	Veterinary College, Bidar	2	5	-	-	-	7
3	Veterinary College, Shivamogga	5	4	-	-	-	9
4	Veterinary College, Hassan	5	-	-	-	-	5
Student Aid Fund							
1	Veterinary College, Bengaluru	12	-	-	-	-	12
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
URMS Scholarship							
1	Veterinary College, Bengaluru	11	13	4	2	-	30
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
Government of India Scholarship							
1	Veterinary College, Bengaluru	-	2	-	-	-	2
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
National Talent Scholarship							
1	Veterinary College, Bengaluru	-	1	-	-	-	1
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
e-Pass Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	6	-	-	-	6
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
SC/ST Govt. of India Scholarship							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	2	1	-	-	-	3
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
Fee Concession from BCM							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	5	-	-	-	5
4	Veterinary College, Hassan	-	-	-	-	-	-



RURAL ORIENTED & FARMER FRIENDLY

Post Metric (BCM) for OBC Students						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	5	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
Post Metric Scholarship Schemes for Minorities						
1	Veterinary College, Bengaluru	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	1	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
Graduate Assistantship						
1	Veterinary College, Bengaluru	-	1	1	-	2
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
Research Assistantship						
1	Veterinary College, Bengaluru	-	1	-	-	1
2	Veterinary College, Bidar	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-
Total		38	48	5	2	2
Total						95

DAIRY SCIENCE

#	Scholarship	M.Tech.		Ph.D			Total
		I	II	I	II	III	
Dairy Science College, Bengaluru							
1	Merit Scholarship	2	3	1	1	-	7
2	Student Aid Fund	-	2	-	-	-	2
Total		2	5	1	1	-	9

FISHERY SCIENCE

#	Scholarship / Fellowship	M.F.Sc.		Ph.D.			Total
		I	II	I	II	III	
1	Merit Scholarship	4	2	-	1	2	9
2	Student Aid Fund	1	-	-	-	-	1
3	EBL - GOI	1	4	-	1	1	7
4	BCM	-	6	-	-	-	6
5	ICAR-JRF	-	1	-	-	-	1
6	Inspire Fellowship	-	-	-	-	-	-
7	ICAR - Indo-African Fellowship	1	-	-	-	-	1
8	ICAR – NTS	5	3	-	-	-	8
9	Graduate Assitanship	-	4		3	3	10
Total		12	20	0	5	6	43





RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

Abstract of Postgraduate (MVSc & Ph.D) Scholarship

#	Scholarship	VCH	VCB	VCS	HVC	DSCH	FCM	Total
1	Merit Scholarship	4	7	9	5	7	9	41
2	Student Aid Fund	12	-	-	-	2	1	15
3	URMS Scholarship	30	-	-	-	-	-	30
4	Government of India Scholarship	2	-	-	-	-	-	2
5	National Talent Scholarship	1	-	-	-	-	8	9
6	e-Pass Scholarship	-	6	-	-	-	-	6
7	SC/ST Govt. of India Scholarship	-	3	-	-	-	-	3
8	Fee Concession from BCM	-	-	5	-	-	-	5
9	Post Metric (BCM) for OBC Students	-	-	5	-	-	-	5
10	Post Metric Scholarship Schemes for Minorities	-	-	1	-	-	-	1
11	Graduate Assistantship	4	-	-	-	-	10	14
12	Research Assistantship	1	-	-	-	-	-	1
13	EBL - GOI	-	-	-	-	-	7	7
14	ICAR-JRF	-	-	-	-	-	1	1
15	ICAR - Indo-African Fellowship	-	-	-	-	-	1	1
16	BCM	-	-	-	-	-	6	6
Total		54	16	20	5	9	43	147

(ii) UG Gold Medals Awarded:

#	ID. No.	Name	Medals/Awards	OGPA
VETERINARY COLLEGE, BENGALURU				
For the year - 2014-15				
1	VHK-1002	Aditi Handa	University Gold Medal Dr. R.D. Nanjiah Memorial Gold Medal (Vet. Anat, Micro. & Pub. Hel.) Smt. & Sri. M.M. Wadayar Gold Medal - (Animal Science)	8.515 8.622 8.617
2	VHK-1001	Achintya Gowtham	Dr. R.F. Patil Memorial Gold Medal - (Vet. Micro.)	9.103
3	VHK-1066	Vanitha, H.D.	Dr. Syed Mohideen Memorial Gold Medal (Pathology)	9.004
4	VHK-1013	Bhargavi Prakash	Dr. D.M. Karegowda Memorial Gold Medal-(Clinical Vet. Medicine Subject)	8.953



RURAL ORIENTED & FARMER FRIENDLY

For the year - 2015-16

1	VHK-1140	Netra, K. Gowda	University Gold Medal	8.431
2	VHK-1129	Krupa, T.L.	Dr. R.F. Patil Memorial Gold Medal	9.105
3	VHK-1122	Gurubasavaraj, S.	Dr. B.L. Pradeep Memorial Gold Medal	8.986
4	VHK-1152	Ranjitha, K.P.	Sports and Cultural Medal	7.836

VETERINARY COLLEGE, BIDAR

For the year - 2014-15

1	VBK-1013	Bindhuja, B.V.	University Gold Medal	8.669
			D.N. Vasudeva Mudaliar Gold Medal - (Clinical Subject)	8.766
			Dr. R.D. Nanjiah Memorial Gold Medal - (Overall)	8.669
			Prof. S.M. Jayadevappa Gold Medal	8.952
			Sri. T.K. Gurusiddappa Memorial Gold Medal - (Overall)	8.669
			The Lion's International District 304-S Gold Medal - (Overall)	8.669
			Sri. R. Gundu Rao - F.M.Khan Gold Medal - (Overall)	8.669
			Dr. K.Y. Jaganath Gold Medal - (Clinical Subjects)	8.765
			Karnataka Veterinary Association Gold Medal - (Overall)	8.669
			Smt. B. Hosahalli Gullamma Gold Medal - (Overall)	8.669
2	VBK-1031	Nijamuddin Kumasi	Sri. K.R. Alur Memorial Gold Medal - (Anatomy)	8.352
			Dr. R.V. Patil Memorial Gold Medal – (Overall)	8.669
3	VBK-1030	Nidha	State Bank of Hyderabad Gold Medal for Agricultural Quota	7.985

For the year 2015-16

1	VBK-1104	Amruthanand	University Gold Medal	8.401
			Prof. S.M. Jayadevappa Gold Medal	9.341
			Dr. R.V. Patil Memorial Gold Medal - (O)	8.401
2	VBK-1103	Akhilesh	Dr. B.L. Pradeep Memorial - (Vet. Clin.)	8.533
			Dr. Vittal Golbavi Memorial Gold Medal - (O)	8.641
3	VBK-1137	Prashant Soudi	State Bank of Hyderabad Gold Medal for Agricultural Quota	8.186
			Sri. K.R. Alur Memorial Gold Medal - (Anatomy)	8.398



RURAL ORIENTED & FARMER FRIENDLY



VETERINARY COLLEGE, SHIVAMOGGA

For the year - 2014-15

1	VSK-1001	Abhijith, M.S.	University Gold Medal	8.310
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For the year - 2015-16

1	VSK-1130	Ram Kumar	University Gold Medal	7.794
			Celestial's 2009-14 Gold Medal	7.794

VETERINARY COLLEGE, HASSAN

For the year - 2014-15

1	HVK-1027	Ranjitha, H.B.	University Gold Medal	8.505
2	HVK-1012	Kiran, M.	Dr. B.L. Pradeep Memorial Gold Medal - (Gyn. & Obst.)	8.814
3	HVK-1019	Namratha, K.B.	Dr. B.L. Pradeep Memorial Gold Medal - (Vet. Clinical)	8.993
4	HVK-1018	Muniraju, H.M.	Prof. K. Jayakumar Memorial Gold Medal (Highest OGPA under Agriculturist Quota)	8.130

For the year - 2015-16

1	HVK-1144	Surendra, D.S.	University Gold Medal	8.806
			D.N. Vasudeva Mudaliar - (Clinical Subject)	8.669
			Dr. R.D. Nanjiah Memorial (Vet. Anat, Micro. & Pub. Hel.)	8.973
			Dr. R.D. Nanjiah Memorial - (O).	8.806
			Sri. T.K. Gurusiddappa Memorial Gold Medal - (O)	8.806
			Dr. Syed Mohideen Memorial - (Pathology)	9.073
			The Lion's International District 304-S - (O)	8.806
			Sri. R. Gundu Rao - F.M.Khan Gold Medal - (O)	8.806
			Dr. K.Y. Jaganath Gold Medal - (Clinical Subjects)	8.821
			Dr. D.M. Karegowda Memorial Gold Medal - (Clinical Vet. Medicine Subject)	8.791
2	HVK-1116	Jeevan, K.	Smt. B. Hosahalli Gullamma Gold Medal - (O)	8.806
			Karnataka Veterinary Association Gold Medal - (O)	8.806
			Smt. & Sri. M.M. Wadayar - (Animal Science)	8.934
			Prof. K. Jayakumar Memorial Gold Medal (Highest OGPA under Agriculturist Quota)	8.601
			Sri Chanila Shankara Bhat Memorial Gold Medal (Animal & Poultry Sci.)	8.934
			State Bank of Hyderabad Gold Medal for excelled in Cultural Activities	8.601



RURAL ORIENTED & FARMER FRIENDLY
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DAIRY SCIENCE COLLEGE, BENGALURU				
For the year - 2014-15				
1	DHK-1128	Praveen Kumar, Y.S.	University Gold Medal - (O)	8.630
			Dr. (Mrs.) Krishnavenamma & Smt. Kaveramma Gold Medal (Dairy Micro.)	8.510
			Impression Dairy Co-Batch of 1993-97 Gold Medal - (O)	8.630
			Dairy Science College Bengaluru Silver Jubilee Gold Medal - (O)	8.630
2	DHK-1135	Shivaprasad, D.P.	Smt. Kantamma Puttamurthy Memorial Gold Medal - (Highest CGPA in Dairy Technology)	8.670
3	DHK-1114	Jagadeesh, B.N.	State Bank of Hyderabad Gold Medal for excelled in Cultural Activities	7.070
For the year - 2015-16				
1	DHK-1234	Surama, K. Ramesh	University Gold Medal - (O)	8.740
			Dr. (Mrs.) Krishnavenamma & Smt. Kaveramma Gold Medal (Dairy. Micro)	8.710
			Impression Dairy Co-Batch of 1993-97 Gold Medal - (O)	8.740
			Dairy Science College Bengaluru Silver Jubilee Gold Medal - (O)	8.740
2	DHK-1239	Veena, A.	Smt. Kantamma W/o Puttamurthy Memorial Gold Medal - (Highest CGPA in Dairy Technology)	8.580
DAIRY SCIENCE COLLEGE, KALABURAGI				
For the year - 2014-15				
1	DGK-1114	Sharanabasava	University Gold Medal - (O)	8.980
For the year - 2015-16				
1	DGK-1205	Ambika, H.	University Gold Medal - (O)	8.520
COLLEGE OF FISHERIES, MANGALURU				
For the year - 2014-15				
1	FMK-1109	Ashutosh Kumar Singh	University Gold Medal - (O)	8.820
			Mr. R.N. Ramchandra Memorial Gold Medal-(O)	8.820
			Dr. K.V. Devaraj Gold Medal-(O)	8.820
For the year - 2015-16				
1	FMK-1240	Vandana, V.R.	University Gold Medal - (O)	8.77
			Mr. R.N. Ramchandra Memorial Gold Medal - (O)	8.77
			Dr. K.V. Devaraj Gold Medal - (O)	8.77





RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE AND FISHERIES UNIVERSITY

(iii) PG Gold Medals Awarded:
a. Masters Degree

#	ID. No.	Name	Department	Medals/Awards	OGPA
VETERINARY COLLEGE, BENGALURU					
For the year 2014-15					
1	MVHK-1347	Pramina, K.V.	Veterinary Microbiology	University Gold Medal Dr. R. Eswaran Memorial Gold Medal (Vet. Micro)	9.25 9.25
2	MVHK-1366	Baba Buden, J.R.	Veterinary Wildlife	University Gold Medal	9.07
3	MVHK-1310	Anitha, K.C.	Livestock Production and Management	University Gold Medal	9.19
4	MVHK-1350	Chaitra, K. Gowda	Veterinary Parasitology	University Gold Medal Dr. Sivaramakrishnierz Ramachandran and Dr. Sakkubai Paturi Ramachandran Gold Medal	9.26 9.26
5	MVHK-1307	Kavya, P.S.	Animal Nutrition	University Gold Medal	9.18
6	MVHK-1314	Dharmaraj, G.Y.	Poultry Science	University Gold Medal Dr. B.V. Rao, Venkateshwara Hatcheries Ltd, Gold Medal	9.05 9.05
7	MVHK-1325	Kantharaju, M.K.	Veterinary and Animal Husbandry Extension	University Gold Medal	9.32
For the year 2015-16					
1	MVHK-1423	Deepti, C.R.	Veterinary Gynaecology and Obstetrics	University Gold Medal Smt. Saraswati Gurupadappa Nagamarpalli Gold Medal - (VGO)	9.10 9.10
2	MVHK-1455	Meghana Pemmaiah, P.	Veterinary Wildlife	University Gold Medal	9.01
3	MVHK-1408	Supriya, S.	Livestock Production and Management	University Gold Medal	9.36
4	MVHK-1436	Ashwini, M.S.	Veterinary Parasitology	University Gold Medal Dr. Sivaramakrishnierz Ramachandran and Dr. Sakkubai Paturi Ramachandran Gold Medal	9.36 9.36
5	MVHK-1416	Annie, V. Raj	Veterinary Anatomy and Histology	University Gold Medal	9.18





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6	MVHK-1419	Sunil Kumar, K.K.	Veterinary Biochemistry	University Gold Medal	9.00
7	MVHK-1405	Veena, N.	Animal Nutrition	University Gold Medal	9.28
8	MVHK-1415	Pavan Belakeri	Veterinary and Animal Husbandry Extension	University Gold Medal	9.32
9	MVHK-1449	Kavya, N.	Veterinary Pathology	University Gold Medal	9.25

VETERINARY COLLEGE, BIDAR

For the year 2014-15

1	MVNK-1305	Triveni, T.	Veterinary Anatomy & Histology	University Gold Medal	9.10
2	MVNK-1318	Yogesh	Veterinary Physiology	University Gold Medal	9.22
3	MVNK-1309	Prathibha Kaimal, R.	Veterinary Gynecology & Obstetrics	University Gold Medal	9.20
				Smt. Saraswati Gurupadappa Nagamarpalli Gold Medal	9.20
4	MVNK-1315	Sharanagouda, B.M.	Veterinary Medicine	University Gold Medal	9.19
				Smt. S.K. Sowmyanayakamma Gold Medal	9.19
5	MVNK-1323	Vasudev Surendra Pai	Veterinary Surgery and Radiology	University Gold Medal	9.23
				Prof. S.M. Jayadevappa Gold Medal	9.23

For the year 2015-16

1	MVNK-1413	Math Revappayya	Veterinary Microbiology	University Gold Medal	9.06
				Dr. R. Eswaran Memorial Gold Medal (Vet. Micro)	9.06
2	MVNK-1415	Vijayalakshmi	Veterinary Physiology	University Gold Medal	9.19
3	MVNK-1408	Roopali, B.	Veterinary Medicine	University Gold Medal	9.23
				Smt. S.K. Sowmyanayakamma Gold Medal	9.23
4	MVNK-1419	Vinutha, K. Gurukar	Veterinary Surgery and Radiology	University Gold Medal	9.25
				Prof. S.M. Jayadevappa Gold Medal	9.25
				Prof. B.N. Ranganath Gold Medal	9.25
5	MVNK-1403	Mohammed Saqawat Hussain	Animal Genetics & Breeding	University Gold Medal	9.09





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DAIRY SCIENCE COLLEGE, BENGALURU

For the year 2014-15

1	MDK-1304	Basavabharati	Dairy Microbiology	University Gold Medal	9.21
2	MDK-1301	Brunda, S. Murthy	Dairy Chemistry	University Gold Medal	9.14
3	MDK-1306	Chithra, H.A.	Dairy Technology	University Gold Medal	9.33

For the year 2015-16

1	MDK-1413	Yashaswini, N.N.	Dairy Technology	University Gold Medal	9.09
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COLLEGE OF FISHERIES, MANGALURU

For the year 2014-15

1	MFK-1311	Chitra Soman	Fisheries Resources & Management	University Gold Medal	9.23
				Prof. H.P.C. Shetty Gold Medal	9.23

For the year 2015-16

1	MFK-1417	Shobha Rawat	Fisheries Resources & Management	University Gold Medal	9.16
				Prof. H.P.C. Shetty Gold Medal	9.16
2	MFK-1401	Inchara, U.B.	Aquaculture	University Gold Medal	

b. Doctoral Degree

#	ID. No.	Name	Department	Medals/Awards	OGPA
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VETERINARY COLLEGE, BENGALURU

For the year 2014-15

1	DVHK-1208	Rajani, C.V.	Veterinary Anatomy and Histology	University Gold Medal	9.38
2	DVHK-1206	Malathi, V.	Poultry Science	University Gold Medal	9.41
				Mr. H. Sanjeevappa Gold Medal	9.41
				Shri. John Sebastian Gold Medal	9.41
3	DVHK-1230	Gurubasayya Kalmath	Veterinary Physiology	University Gold Medal	
4	DVHK-1221	Sharada, R.	Veterinary Microbiology	University Gold Medal	9.13
5	DVHK-1215	Deepti, B.R.	Veterinary Medicine	University Gold Medal	9.42
6	DVHK-1110	Nandini, M.K.	Veterinary Medicine	University Gold Medal	9.18
7	DVHK-1229	Kavitha Rani, B.	Veterinary Pathology	University Gold Medal	9.39
				Dr. B.P. Madrewar Gold Medal	9.39



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE & SCIENCE UNIVERSITY

8	DVHK-1210	Kanthalraj, S.	Veterinary Gynecology & Obstetrics	University Gold Medal	9.24
9	DVHK-1209	Jayakumar, C.	Veterinary Gynecology & Obstetrics	University Gold Medal	9.24
10	DVHK-1201	Naveenkumar, S.	Animal Genetics & Breeding	University Gold Medal	9.47
11	DVHK-1202	Basavanta Kumar, C.	Animal Nutrition	University Gold Medal	9.36
12	DVHK-1203	Anand	Livestock Production & Management	University Gold Medal	9.22

For the year 2015-16

1	DVHK-1313	Archana, M.	Veterinary Parasitology	University Gold Medal	9.45
2	DVHK-1311	Amitha Reena Gomes	Veterinary Microbiology	University Gold Medal	9.36
3	DVHK-1303	Anup Kumar, P.K.	Livestock Production and Management	University Gold Medal	9.16

DAIRY SCIENCE COLLEGE, BENGALURU

For the year 2014-15

1	DDK-1101	Thejaswini, M.L.	Dairy Technology	University Gold Medal	9.08
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For the year 2015-16

1	DDK-1301	Ramachandra, B.	Dairy Microbiology	University Gold Medal	9.38
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COLLEGE OF FISHERIES, MANGALURU

For the year 2014-15

1	DFK-1202	Varuna Baglodi	Aquaculture	University Gold Medal	9.08
2	DFK-1204	Harsha Nayak	Aquatic Environment Management	University Gold Medal	9.08

For the year 2015-16

1	DFK-1303	Jitendra Kumar	Fisheries Resources & Management	University Gold Medal	9.10
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RURAL ORIENTED & FARMER FRIENDLY

5) Academic Research (Postgraduate Research)

Thesis accepted during the year 2017-18 for Masters and Doctoral Degree

i) Master's Degree:

#	Thesis Title	Name of the Student	Major Advisor and Dept.
VETERINARY COLLEGE, BENGALURU			
1	Effect of supplementation of acidifier on the performance of Raja-II broilers	Dole Vijay Balajirao	T. Munegowda Poultry Science
2	Bacteriological study of water from major water resources of Bandipur and Nagarhole national parks of Karnataka	Vardhaman Patil	D. Rathnamma Veterinary Microbiology
3	Studies on shell disease of captive turtles	Preeti Goswami	S. Yathiraj Veterinary Wildlife
4	Comparative evaluation of Giriraja and Raja-II under intensive and semi-intensive system of rearing	Nagavath Nemya Naik	T. Munegowda Poultry Science
5	Certain epidemiological and molecular studies of fasciola infected snails in some areas of Karnataka	Rajanna, R.	P.M. Thimmareddy Veterinary Parasitology
6	Hepatoprotective activity and toxicity studies of phyllanthus tenellus	Sunilkumar, K.B.	N.B. Shridhar Veterinary Pharmacology and Toxicology
7	Effect of supplementation of various levels of inulin on growth performance, carcass characteristics and immunity in raja II broilers	Praveen, T.	T. Munegowda Poultry Science
8	Pharmacokinetic study of ketoprofen loaded polymeric nano material in rats	Sindhu, B.M	J.S. Sanganal Veterinary Pharmacology and Toxicology
9	Evaluation of antibacterial, anti-inflammatory activity and dermal toxicity study of cassia tora	Tirumala, M.	N.B. Shridhar Veterinary Pharmacology and Toxicology
10	Pathology of thyroid and parathyroid glands in dogs	Anu Dhiman	M.L. Satyanarayana Veterinary Pathology
11	Studies on the pathology of lung disorders in sheep	Raghavendra Yelival	H.D. Narayanaswamy Veterinary Pathology
12	Pharmacological and toxicological study of cissus quadrangularis in rats	Anusha Kudrekar	N.B. Shridhar Veterinary Pharmacology and Toxicology
13	Pathomorphological and molecular studies in bovine mastitis	Sarvesh, K.	M.L. Satyanarayana Veterinary Pathology
14	Effect of supplementation of phytobiotic shatavari (<i>asparagus racemosus</i>) on the growth performance, carcass characteristic and immune status in raja II broilers	Saste Ashwini Shivaji	T. Munegowda Poultry Science



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KARNATAKA VETERINARY AGRICULTURE & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

15	Influence of phytase supplementation on performance and mineral retention in low phosphorus diet fed in Giriraja birds	VidyaSagar	Jayanaik Poultry Science
16	Study of managemental practices followed in equine farms with special reference to stable management	Abdulmateen Wallibhai	Y.B. Rajeshwari Livestock Production and Management
17	Efficacy of mifepristone and prostaglandin in the treatment of closed cervix pyometra in dogs	Malasri, G.	V. Chandrashekhar Murthy, Vety. Gynaecology and Obstetrics
18	Intensive cultivation of agasse (sesbania grandiflora) for sustainable sheep farming-an action oriented research	Kiran, M.	K. Satyanarayan Veterinary Animal Husbandry Extension Education
19	Evaluation of hepato protective activity of methanolic leaf extract of volkameria inermis on papacetamol induced hepatotoxicity in rats	Yogeshgowda, S.	Jagasesh, S. Sanganal Veterinary Pharmacology and Toxicology
20	Studies on pharmacokinetics and biodistribution of azithromycin in broiler chickens	Shruthi, V.R.	Jagasesh, S. Sanganal Veterinary Pharmacology and Toxicology
21	Phenotypic and Cenotypic studies on hepato intestinal schistomes in cattle	Manohara, B.M.	Placid, E. D'Souza Veterinary Parasitology
22	Efficacy of feeding different levels of Multi-Enzymes on growth performance, carcass characteristics and immune status in raja II broilers	Sayyad Irefan Ayub	T. Munegowda Poultry Science
23	Studies on TLR Expression in tigers	Vidya, M.K.	V. Girish Kumar Veterinary Biochemistry
24	Quality attributes and shelf life evaluation of retort processed cereal based chicken stew	Priyanka, V.S.	Nadeem Fairoze Livestock Products Technology
25	Determining optimum breeding time in dogs by using different methods	Meghashree, C.S.	G. Sudha Veterinary Gynaecology Obstetrics
26	Study on some protocols for the induction of lactation in unproductive cattle	Darshaan, C.N.	G. Sudha Veterinary Gynaecology Obstetrics
27	Effect of low-voltage electrical stimulation on the quality and proteome changes in sheep meat	Namratha, K.B.	Nadeem Fairoze Livestock Products Technology
28	Detection of pork fat and lard using polymerase chain reaction (PCR)	Sahana, M.	Nadeem Fairoze Livestock Products Technology



RURAL ORIENTED & FARMER FRIENDLY
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29	Studies on occurrence of pulmonary disorders in dogs	Savitha, J.V.	M. L. Satyanarayana Veterinary Pathology
30	Studies on occurrence of hepatic and pancreatic disorders in dogs	Harshitha, C.R.	M. L. Satyanarayana Veterinary Pathology
31	Studies on contagious ecthyma on sheep and goats	Syeda Sumaiya	Suguna Rao Veterinary Pathology
32	Studies on comparative evaluation of wound healing the surgically excised and zap strap applied tumor wounds of skin and subcutaneous tissue in dogs	Bharathraj, S.V.	B.N. Nagaraja Veterinary Gynaecology Obstetrics
33	Establishment of database for commonly used fodder varieties in Bengaluru	Uday Kumar	Narasimha Murthy LPM
34	Comparative evaluation of lateral flow assay and loop mediated isothermal amplification with acetone and formalin fixation based direct fluorescent antibody assay for diagnosis of rabies in animals	Tajunnisa, M.	Shrikrishna Isloor Veterinary Microbiology
35	A Study on intake of dam's milk and weight gain in Nari Suwarna lambs fed on broken versus geminated hordesgram	Rohith, K.J.	Y.B. Rajeshwari LPM
36	Molecular characterization of Mudhol breed of dog	Sowmyashree, B.L.	M. R. Jayashankar AGB
37	Serum enzymatic and lipid profile in holstein friesian cross bred cows with low solids-not-fat syndrome	Maneesha, H.S.	M. Narayana Swamy VPY
38	Pharmacological and Toxicological Study of <i>Cissus Quadrangularis</i> In Rats	Anusha Kurdekar	N.B. Srudhar VPT
39	Development of ELISA for detection of <i>Mycobacterium Avium</i> Subspecies in Animals	Pannaga, P.	D. Rathnamma VMC
40	Absolute and Relative Quantification of Rabies Virus in Saliva and Brain from Dogs	Sujith, S. Nath	B.M. Veeregowda VMC
41	Studies on the Pathology of Lung Disorders in Sheep	Ragavendra Yalival	H.D. Narayanawamy VPP
42	Post-thaw viability and sperm functional tests of Amrithmahal bull semen	Sunil Kumar, S.C.	V.C. Murthy VGO



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KARNAKA VET AGRICULTURE & FISHERIES SCIENCE UNIVERSITY

43	Studies on conception rate following synchronization of estrus in ewes	Gangadharaiah, B.P.	V.C. Murthy VGO
44	Studies on a modified type ii external skeletal fixation for the repair of tibial fracture in bovines	Varalakshmi, A.	B.N. Nagaraja VSR
45	Haematological, hormonal and vaginal cytological studies during oestrous cycle in captive asian elephants	Ankali Bhairapp	V.C. Murthy WL
46	<i>In vitro</i> evaluation, intake and <i>in vivo</i> digestibility of complete diet based on spineless cactus (<i>opuntia ficus indica</i>) in sheep	Arpitha, R.	Chandra Pal Singh ANN
47	A molecular study on genetic polymorphism of dgat-1 gene in Mandya and Hassan breeds of sheep	Harshitha, B.	M.R. Jayashankar AGB
48	A study on intake of dam's milk and weight gain in Nari Suwarna lambs fed on broken versus germinated horsegram	Rohith, K.J.	U. Krishnamurthy LPM
49	Study of managemental practices followed in equine farms with special reference to stable management	Abdul Mateen Wallibhai	Y.B. Rajeshwari LPM
50	Effect of feeding organic and inorganic sources of additional zinc on growth performance of young piglets	Pramid, Y. Talawar	R. Bhaskaran LPM
51	Smallholder cattle farmers perception of climate change and their adoption measures - an exploratory study in central dryzone of Karnataka	Muttutaj Yadav, E.	V. Jagadeeswary VAHE

VETERINARY COLLEGE, BIDAR

1	Effect of seasons on milk production somatic cell count and expression of HSP70 gene in Deoni cows	Prakash Soloni	Shrikant Kulkarni Veterinary Physiology
2	Evaluation of Boer buck's semen preserved at refrigeration temperature by CASA	Mahesh, M.K.	M.K. Tandle Veterinary Gynaecology and Obstetrics
3	Evaluation of semen preserved at refrigeration temperature by computer assisted semen analysis of Nari Suvana strain of sheep	Akash	M.K. Tandle Veterinary Gynaecology and Obstetrics



RURAL ORIENTED & FARMER FRIENDLY
KARNAKA STATE AGRICULTURE & FISHERIES SCIENCE UNIVERSITY

4	Seroprevalence of brucellosis in sheep and goats of North Eastern Karnataka	Vishwanath	N.A. Patil Veterinary Medicine
5	Study on lorazepam and xylazine sedation for ketamine-iso flurane general in cattle for various clinical surgeries	Kareppa Gudodagi	S.M. Usturge VSR
6	Diagnosis and therapeutic management of bacterial pneumonia in goats	Trupti, S. Kattmani	Ravindra, B.G. Veterinary Medicine
7	Comparative histomorphological study of major salivary glands in Deccani sheep (<i>Ovis aries</i>) and Bidri goat (<i>Capra hircus</i>)	Sharath, K.P.	K.M. Gadre Veterinary Anatomy Histology
8	Isolation and molecular characterization of <i>Salmonella spp.</i> from diarrhoeic cases of pigs	Ramesh Kankanawadi	Basavaraj Awati VMC
9	Study on assessment of anthelmintic resistance against strongylosis in goats	Yashada Rathod	Vivek, R. Kasaralikar VMD
10	Evaluation of Boer buck's semen preserved at refrigeration temperature by computer assisted semen analysis	Mahesh, M.K.	M. K. Tandle VGO
11	Induction of estrus in postpartum anestrus buffaloes	Sagar Patil	R.G. Bijurkar VGO
12	The hormonal and haemato biochemical estimation in dystotic goats	Anand, N. Sangami	R.G. Bijurkar VGO
13	Evaluation of dexmedetomidine and lorazepam sedation for ketamine iso flurane general anaesthesia in goats undergoing surgeries	Nikhith, M.S.	B.V. Shivaprakash VSR
14	Comparative evaluation of veterinary cuttable plate and polypropylene mesh impregnated pmma plates for long bone fracture repair in goats	Vinit	D. Dilip Kumar VSR
15	Identification of variants in bovine <i>tlr2</i> gene and its association with somatic cell count	Shreekant	H.M. Yathish AGB
16	Analysis of morphometric traits and lactation milk yield in Dharwadi buffaloes	Tippanna	M. M. Appannavar AGB



RURAL ORIENTED & FARMER FRIENDLY



17	Genetic polymorphism of β 4-defensin gene and its association with somatic cell count in Deoni cattle	Thakur Pavankumar, B.	H.M. Yathish AGB
18	Analysis of body weight of Deoni cattle using biometrical measurements	Siddashree	P.G. Waghmare LPM

VETERINARY COLLEGE, SHIVAMOGGA

1	Promotion of community led rural hatcheries to support backyard poultry production-An Action Research	Pushpa, G. Malagittimath	K.C. Veeranna Veterinary and Animal Husbandry Extension
2	Studies on certain quality parameters and prevalence pathogens of public health significance in raw milk of farm animals	Tarini, N.K.	Madhavaprasad, C.B. Veterinary Public Health and Epidemiology
3	Studies on neurobiochemical and neuropharmacological activities in wistar rats exposed to arsenic with or without exogenous melatonin administration	Prasada Ningappa Durappannavar	Prakash Nadoor Veterinary Pharmacology and Toxicology

DAIRY SCIENCE COLLEGE, BENGALURU

1	Characterization of bio-surfactant produced by milk origin bacillus species	Sanjana, M.C.	Prabha, R. Dairy Microbiology
2	Process optimization for the development of spiced cottage cheese	Himabindu, D.	H. Arun Kumar Dairy Technology
3	Development of coconut milk and Kiwi fruit pulp enriched dahi	Nikhil Mahabala Shetti	Venkatesh, M. Dairy Technology
4	Development of low-calorie almond milk health beverage	Bhaskar Reddy, N.	H.G. Ramachandra, Rao Dairy Technology
5	Development of low calorie tulsi (<i>ocimum sanctum</i>) blended herbal flavoured milk	Harsha, V.K.	Arunkumar Dairy Technology
6	Biomass production of lactic acid bacterial cultures by solid state fermentation technique	Akshaykumar	Ramachandra, B. Dairy Microbiology
7	Development of bioactive nutraceutical qhey porridge	Kiran Kumar, G. Channa	D.B. Puranik Dairy Technology
8	Effect of blending of safflower (<i>carthamus tinctorius</i>) milk with cow milk on quality attributes of <i>paneer</i>	Poojitha, G.	Jayashree, P. Hiremath Dairy Chemistry



RURAL ORIENTED & FARMER FRIENDLY

KARNATAKA VET. AGRICULTURE & FISHERIES SCIENCE UNIVERSITY

9	Formulation of dairy by product based health beverage	Prashanth, B.M.	H.M. Jayaprakasha Dairy Technology
10	Development of methods to assess the purity of milks	Anantha Kumara	C. Kempanna Dairy Chemistry
11	Development of finger millet (<i>Eleusine coracana</i>) Enriched fruit blended robotic stirred yoghurt	Santhosh, V.N.	M. Venkatesh Dairy Technology
12	Development of pomegranate based whey beverage	Santhosha, M.D.	Venkatesh, M. Dairy Technology

COLLEGE OF FISHERIES, MANGALURU

1	Evaluation of efficacy of a selected antibiotic against <i>Aeromonas hydrophila</i> in Indian major carp, Catla Catla (<i>Hamilton 1822</i>)	Nevil Pinto	Ganapathi Naik, M. Aquaculture
2	Effect of dietary peppermint (<i>Mentha Piperita</i>) on growth, survival, disease resistance and hematology of Indian major carp, Rohu (<i>Labeo Rohita</i>)	Padala Dharmakar	Ganapathi Naik, M. Aquaculture
3	Production of a female free population of gift strain (<i>Oreochromis Niloticus</i>) by application of an aromatase inhibitor	Prabhashlal, P.	N. Basavarja Aquaculture
4	Ecological assessment of Karanja Reservoir Bidar	Ligesh	H.R.V. Reddy FEE
5	Distribution and abundance of intertidal organism along the selected beaches of Mangaluru	Daggula Narshivudu	Lakshmipathi, M.T. FEE
6	Physiological and haematological changes to sub lethal concentrations of Nickel during accumulation and depuration phases in Nile Tilapia <i>Oreochromis Niloticus</i> (<i>Linnaeus, 1758</i>)	Telugu Chandra Mohan	Gangadhara Gowda FEE
7	Studies on application of natural preservative to enhance the storage stability of fish sausage in cellulose casing	Richa Chaudhary	C.V. Raju FPT
8	Quality evaluation of hot smoked fillets and steaks of mullet fish stored at different temperature	Shihabudheen Machingal	S. Siddappaji FPT
9	Prevalence of diseases of cultured shrimp in Karnataka coast	Rajesh Ranjan	M.N. Venugopal FMB
10	Assessment of ichyofaunal biodiversity of mulki-pavanja estuarine system of Dakshina Kannada District, Karnataka	Adarsh, K.	S.R. Somshekara FRM



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KARNATAKA VETERINARY AGRICULTURAL & SCIENCE UNIVERSITY

ii) Doctoral Degree:

<i>Sl. No.</i>	<i>Thesis Title</i>	<i>Name of the Student Degree</i>	<i>Major Advisor and Dept.</i>
VETERINARY COLLEGE, BENGALURU			
1	Effect of varied levels of dietary crude protein and metabolizable energy on the performance of Giriraja parent and its progeny	Rajeswara, H.N.	Jayanaik Poultry Science
2	Comparative studies on the efficacy of different techniques for the diagnosis of prostatic disorders in dogs	Bibin Becha, B.	A. Krishnaswamy Veterinary Gynaecology Obstetrics
3	Isolation and molecular characterization of <i>Mycobacterium avium</i> subsp paratuberculosis form ruminants in Karnataka	Shivalingappa Mukartal	R.D. Rathnamma Veterinary Pharmacology and Toxicology
4	Multi-Residue analysis of same organochlorine pesticides in coramatograthy-electron capture detector (GC-ECD)	Lokesha, L.V.	Jagadeesh, S. Sanganal Veterinary Pharmacology and Toxicology
5	Studies on seropidemiological Hematological and biochemical aspects of anaplasmosis in sheep.	Patel Suresh Revanna	P.T. Remesh Veterinary Medicine
6	Estimation of post vaccinal Antirabies antibody titer and evalution of different regimen of vaccination in cattle	Sunil Kumar, K.M.	C. Ansarkamaran Veterinary Medicine
7	Immunolocalisation of certain fertility proteins in testis excretory duct system and spermatozoa of adult buffalo (<i>Bubalus bubalis</i>)	Sunikumar Patil	K.V. Jamuna Veterinary Anatomy and Histology
8	Studies on prevalence diagnosis and treatment of postpartum sub-clinical endometritis in crossbred dairy cows	Sahadev	A. Krishnawamy Veterinary Gynaecology and Obstetrics
9	Studies on Prevalence Diagnosis treatment of sub-clinical endometritis in repeat breeding	Sunith Behera	V.Chandrashekaramurthy Veterinary Gynaecology and Obstetrics
10	Pathomorphological and molecular studies in bovine mastitis	Sarvesha, K.	M. L. Satyanarayana Veterinary Pathology
11	Studies on hemato-biochemical profile and immune responsiveness to vaccination against foot and mouth disease in Malnad Gidda cattle	Hemanth Gowda, K.	M. Narayana Swamy Veterinary Parasitology
12	Nutritional Evalution of spineless cactus (<i>opuntia ficus indica</i>) in growing lambs	Ajith, K.S.	K. Chandrapal Singh Animal Nutrition



RURAL ORIENTED & FARMER FRIENDLY
BIDAR VETERINARY COLLEGE

13	Studies on clinico-pathology and molecular diagnosis of paratuberculosis in small ruminants	Srikanth, M.	H.D. Narayanaswamy Veterinary Pathology
14	Effect of reducing crude protein levels supplemented with limiting amino acids on the performance of Swarnadhara female parent and its progeny	Beena, C. Joseph	Jayanaik Poultry Science
15	Morphological characterization of keratin materials and their potential for biomedical applications	Dhoolappa, M.	R.V. Prasad VAN
16	Immunolocalisation of certain fertility proteins in testis, excurrentduct system and spermatozoa of adult buffalo (<i>Bubalus Bubalis</i>)	Sunilkumar Patil	K.V. Jamuna VAN
17	Studies on hemato-biochemical profile and immune responsiveness to vaccination against foot and mouth disease in Malnad Gidda cattle	Hemanth Gowda, K.	M. Narayana Swamy VPY
18	Pathomorphological studies on induced diabetes in rats and evaluation of antidiabetic efficacy of <i>aloe vera</i> and <i>murraya koenigii</i> plant extracts	Manjunatha, S.S.	M. L. Satyanarayana VPP
19	Studies on reproductive efficiency of female Mudhol Hound dogs	Mahesh Dodamani	A. Krishna Swamy VGO
20	Studies on clinicopathological and ultrasonographic evaluation of hepatic disorders in dogs	Vijayakumar, N. Telagar	C. Ansar Kamran VMD
21	Certain epidemiological aspects of antibiotic residues in cattle milk at selected districts of Karnataka	Vinu David. P.	P.T. Ramesh VMD
22	Genetic studies on production and reproduction parameters in Frieswal crossbred dairy cattle	Harish, S.N.	M.R. Jayashakar AGB
23	Effect of Varied Levels of dietary crude protein and metabolizable energy on the performance of Giriraja parent and its progeny	Rajeswara, H.N.	Jayanaik PSC

VETERINARY COLLEGE, BIDAR

1	<i>In Vivo And In Vitro</i> evaluation of sugarcane trash based diets on the performance of Narisuwarna × Kenguri -F1 sheep	Jaishankar, N.	Ramachandra, B. ANN
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RURAL ORIENTED & FARMER FRIENDLY
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2	Evaluation of different tube cystostomy techniques along with urethrotomy and bladder repair for urethral obstruction in bullocks	Basavaraj Ramappa Balappanavar	B.V. Shivaprakash VSR
3	Studies on acute ruminal acidosis in goats with special reference to therapeutic and surgical management	Bhagavantappa, B.	Shivshankar, M. Usturge VSR
4	Comparative evaluation of DCP LCP and IILN for repair of femoral fractures in canines	Manjunath Patil	Dilip Kumar VSR

COLLEGE OF FISHERIES, MANGALURU

1	Use of potato peel and ginger extract as natural antioxidants on the storage stability of prepared product from blended meat of oil sardine and fish filleting waste	Rajkumar Ratankumar Singh	C.V. Raju FPT
2	Effect of orange and pomegranate peel extracts on the storage stability of fish paste product	Jag Pal	C.V. Raju FPT

ABSTRACT

#	Name of the College	Master Degree Thesis Accepted	Doctoral Degree Programme Thesis Accepted	Total
1	Veterinary College, Bengaluru	51	23	74
2	Veterinary College, Bidar	18	04	22
3	Veterinary College, Shivamogga	03	00	03
4	Dairy Science College, Bengaluru	12	00	12
5	College of Fisheries, Mangaluru	10	02	12
Total		94	29	123



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VET. AGRICULTURE & FISHERIES COLLEGE, SHIRGAKONDA
SHIRGAKONDA, DIST. DAKSHIN KANNADA, KARNATAKA - 574 111

6) Library and Information Services

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

#	Particulars	VCH & DSCH	VCB	VCS	HVC	VCG	DSCK	FCM	TOTAL
1	Books	17592	13251	7094	6329	724	2275	17664	64929
2	Theses	1882	1006	06	-	-	-	853	3747
3	Reports	1004	44	25	156	-	-	3223	4452
4	Pamphlets	712	-	33	54	-	-	965	1764
5	Bound Volumes	12033	2592	93	-	-	-	6357	21075
6	Gift Books	1328	159	21	-	-	95	520	2123
7	SC/ST Books	2482	2509	957	824	-	373	1700	8845
8	Indian Journals	29	32	11	43	-	-	12	127
9	Foreign Journals	19	05	-	02	-	-	2	28
10	Back Volumes	12033	2592	23	917	-	-	6357	21922
11	Others E-Books	1338 e-books were purchased and made available to all campus libraries through EZproxy server from main campus library and also provided all e-books in soft copy to all campus libraries							

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

#	Particulars	VCH & DSCH	VCB	VCS	HVC	DSCK	FCM	Total
1	e-journals / CD	Accessing CeRA Consortium, Vet Med Resources online database and 21 Indian e-journals	Accessing CeRA Consortium, Vet Med Resources online database and 21 Indian e-journals	Accessing CeRA Consortium and 21 Indian e-journals	-			
2	CD's	270	150	53	159	--	50	682

(iii) Membership Usage

#	Particulars	VCH & DSCH	VCB	VCS	HVC	VCG	DSCK	FCM	Total
1	Students at UG Level	533	283	309	298	-	90	193	1606
2	Students at PG Level	172	25	13	-	-	-	43	302
3	Staff	093	12	25	26	-	06	45	368
Total		798	320	347	324	-	96	281	2276



RURAL ORIENTED & FARMER FRIENDLY

7) Student Welfare Activities

DIRECTORATE OF STUDENT WELFARE, KVAFSU, BIDAR

13th KVAFSU Inter-Collegiate Cricket and Football Tournament - 2017-18

13th KVAFSU Inter-Collegiate Cricket and Football Tournament 2017-18 was organized by Veterinary College, Bidar during 21-23rd September, 2017. All constituent colleges viz., Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru, Dairy Sciences College Bengaluru / Kalaburagi and College of Fisheries, Mangaluru participated in the events. The Inter-Collegiate Cricket and Football Tournament-2017 was inaugurated by Dr. R.V. Prasad, Hon'ble Vice-Chancellor, KVAFSU, Bidar. Sri. Nagbhushan Kamthane, Sri. Mallikarjun Biradar, Sri. Iresh Anchageri and Smt. Lumbini Gowtham Hon'ble Members of Board of Management, KVAFSU, Bidar were the Chief Guests. Dr. H. Shivanand Murthy, Registrar, KVAFSU, Bidar; Dr. S.M. Usturge, Director of Research, KVAFSU, Bidar; Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar; Dr. Nadeem Feroz, Director of Instruction (PGS), KVAFSU, Bidar; Sri. Mllikarjun Ligade, Comptroller, KVAFSU, Bidar; Dr. Yeshwant Kumar, Director of Student Welfare KVAFSU, Bidar; Dr. M.M. Appanawar, Controller of Examination, KVAFSU, Bidar; Dr. U.S. Jadhav, University Librarian, KVAFSU, Bidar; Sri. Ramappa Korwar, Estate Officer, KVAFSU, Bidar participated as guests whereas Dr. B.V. Shivaprakash, Dean, Veterinary College, Bidar presided over the function.

The winners and Runners of the Inter-Collegiate Cricket and Football tournament were as follows;

1. Football Men -	Winner - Veterinary College, Shivamogga Runner - College of Fisheries, Mangaluru
2. Cricket -	Winner - Veterinary College, Bengaluru Runner - Veterinary College, Bidar

The Valedictory function organized on 23rd September, 2017. Dr. R.V. Prasad, Hon'ble Vice-Chancellor, KVAFSU, Bidar and Sri. Nagbhushan Kamthane, Sri. Mallikarjun Biradar, Sri. Iresh Anchageri and Smt. Lumbini Gowtham Hon'ble Members of Board of Management, KVAFSU, Bidar participated as Chief Guests. Dr. H. Shivanand Murthy, Registrar, KVAFSU, Bidar, Dr. S.M. Usturge, Director of Research, KVAFSU, Bidar; Dr. S.M. Shivaprakash, Director of Extension, KVAFSU, Bidar; Dr. Nadeem Feroz, Director of Instructions (PGS), KVAFSU, Bidar; Sri. Mllikarjun Ligade, Comptroller, KVAFSU, Bidar; Dr. Yeshwant Kumar, Director of Student Welfare, KVAFSU, Bidar; Dr. M.M. Appanawar, Controller of Examinations, KVAFSU, Bidar; Dr. U.S. Jadhav, University Librarian KVAFSU, Bidar; Sri. Ramappa Korwar, Estate Officer, KVAFSU, Bidar were present on the occasion. Dr. B.V. Shivaprakash Dean Veterinary College, Bidar presided over the function.





RURAL ORIENTED & FARMER FRIENDLY
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Inter Collegiate Youth Festival held at Veterinary College, Shivamogga during 4-6th October, 2017

13th KVAFSU Intercollegiate Youth Festival - 2017-18 organized by Veterinary College, Shivamogga during 4-6th October, 2017. All the constituent colleges viz., Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru; Dairy Sciences College, Bengaluru / Kalaburagi and College of Fisheries, Mangaluru teams were participated. The 13th Intercollegiate Youth Festival 2017-18 was conducted in the name of "Sharath Sambrama" and inaugurated by Hon'ble Vice-Chancellor, KVAFSU, Bidar Prof. R.V. Prasad. Dr. K.S. Pavitra M.D., Psychiatrist and Famous Barathanatyam Dancer were the Special Invitee. Smt. Lumbini Gautham and Dr. R. Narendra, Hon'ble Members of Board of Management, KVAFSU, Bidar were the Chief Guests. Prof. H. Shivananda Murthy, Registrar, KVAFSU, Bidar and Dr. Yeshwanthkumar, Director of Students Welfare, KVAFSU, Bidar were also present as honorary guests. Dr. K.C. Veeranna, Dean, Veterinary College, Shivamogga presided over the inaugural function.

The winners and runners of the Inter-Collegiate Youth Festival were as follows;

1	Light vocal (Solo song)	:	I Prize	:	Mr. Shashank, S. Veterinary College, Hassan
		:	II Prize	:	Miss. Shraddha Nair Veterinary College, Bidar
		:	III Prize	:	Miss. Amrutha Nadig Dairy Science College, Bengaluru
2	Group Songs	:	I Prize	:	Veterinary College, Hassan
		:	II Prize	:	Veterinary College, Shivamogga
		:	III Prize	:	Dairy Science College, Bengaluru
3	Patriotic Songs	:	I Prize	:	Dairy Science College, Bengaluru
		:	II Prize	:	Veterinary College, Shivamogga
		:	III Prize	:	Veterinary College, Hassan
4	Kannada Debate Competition	:	I Prize	:	Mr. Poornesh, M.T. College of Fisheries, Mangaluru Against: Sri Sheethal Kumar N.P., Veterinary College, Shivamogga
		:	II Prize	:	Miss. Shilpa, S. Veterinary College, Hassan Against: Miss. Keerthi, K., Veterinary College, Bengaluru
		:	III Prize	:	Miss. Sugama, S. Naik Veterinary College, Bengaluru Against: Mr. Manjunath Veterinary College, Hassan



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE UNIVERSITY

5	Kannada Speech	:	I Prize	:	Miss. Keerthi, K. Veterinary College, Bengaluru
		:	II Prize	:	Mr. Sheethal Kumar, N.P. Veterinary College, Shivamogga
		:	III Prize	:	Miss. Poornashree, M.T. College of Fisheries, Mangaluru
6	Kannada Extempore	:	I Prize	:	Miss. Poornashree, M.T. College of Fisheries, Mangaluru
		:	II Prize	:	Miss. Priyanka, M.B. Veterinary College, Bidar
		:	III Prize	:	Mr. Manjunath Veterinary College, Hassan
7	Quiz Competition	:	I Prize	:	Veterinary College, Shivamogga
		:	II Prize	:	Veterinary College, Bengaluru
		:	III Prize	:	Dairy Science College, Kalaburagi
8	Rangoli Competition	:	I Prize	:	Miss. Priyanka Maruthi Kittur Veterinary College, Shivamogga
		:	II Prize	:	Miss. Manasa, M. Veterinary College, Bengaluru
		:	III Prize	:	Miss. Aishwarya, M.Y. Dairy Science College, Kalaburagi
9	Clay Modeling	:	I Prize	:	Mr. Ekanath Mudholkar Veterinary College, Shivamogga
		:	II Prize	:	Mr. Sanuchand, H. Dairy Science College, Kalaburagi
		:	III Prize	:	Mr. Pruthvi Patel Veterinary College, Bengaluru
10	Mono Acting	:	I Prize	:	Mr. Sunil Nagappa Kodlur Veterinary College, Shivamogga
		:	II Prize	:	Miss. Hamsa, A. Dairy Science College, Bengaluru
		:	III Prize	:	Mr. Balanagowda, M. Patil Veterinary College, Bengaluru
11	One Act Play (Drama)	:	I Prize	:	Veterinary College, Hassan
		:	II Prize	:	Veterinary College, Shivamogga
		:	III Prize	:	Veterinary College, Bengaluru



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

12	English Debate Competition	: I Prize	: For: Mr. Chethan Veterinary College, Shivamogga Against: Mr. Jayanth, H. Veterinary College, Bidar
		: II Prize	: For: Miss. Shayista Firdose Veterinary College, Hassan Against: Miss. Ishitha Nair Veterinary College, Bengaluru
		: III Prize	: For: Miss. Sugama, S. Naik Veterinary College, Bengaluru Against: Mr. Meraaj, B.M. Veterinary College, Hassan
13	English Speech	: I Prize	: Mr. Chethan Veterinary College, Shivamogga
		: II Prize	: Miss. Ishitha Nair Veterinary College, Bengaluru
		: III Prize	: Miss. Shayista Firdose Veterinary College, Hassan
14	English Extempore	: I Prize	: Miss. Shayista Firdose Veterinary College, Hassan
		: II Prize	: Mr. Chethan Veterinary College, Shivamogga
		: III Prize	: Miss. Ishitha Nair Veterinary College, Bengaluru
15	Mime	: I Prize	: Miss. Manasa, M. Veterinary College, Bengaluru
		: II Prize	: Mr. Sanuchand, H. Dairy Science College, Kalaburagi
		: III Prize	: Mr. Chandan, M.M. Veterinary College, Hassan
16	Poster Making	: I Prize	: Miss. Pooja, D. Naik Veterinary College, Bengaluru
		: II Prize	: Miss. Simran Kaur Veterinary College, Hassan
		: III Prize	: Miss. Sushmitha, R.Y. Dairy Science College, Kalaburagi



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE & FISHERIES COLLEGES UNION
KVAFSU

17	On the Spot Painting	:	I Prize	:	Miss. Pooja, D. Naik Veterinary College, Bengaluru
		:	II Prize	:	Miss. Pruthvi Veterinary College, Shivamogga
		:	III Prize	:	Mr. Prashanth, R.G. Veterinary College, Bidar
18	Collage	:	I Prize	:	Miss. Pruthvi Veterinary College, Shivamogga
		:	II Prize	:	Mr. Gurudev Kajargi Veterinary College, Bidar
		:	III Prize	:	Miss. Hamsa, A. Dairy Science College, Bengaluru
19	Skit	:	I Prize	:	Veterinary College, Hassan
		:	II Prize	:	Veterinary College, Bengaluru
		:	III Prize	:	Veterinary College, Shivamogga
20	Cartooning	:	I Prize	:	Veterinary College, Shivamogga
		:	II Prize	:	Veterinary College, Bengaluru
		:	III Prize	:	Dairy Science College, Bengaluru
21	Group (Folk) Dance	:	I Prize	:	Veterinary College, Bengaluru
		:	II Prize	:	Dairy Science College, Kalaburagi
		:	III Prize	:	Veterinary College, Shivamogga

13th Inter Collegiate Youth Festival – 2017 Comprehensive Award

I Prize - Veterinary College, Shivamogga

II Prize - Veterinary College, Bengaluru

The Valedictory function was organized on 6th October, 2017. Shri. Vaidya, Senior Press Reporter has invited as Special Invitee. Hon'ble Members of Board of Management, KVAFSU, Bidar Shri. Naghabhushan Kamtane, Shri. Mallikarjun Biradar and Shri. Iresh Anchatageri participated as Chief Guests. The University Officers such as Dr. S. M. Usturge, Director of Research, Dr. Shivaprakash, S.M., Director of Extension, Dr. Jayaprakash, H.M., Dean, Dairy Science College, Bengaluru, Dr. Shivaprakash, B.V., Dean, Veterinary College, Bidar, Dr. N.A. Patil, Officer on Special Duty, Veterinary College, Athani, Dr. H. Manjunath, Officer on Special Duty, Dairy Science College, Kalaburagi and Dr. Yeshwanthkumar, Director of Students Welfare, KVAFSU, Bidar were attended as Guest of Honour and Dr. K.C. Veeranna, Dean, Veterinary College, Shivamogga was presided over the valedictory function.

13th Inter Collegiate Sports and Games Meet 2017-18

13th KVAFSU Inter-Collegiate Sports and Games Meet - 2017-18 was organized by Veterinary College, Hassan. All constituent colleges viz., Veterinary College, Bidar / Shivamogga / Hassan /



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Bengaluru / Gadag, Dairy Sciences College Bengaluru/Kalaburagi, and College of Fisheries, Mangaluru participated in the events. The Inter-Collegiate Sports and Games Meet, 2017-18 was inaugurated by Hon'ble board member of KVAFSU, Sri Iresh Anchatergi, Dr. H.M. Jayaprakash, Dean, Dairy Science College, Bengaluru, Dr. K.C. Veeranna, Dean, Veterinary College, Shivamogga and Dr. Yeshwant Kumar, Director of Student Welfare, KVAFSU. It was presided by Dr. L Ranganath, Dean, Veterinary College, Hassan.

The Valedictory function was organized on 17th Oct.2017. Hon'ble Board members KVAFSU, Bidar, Sri Nagabhushana Kamathane and Sri Mallikarjun Biradar were the chief guests and Dr. Placid E D'souza, Dean Veterinary College, Bengaluru and Dr. Yeshwanth Kumar, DSW, KVAFSU, Mr. Subraya Prabhu S, Organizing secretary, HOD, Physical Education graced the occasion. Dr. L Ranganath, Dean, Veterinary College Hassan presided over the function.

The results were as follows;

Athletics:

1. Overall Championship:- bagged by Veterinary College, Shivamogga with 55 points
2. Runner-up :- bagged by Veterinary College, Bengaluru with 53 points

Group Games:

1. Overall Championship:- bagged by College of Fisheries, Mangaluru with 68 points
2. Runner-up :- bagged by Veterinary College, Shivamogga with 48 points

Overall Championship (Athletics & Games):

1. Overall Championship:- bagged by College of Fisheries, Mangaluru (104 points)
2. Runner-up :- bagged by Veterinary College, Shivamogga with (103) points

Individual Championship:

1. Women Section :- Bhumika K, Veterinary College, Bengaluru with 20 points
2. Men Section:- Varun SN, Veterinary College, Shivamogga(16points)

Individual Championship (Women) : Bhumika K of Veterinary College, Bengaluru

Overall Championship (Athletics Winners) : Veterinary College, Shivamogga

Overall Championship (Athletics Runner-up): Veterinary College, Bengaluru

Individual Championship : Varun, S.N., Veterinary College, Shivamogga

2nd KVAFSU Inter Animal Husbandry Polytechnics Sports Meet - 2017-18

IInd KVAFSU Inter Animal Husbandry Polytechnics Sports Meet - 2017-18 was organized by office of the Director of Student Welfare KVAFSU, Bidar on 05th & 06th December-2017 at Main Campus, KVAFSU, Bidar. The students from five constituent Polytechnic colleges Konehalli, Bargi, Dornhalli, Hassan and Shiggaon participated in the sports meet. The Sports Meet was inaugurated by Dr. R.V. Prasad, Hon'ble Vice chancellor KVAFSU Bidar, Sri. Nagbhushan Kamthane, Hon'ble Board of Management KVAFSU, Bidar, Sri. Mallikarjun Biradar, Hon'ble Board of Management KVAFSU, Bidar, Shri. Iresh Anchatergi, Hon'ble Board of Management KVAFSU, Bidar, Smt Lumbini



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Gowtham Hon'ble Board of Management KVAFSU, Bidar, Participated as chief guest Dr.H.Shivanand Murthy, Registrar, KVAFSU, Bidar, Dr. S.M. Usturge, Director of Research KVAFSU, Bidar, Dr. Shivaprakash, S.M., Director of Extension, KVAFSU, Bidar, Dr. Nadeem Feroz, D.I.P.Gs, KVAFSU, Bidar, Shri. K.L. Suresh, Comptroller, KVAFSU, Bidar, Dr. Yeshwant Kumar, Director of Student Welfare KVAFSU, Bidar, Dr. M.M Appanawar, Controller of Examination KVAFSU, Bidar, Dr. U.S. Jadhav Librarian KVAFSU, Bidar, Shri. Ramappa, Estate Officer, KVAFSU, Bidar as participated guest and Dr. N.A., Patil, Dean Veterinary College Bidar presided over the function.

The winners and Runners of the Inter Animal Husbandry Polytechnic Colleges Sports Meet are as follows;

#	Name of Event	Secured Place	College	
1	Volleyball (Men)	Winner	Animal Husbandry Polytechnic, Konehally	
		Runner	Animal Husbandry Polytechnic, Koravangala	
2	Kho-Kho (Men)	Winner	Animal Husbandry Polytechnic, Konehally	
		Runner	Animal Husbandry Polytechnic, Shiggaon	
3	Kabaddi (Men)	Winner	Animal Husbandry Polytechnic, Koravangala	
		Runner	Animal Husbandry Polytechnic, Bargi	
4	Volleyball (Women)	Winner	Animal Husbandry Polytechnic, Koravangala	
		Runner	Animal Husbandry Polytechnic, Bargi	
5	Kabaddi (Women)	Winner	Animal Husbandry Polytechnic, Koravangala	
		Runner	Animal Husbandry Polytechnic, Bargi	
Overall Championship		Winner	Animal Husbandry Polytechnic, Konehally	
		Runner	Animal Husbandry Polytechnic, Koravangala	

The Valedictory function was organized on 6th December, 2017. Dr. R.V. Prasad, Hon'ble Vice chancellor KVAFSU Bidar, Sri. Nagbhushan Kamthane, Hon'ble Board of Management KVAFSU, Bidar, Sri. Mallikarjun Biradar, Hon'ble Board of Management KVAFSU, Bidar, Shri. Iresh Anchatgeri, Hon'ble Board of Management KVAFSU, Bidar, Smt Lumbini Gowtham Hon'ble Board of Management KVAFSU, Bidar, Participated as chief guest Dr.H.Shivanand Murthy, Registrar, KVAFSU, Bidar, Dr. Shiveshanker, M. Usturge, Director of Research, KVAFSU, Bidar, Dr. Shivaprakash, S.M., Director of Extension, KVAFSU, Bidar, Dr. Nadeem Feroz, D.I.P.Gs, KVAFSU, Bidar, Shri. K.L. Suresh, Comptroller, KVAFSU, Bidar, Dr. Yeshwant Kumar, Director of Student Welfare KVAFSU, Bidar, Dr. M.M Appanawar, Controller of Examination KVAFSU, Bidar, Dr. U.S. Jadhav Librarian KVAFSU, Bidar, Shri. Ramappa, Estate Officer, KVAFSU, Bidar. as participated guest and Dr. N.A., Patil, Dean Veterinary College Bidar presided over the function.

1st KVAFSU Inter-Collegiate Non Teaching Staff Sports Meet - 2017-18

1st KVAFSU Inter-collegiate Non Teaching Staff sports meet 2017-18 was organized by office of the Director of student welfare at Main Campus KVAFSU Stadium, Bidar from 26th and 27th December-2017. All constituent Colleges staff viz., Veterinary College, Bidar / Shivamogga / Hassan / Bengaluru, Dairy Sciences College Bengaluru / Kalaburagi, and college of Fisheries Mangaluru and IAH & VB Bengaluru participated in the events. The inter-collegiate Non Teaching staff sports meet 2017 was inaugurated by Dr. R.V. Prasad, Hon'ble Vice-Chancellor KVAFSU Bidar, Sri. Nagbhushan Kamthane, Hon'ble Board of Management KVAFSU, Bidar, Sri. Mallikarjun Biradar, Hon'ble Board





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of Management KVAFSU, Bidar, Shri. Iresh Anchatergi, Hon'ble Board of Management KVAFSU, Bidar, Smt. Lumbini Goutam, Hon'ble Member of Board of Management KVAFSU, Bidar, Participated as Chief Guest Dr. H. Shivanand Murthy, Registrar, KVAFSU, Bidar, Dr. Shivaprakash S.M, Director of Extension, KVAFSU, Bidar, Dr. Nadeem Feroz, D.I.P.G.S, KVAFSU, Bidar, Dr. B.V. Shivaprakash, Director of Research, KVAFSU, Bidar, Shri. K.L. Suresh, Comptroller, KVAFSU, Bidar, Dr. M.M. Appannavar, Controller of Examination, KVAFSU, Bidar, Dr. U.S. Jadhav, Librarian, KVAFSU, Bidar, Shri. Ramappa, Estate Officer, KVAFSU, Bidar. Dr. S.M. Usturge, O.S.D, Veterinary College, Athni. Participated as Guest and Dr. N.A. Patil, Dean, Veterinary College Bidar presided over the function.

The winners and Runners of the inter-collegiate Non Teaching staff sports meet are as follows

#	Name of Event	Secured Place	College
1	Cricket (Men)	Winner	Veterinary College, Bengaluru
		Runner	Veterinary College, Bidar
2	Volleyball (Men)	Winner	Veterinary College, Hassan
		Runner	Veterinary College, Shivamogga
3	Table Tennis Singles (Men)	Winner	Kumar Swamy M.E., Veterinary College, Hassan
		Runner	Dayananda M.S., Veterinary College, Shivamogga
4	Table Tennis Doubles (Men)	Winner	Dayananda, M.S. and Jagadish, G.R. Veterinary College, Hassan
		Runner	Devraj Panchal and Rajshekhar Dugani Veterinary College, Bidar
5	Shuttle Badminton Single (Men)	Winner	Gurumurthy, B.N., Dairy Science College, Bengaluru
		Runner	Rahul Doddi, Veterinary College, Bidar
6	Shuttle Badminton Double (Men)	Winner	Gurumurthy, B.N. and Nawaz Pasha, A. Dairy Science College, Bengaluru
		Runner	Devraj Panchal and Rahul Doddii Veterinary College, Bidar
7	Carom Doubles (Men)	Winner	Mallesh, D.B. and Ramesh, D. Belchaada College of Fisheries, Mangaluru
		Runner	Jaipal Reddy and Narsa Reddy Dairy Science College, Kalaburagi
8	Chess (Men)	Winner	Krishna Murthy, A., IAH&VB, Bengaluru
		Runner	Jagdesh, B., College of Fisheries, Mangaluru
9	Table Tennis Singles (Women)	Winner	Savitha, Veterinary College, Bidar
		Runner	Vijay Laxmi Sunagar, Veterinary College, Bengaluru
10	Shuttle Badminton Single (Women)	Winner	Vijay Laxmi Sunagar, Veterinary College, Bengaluru
		Runner	Mamta, J., Veterinary College, Bidar
11	Shuttle Badminton Double (Women)	Winner	Mamta, J. and Jyoti, Veterinary College, Bidar
		Runner	Bhanumathi, G.R. and Chaithra, V., Dairy Science College, Bengaluru





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The Valedictory function was organized on 27th December, 2017. Dr. R.V. Prasad, Hon'ble Vice-Chancellor, KVAFSU, Bidar, Sri. Nagbhushan Kamthane, Hon'ble Board of Management KVAFSU, Bidar, Sri. Mallikarjun Biradar, Hon'ble Board of Management KVAFSU, Bidar, Shri. Iresh Anchatergi, Hon'ble Board of Management KVAFSU, Bidar, Smt. Lumbini Goutami, Hon'ble Board of Management KVAFSU, Bidar, Participated as chief guest Dr. H. Shivananda Murthy, Registrar, KVAFSU, Bidar, Dr. Shivaprakash, S.M, Director of Extension, KVAFSU, Bidar, Dr. Nadeem Feroz, D.I.P.G.S, KVAFSU, Bidar, Dr. B.V. Shivaprakash, Director of Research, KVAFSU, Bidar, Shri. K.C.Suresh, Comptroller, KVAFSU, Bidar, Dr. M.M. Appannavar, Controller of Examination, KVAFSU, Bidar, Dr. U.S. Jadhav, Librarian, KVAFSU, Bidar, Shri. Ramappa, Estate Officer, KVAFSU, Bidar. Dr. Shivshanker, M. Usturge, O.S.D, Veterinary College, Athni. Participated as Guest and Dr. N.A. Patil, Dean, Veterinary College Bidar presided over the function.

KVAFSU INTER-COLLEGIATE TEACHERS' SPORTS MEET 2017-18

The Karnataka veterinary, Animal and Fisheries Sciences University, Bidar Inter-Collegiate Teachers' Sports Meet 2017-18 in men and women sections was hosted by College of Fisheries, Mangaluru during 12th & 13th January 2018.

Dr. R V Prasad, Hon'ble Vice Chancellor, KVAFSU, Bidar inaugurated the Sports Meet on 12.01.2018 in the presence Shri Nagabhushan Kamathane, Shri Iresh B Anchatergi, Smt. Lumbini Goutam, Dr. K Vekat Reddy (Hon'ble Members, Board of Management, KVAFSU, Bidar), Dr. H Shivananda Murthy, Registrar, KVAFSU Bidar, DR. Yeshawanth Kumar, DSW KVAFSU Bidar, Dr. S M Shivaprakash, DE KVAFSU Bidar and Dr. L Ranganath, Dean VC Hassan. Dr. M N Venugopal, Dean, College of Fisheries, Mangaluru presided over the function.

Around 90 teachers from 6 constituent colleges of KVAFSU, Bidar participated. The Colleges participated were Veterinary College, Bengaluru, Veterinary College, Bidar, Veterinary College, Shivamogga, Veterinary College, Hassan. Dairy Science College, Bengaluru, and College of Fisheries, Mangaluru.

Hon'ble guests released the ATKVAFSU Calendar for the year 2018. Dr. H.C. Indresh, President, ATKVAFSU and Dr. A.T. Ramachandra Naik, Secretary, ATKVAFSU present on the occasion

INTER-COLLEGIATE SPORTS MEET 2017-18 RESULTS

#	Name of Event	Secured Place	College
1	Table Tennis (Men) Singles	Winner	Wilfred Ruban, S., Veterinary College, Bengaluru
		Runner	Pramod, J.K., Veterinary College, Hassan
2	Table Tennis (Men) Doubles	Winner	Girisha, S.K. and Shivakumar, M., College of Fisheries, Mangaluru
		Runner	Wilfred Ruban, S. and Naveen Kumar, S., Veterinary College, Bengaluru
3	Table Tennis (Women) Singles	Winner	Lakshmisree, K.T., Veterinary College, Shivamogga
		Runner	Shanta, S. Betageri, Veterinary College, Bengaluru



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4	Table Tennis (Men) Doubles	Winner	Pragathi, K.S. and Lakshmisree, K.T., Veterinary College, Shivamogga
		Runner	Shanta, S. Betageri and Rashmi, R., College of Fisheries, Mangaluru
5	Badminton (Men) Singles	Winner	Giridhar, K.S., Veterinary College, Shivamogga
		Runner	Manoj Kumar, College of Fisheries, Mangaluru
6	Badminton (Men) Doubles	Winner	Girisha, S.K. and Shivakumar, M., College of Fisheries, Mangaluru
		Runner	Giridhar, K.S. and Nagaraj, S., Veterinary College, Shivamogga
7	Badminton (Women) Singles	Winner	Supreetha, B.U., College of Fisheries, Mangaluru
		Runner	Nidha, Veterinary College, Shivamogga
8	Badminton (Men) Doubles	Winner	Nidha and Triveni, T., Veterinary College, Shivamogga
		Runner	Supreetha, B.U. and Swathi, College of Fisheries, Mangaluru
9	Volleyball (Men)	Winner	Veterinary College, Hassan
		Runner	Veterinary College, Shivamogga
10	Cricket (Men)	Winner	Veterinary College, Hassan
		Runner	Veterinary College, Shivamogga
11	Chess	Winner	Kumar Naik, College of Fisheries, Mangaluru
		Runner	Malatesh, D.S., Veterinary College, Shivamogga
12	Carrom	Winner	Suresh, T. and Lashmisha, I.P., College of Fisheries, Mangaluru
		Runner	Malatesh, D.S. and Rudresh, Veterinary College, Shivamogga
13	Overall Championship	Winner	Veterinary College, Shivamogga
		Runner	College of Fisheries, Mangaluru

The valedictory function was held on 13.01.2018. Dr. H Shivananda Murthy, Registrar, KVAFSU, Bidar, Dr. Yashawanth Kumar, Director of Student Welfare, KVAFSU, Bidar, Dr. S M Shivaprakash, DE KVAFSU Bidar were chief guests and distributed prizes. Dr. H C Indresh, President ATKVAFSU and Dr. A T RamachandraNaik Secretary at KVAFSU present on the occasion. Dr. M N Venugopal, Dean, College of Fisheries, Mangaluru presided over the function.

XVIIIth ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2017-18

Karnataka Veterinary, Animal And Fisheries Sciences University, Bidar university team coaching camp for 18TH ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2017-18 held during 17th-28thJanuary, 2018 at KVAFSU Bengaluru Campus, Hebbal. Total of 61 selected players participated in the coaching camp. The List of players participated as listed below;





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#	Name of the Student	Name of the College	Sport/Game
1	Adarsh D Naik	Veterinary College, Hassan	Athletics
2	Prajwal R	Veterinary College, Hassan	Athletics
3	Harish K	College of Fisheries, Mangaluru	Athletics
4	Fayaz M	Dairy Science College, Hebbal, Bengaluru	Athletics
5	Mahaling Bhure	Veterinary College, Shivamogga	Athletics
6	Jaishree R C	Veterinary College, Hassan	Athletics
7	Ranjitha K P	Veterinary College, Hebbal, Bengaluru	Athletics
8	Viveka Gowda D P	Veterinary College, Hassan	Volleyball
9	Sidlingesh H K	Veterinary College, Shivamogga	Volleyball
10	Punith M Y	College of Fisheries, Mangaluru	Volleyball
11	Manoj Kumar K N	Dairy Science College, Hebbal, Bengaluru	Volleyball
12	Hemanth P	Veterinary College, Shivamogga	Volleyball
13	Bhimanand G K	Veterinary College, Shivamogga	Volleyball
14	Ajith Kumar L	Dairy Science College, Hebbal, Bengaluru	Volleyball
15	Sandeep	Veterinary College, Bidar	Volleyball
16	Deepak Ruhil	Veterinary College, Hebbal, Bengaluru	Basketball
17	Nithin Reddy P K	Veterinary College, Bidar	Basketball
18	Shiva Bhada Bhade	Veterinary College, Shivamogga	Basketball
19	Karthik Gowda V S	College of Fisheries, Mangaluru	Basketball
20	Anand V M	Veterinary College, Bidar	Basketball
21	Abhishek Y	Veterinary College, Hebbal, Bengaluru	Basketball
22	Darshan Banur B	Veterinary College, Hassan	Basketball
23	Salman R G	Veterinary College, Hebbal, Bengaluru	Basketball
24	Madhav Ajjodi	Veterinary College, Bidar	Badminton
25	Kaushik A H	College of Fisheries, Mangaluru	Badminton
26	Vijay Pratap Rajavarma P V	Dairy Science College, Hebbal, Bengaluru	Badminton
27	Sushma H R	Veterinary College, Hassan	Badminton
28	Chetana J R	College of Fisheries, Mangaluru	Badminton
29	Bhumika Kesanur	Veterinary College, Hebbal, Bengaluru	Basketball
30	Ayesha Farheen	College of Fisheries, Mangaluru	Basketball
31	Shamili VL	College of Fisheries, Mangaluru	Basketball
32	Sahana M P	Veterinary College, Bidar	Basketball
33	Thejaswini M P	Veterinary College, Hebbal, Bengaluru	Basketball
34	Vidhya Varsha S J	Veterinary College, Bidar	Volleyball & Basketball
35	Bhavanjali M R	College of Fisheries, Mangaluru	Volleyball
36	Prerana S J	Veterinary College, Hassan	Volleyball
37	Rohini S C	Veterinary College, Hassan	Volleyball
38	Manjulla R Hadimani	Veterinary College, Bidar	Volleyball
39	Soumya Hiremani	Veterinary College, Bidar	Volleyball
40	Amurutha D M	College of Fisheries, Mangaluru	Volleyball



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41	Jyothi M	Veterinary College, Shivamogga	Volleyball
42	Nirosha	College of Fisheries, Mangaluru	Kabaddi and Basketball
43	Varshitha P K	College of Fisheries, Mangaluru	Kabaddi and Basketball
44	Ku sumitha Rao	Veterinary College, Hebbal, Bengaluru	Kabaddi
45	Gauthami	Veterinary College, Shivamogga	Kabaddi
46	Kaveri K.G	Veterinary College, Hebbal, Bengaluru	Kabaddi
47	Roja C.K	Veterinary College, Hebbal, Bengaluru	Kabaddi
48	Lavanya	Dairy Science College, Hebbal, Bengaluru	Kabaddi
49	Laxmi	Dairy Science College, Hebbal, Bengaluru	Kabaddi
50	Yashaswini G T	Veterinary College, Hebbal, Bengaluru	Kabaddi
51	Kavya	College of Fisheries, Mangaluru	Kabaddi
52	Namurutha	College of Fisheries, Mangaluru	Athletics
53	Suchi Puttaraju	Veterinary College, Shivamogga	Athletics
54	Deepika J	Veterinary College, Bidar	Volleyball
55	Prajwal M N	Veterinary College, Hebbal, Bengaluru	Badminton
56	Shivaprasad Patil	Veterinary College, Hassan	Basketball
57	Prashanth K	Veterinary College, Hassan	Basketball
58	Harshitha K K	Veterinary College, Hassan	Basketball
59	Harshitha P P	Veterinary College, Hassan	Basketball
60	Karthik K S	Veterinary College, Hassan	Volleyball
61	Santhosh	Dairy Science College, Hebbal, Bengaluru	Basketball

On 23rd and 24th January, 2018 the final selection trials for university team held. Total of 50 players selected for the university team. The selected players list is as listed below;

#	Name of the Student	Name of the College	Sport/Game
1	Adarsh, D. Naik	Veterinary College, Hassan	Athletics
2	Prajwal, R.	Veterinary College, Hassan	Athletics
3	Harish, K.	College of Fisheries, Mangaluru	Athletics
4	Fayaz, M.	Dairy Science College, Hebbal, Bengaluru	Athletics
5	Mahaling Bhure	Veterinary College, Shivamogga	Athletics
6	Jaishree, R.C.	Veterinary College, Hassan	Athletics
7	Ranjitha, K.P.	Veterinary College, Hebbal, Bengaluru	Athletics
8	Viveka Gowda, D.P.	Veterinary College, Hassan	Volleyball
9	Sidlingesh, H.K.	Veterinary College, Shivamogga	Volleyball
10	Punith, M.Y.	College of Fisheries, Mangaluru	Volleyball
11	Manoj Kumar, K.N.	Dairy Science College, Hebbal, Bengaluru	Volleyball
12	Hemanth, P.	Veterinary College, Shivamogga	Volleyball
13	Bhimanand, G.K.	Veterinary College, Shivamogga	Volleyball
14	Ajith Kumar, L.	Dairy Science College, Hebbal, Bengaluru	Volleyball





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15	Sandeep	Veterinary College, Bidar	Volleyball
16	Deepak Ruhil	Veterinary College, Hebbal, Bengaluru	Basketball
17	Nithin Reddy, P.K.	Veterinary College, Bidar	Basketball
18	Shiva Bhada Bhade	Veterinary College, Shivamogga	Basketball
19	Karthik Gowda, V.S.	College of Fisheries, Mangaluru	Basketball
20	Anand, V.M.	Veterinary College, Bidar	Basketball
21	Abhishek, Y.	Veterinary College, Hebbal, Bengaluru	Basketball
22	Darshan Banur, B.	Veterinary College, Hassan	Basketball
23	Salman, R.G.	Veterinary College, Hebbal, Bengaluru	Basketball
24	Madhav Ajjodi	Veterinary College, Bidar	Badminton
25	Kaushik, A.H.	College of Fisheries, Mangaluru	Badminton
26	Vijay Pratap Rajavarma, P.V.	Dairy Science College, Hebbal, Bengaluru	Badminton
27	Sushma, H.R.	Veterinary College, Hassan	Badminton
28	Chetana, J.R.	College of Fisheries, Mangaluru	Badminton
29	Bhumika Kesanur	Veterinary College, Hebbal, Bengaluru	Basketball
30	Ayesha Farheen	College of Fisheries, Mangaluru	Basketball
31	Shamili, V.L.	College of Fisheries, Mangaluru	Basketball
32	Sahana, M.P.	Veterinary College, Bidar	Basketball
33	Thejaswini, M.P.	Veterinary College, Hebbal, Bengaluru	Basketball
34	Vidhya Varsha, S.J.	Veterinary College, Bidar	Volleyball and Basketball
35	Bhavanjali, M.R.	College of Fisheries, Mangaluru	Volleyball
36	Prerana, S.J.	Veterinary College, Hassan	Volleyball
37	Rohini, S.C.	Veterinary College, Hassan	Volleyball
38	Manjulla, R. Hadimani	Veterinary College, Bidar	Volleyball
39	Soumya Hiremani	Veterinary College, Bidar	Volleyball
40	Amurutha, D.M.	College of Fisheries, Mangaluru	Volleyball
41	Jyothi, M.	Veterinary College, Shivamogga	Volleyball
42	Nirosha	College of Fisheries, Mangaluru.	Kabaddi and Basketball
43	Varshitha, P.K.	College of Fisheries, Mangaluru	Kabaddi and Basketball
44	Kusumitha Rao	Veterinary College, Hebbal, Bengaluru	Kabaddi
45	Gauthami	Veterinary College, Shivamogga	Kabaddi
46	Kaveri, K.G.	Veterinary College, Hebbal, Bengaluru	Kabaddi
47	Roja, C.K.	Veterinary College, Hebbal, Bengaluru	Kabaddi
48	Lavanya	Dairy Science College, Hebbal, Bengaluru	Kabaddi
49	Laxmi	Dairy Science College, Hebbal, Bengaluru	Kabaddi
50	Yashaswini, G.T.	Veterinary College, Hebbal, Bengaluru	Kabaddi



RURAL ORIENTED & FARMER FRIENDLY

Our university team participated in the XVIIIth ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2017-18 at GKVK UAS Bengaluru Campus from 30th January to 3rd February 2018. The Team accommodated in the KVAFSU Hebbal Campus itself. Dr. Yashwanth Kumar, DSW, Mr. N.S. Somashekar, Assistant Professor, Veterinary College, Hebbal, Bengaluruas Team coordinator, Mr. Manoj Kumar, Assistant Professor, College of Fisheries, Mangaluru, Mr. SubrayyaParbh, Assistant Professor, Veterinary College,Hassan , Dr. Shiva Kumar, Assistant Professor(Cont Basis), Veterinary College, Bidar, Mr. Nagraj S, Assistant Professor(Cont Basis), Veterinary College, Shivamogga, Mr. Anand G, Assistant Professor(Cont Basis), Dairy Science College, Kalaburagi, Mr. Chandra Chooda M, Assistant Professor(Cont Basis), Dairy Science College, Bengaluru, accompanied as team managers.

Our students showed excellent performance in Basketball Men & Women, Athletics Men & Women, Kabaddi Women, Volleyball – Men and other games;

1. Basketball Women team won Silver Medal.(Won Five Rounds)
2. Basketball men team lost in Semifinals.(Won Four Rounds)
3. Volleyball men team lost in quarterfinals. (Won Three Rounds)
4. Kabaddi women team lost in semifinals. (Won Two Rounds)
5. Badminton men team lost in Semifinals(Won Four Rounds)
6. Volleyball women lost in Third round
7. Badminton women lost in first round.
8. Athletics
 - a. Miss Jayashri R C won bronze medal in Javelin Throw
 - b. Mr. Prajwal R bronze medal in Shot-put and attained 5th position in Discus Throw.
 - c. Mr. Adarsh D Naik attained 4th position in Shot-put
 - d. Mr. Karthik Gowda attained 4th position in High jump
 - e. Mr. Harisha K attained 5th position in 1500m and 800m
 - f. Mahalinga Bhure qualified for Semifinals

The proposed selection marks (8th position) for University Athletic Team Selection as listed below;

<i>Event</i>	<i>Men</i>	<i>Women</i>
1. 100m	11:70 Sec. Mud	14:50 Sec. Mud
2. 200m	24:50 Sec. Mud	29.00 Sec. Mud
3. 400m	55.5 Sec. Mud	1:15:00 Min Mud
4. 800m	2:15:00 Min Mud	3:00:00 Min Mud
5. 1500m	4:50:00 Min Mud	6:20:00 Min Mud
6. 5000m	19:00:00 Min Mud	-
7. Long Jump	5.85mts.	4.00mts
8. High Jump	1.60mts.	1.25mts
9. Triple Jump	12.00 mts.	8.50mts.
10. Shot-Put	10.50mts.	8.00mts
11. Discus Throw	30.00mts.	20.00mts
12. Javelin Throw	42.00 mts.	20.00mts

Mud – Mud Track / Cinder Track



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY, ANIMAL & FISHERIES SCIENCES UNIVERSITY

XVIIIth ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL, 2017-18

Karnataka Veterinary, Animal And Fisheries Sciences University, Bidar university team coaching camp for 18TH ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL, 2017-18 held during 29th January to 08th Febuary-2018 at KVAFSU Shivamogga Campus. Total of 22 selected student participants of different constituent colleges of KVAFSU in the coaching camp.

The following are the list of student participants from KVAFSU participated in 18th Agri-Unifest held from 12th to 16th February 2018 organized by Shri Venkateshwara Veterinary University, Tirupati.

#	Name	College	Class
1	Shaistha Firdose	Veterinary College, Hassan	IV Year
2	Ishitha Nair	Veterinary College, Hebbal, Bengaluru	I st Year
3	Prithvi	Veterinary College, Shivamogga	IV Year
4	Sugama S Nayak	Veterinary College, Hebbal, Bengaluru	III year
5	Eknath Mudholkar	Veterinary College, Shivamogga	IV Year
6	Manasa M	Veterinary College, Hebbal, Bengaluru	III year
7	Sheethal Kumar	Veterinary College, Shivamogga	IV Year
8	Chaitra Bai	Veterinary College, Hebbal, Bengaluru	II year
9	Shashank S	Veterinary College, Hassan	IV Year
10	Lavanya S	Dairy Science College, Hebbal, Bengaluru	II year
11	Sunil Nagappa Kodler	Veterinary College, Shivamogga	III Year
12	Manjunatha	Veterinary College, Hassan	IV Year
13	Madhu R	Veterinary College, Shivamogga	IV Year
14	Balana gouda	Veterinary College, Hebbal, Bengaluru	IV year
15	Ranjitha	Veterinary College, Hassan	III Year
16	Shashikumar S Matt	Veterinary College, Hassan	IV Year
17	Basavaraj M	Veterinary College, Hebbal, Bengaluru	II year
18	Shivadarshan Rathod	Veterinary College, Shivamogga	III Year
19	Sanu Chand D	Dairy Science College, Kalaburagi	II Year
20	Shashi kiran D	Veterinary College, Bidar	Ist Year
21	Shwetha	Veterinary College, Bidar	II Year
22	Sushmitha	Dairy Science College, Kalaburagi	II year





RURAL ORIENTED & FARMER FRIENDLY

Our university team participated in the XVIIIth ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL, 2017-18 at Shri Venkateshwara Veterinary University, Thirupati from 12th to 16th February 2018. The Team managers Dr. Madhusudhan, H.S. and Dr. Sundaresan, student participants and the event artists as accompanists were started their journey on 09.02.2018 to participate in 18th Agri-Unifest organized by Shri Venkateshwara Veterinary University, Thirupati from Shivamogga via Bengaluru and reached on 10.02.2018 by 2.30PM. The students participated in all the events conducted during 18th Agri-Unifest.

The students participated in the cultural events with lot of enthusiasm and preparation. Prizes were also announced for our university team in the events;

1. Group Dance (2nd Place)
2. One-Act-Play (2nd Place)
3. Skit (2nd Place)
4. Rangoli (1st Place)

Mr. Basavaraj, M., II year B.V.Sc. student participated in group dance, one-act-play and skit. The prize was awarded only to Miss Manasa for the Rangoli event.



RURAL ORIENTED & FARMER FRIENDLY
KARNAKA VET AGRICULTURE & FISHERIES UNIVERSITY
BIDAR

8) National Service Scheme (NSS)

NATIONAL SERVICE SCHEME, KVAFSU, Bidar

1. NSS Advisory Committee Meeting of University: The meeting of NSS Advisory Committee of the university was held on 28-08-2017 in the Board Room of Administrative Block, KVAFSU, Bidar. The meeting was chaired by Dr. R.V. Prasad, Hon'ble Vice-Chancellor of the university as well as the Chairman of NSS Advisory Committee of the university. The meeting was attended by NSS Programme Coordinator, the Deans of constituent colleges, University Officers, NSS programme officers of constituent NSS units and student representatives. Shri D.Carthigueane, Youth Officer, NSS Regional Directorate, Bengaluru attended the meeting. Dr. Shrikant Kulkarni, NSS Programme Co-ordinator, KVAFSU, Bidar highlighted the NSS regular and special camp activities of the university for the year 2016-17. Thereafter, NSS Programme Officers of all the constituent colleges presented the NSS regular and special camp activities carried out under their respective NSS units for the year 2016-17 and also the action plan for the year 2017-18.

Allotment of volunteer strength for the year 2017-18: The following numbers NSS volunteers were allocated to NSS units of constituent colleges.

#	Name of the college	Volunteer Strength	
		Unit I	Unit II
1	Veterinary College, Bengaluru	100	100
2	Veterinary College, Bidar	100	100
3	Veterinary College, Shivamogga	70	70
4	Veterinary College, Hassan	70	70
5	Veterinary College, Gadag	50	--
6	College of Fisheries, Mangaluru	100	--
7	Dairy Science College, Bengaluru	100	--
8	Dairy Science College, Kalaburagi	70	--
	Total	660	340

1. Participation of NSS Volunteers in State level/ National level events:

- a. State Level NSS Youth Festival: The university team consisting of following NSS Volunteers participated in the State Level Youth Festival organized by Dr. G. Shankar Govt. First Grade College for Women, UDUPI from 18.08.2017 to 22.08.2017.

#	Name	Class	College
1	Prashant,R.G.	IV B.V.Sc & A.H.	Veterinary College, Bidar
2	Shweta	III B.V.Sc & A.H.	Veterinary College, Bidar
3	Vijaya Mahantesh, S.K.	III B.V.Sc & A.H.	Veterinary College, Bidar
4	Priyanka	II B.V.Sc & A.H.	Veterinary College, Bidar
5	Monica, M.	II B.V.Sc & A.H.	Veterinary College, Hassan
6	Poornima	II B.V.Sc & A.H.	Veterinary College, Hassan
7	Shilpa, S.	II B.V.Sc & A.H.	Veterinary College, Hassan



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KARNATAKA VETERINARY AGRICULTURAL & FISHERIES SCIENCES UNIVERSITY

8	Swaroop, R.	II B.V.Sc & A.H.	Veterinary College, Hassan
9	Harshitha, K.	III B.Tech (D.Tech)	Dairy Science College, Bengaluru
10	Monica, N.M.	III B.Tech (D.Tech)	Dairy Science College, Bengaluru
11	Likith, H.D.	III B.Tech (D.Tech)	Dairy Science College, Bengaluru
12	Sharath, S.	III B.Tech (D.Tech)	Dairy Science College, Bengaluru
13	Kavya, K.M.	III B.F.Sc	College of Fisheries, Mangaluru
14	Chetana, J.R.	III B.F.Sc	College of Fisheries, Mangaluru
15	Joel Rimson Pinto	III B.F.Sc	College of Fisheries, Mangaluru
16	Sachin	III B.F.Sc	College of Fisheries, Mangaluru
Team Manager: Dr. A.T. Ramachandra Naik, NSS Programme Officer, College of Fisheries, Mangaluru			

- a. Republic Day Camp: The following NSS volunteers from Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar will be participating in the pre-RD camp held at University of Agricultural Sciences, GKVK, Bengaluru during 3.10.2017 to 6.10.2017.

#	Name	Class	College
1	Amrutha, N.G.	II B.V.Sc & A.H.	Veterinary College, Bengaluru
2	Manikanta, A.N.	II B.V.Sc & A.H.	Veterinary College, Bengaluru
3	Monica, M.	II B.V.Sc & A.H.	Veterinary College, Hassan
4	Ashritha, B.	II B.Tech (D.Tech)	Dairy Science College, Kalaburagi
5	Sharath, D.L.	II B.Tech (D.Tech)	Dairy Science College, Kalaburagi
6	Bindiya, J.	II B.F.Sc	College of Fisheries, Mangaluru
7	Vishal, V.P.	II B.F.Sc	College of Fisheries, Mangaluru

Mr. Manikanta, A.N. and Ms. Monica, M. were selected for the South Zone Pre-Republic Day Parade Camp held at NSS Regional Directorate, Kerala during 1.11.2017 to 10.11.2017.

Ms. Monica, M., Veterinary College, Hassan was selected for State Republic Day Camp and she participated in Republic Day Parade held at Menek Shah Parade Ground, Bengaluru on 26.01.2018.

- a. National Integration Camp: The following NSS volunteers participated in the National Integration Camp held at Kuvempu University, Shivamogga during 02.03.2018 to 08.03.2018.

#	Name	Class	College
1	Sharath, S.	III B.Tech (D.Tech)	Dairy Science College, Bengaluru
2	Vamshikrishna	III B.Tech (D.Tech)	Dairy Science College, Bengaluru
3	Girish, D.T.	II B.V.Sc & A.H.	Veterinary College, Shivamogga
4	Thresia Thomar Kappen	II B.V.Sc & A.H.	Veterinary College, Shivamogga
5	Mohan Babu, D.A.	II B.V.Sc & A.H.	Veterinary College, Hassan
6	Meghana, M.	II B.V.Sc & A.H.	Veterinary College, Hassan
7	Deepa, P.	II B.V.Sc & A.H.	Veterinary College, Bidar
8	Shweta	II B.V.Sc & A.H.	Veterinary College, Bidar

Team Manager: Dr. Rudresh, B.H., NSS Programme Officer, Veterinary College, Shivamogga



RURAL ORIENTED & FARMER FRIENDLY

The following NSS volunteers participated in the National Integration Camp held at Gulbarga University, Kalaburagi in the university campus from 13.03.2018 to 19.03.2018.

#	Name	Class	College
1	M.A. Baseer	II B.V.Sc & A.H.	Veterinary College, Bidar
2	K.R. Pradyumn Devaiah	II B.V.Sc & A.H.	Veterinary College, Bidar
3	Satish	I B.Tech (D.Tech)	Dairy Science College, Kalaburagi
4	Veerabhadragouda	I B.Tech (D.Tech)	Dairy Science College, Kalaburagi

1. Meeting/Training Attended:

- a. Dr. Shrikant Kulkarni, Programme Coordinator attended the “State Level NSS Programme Coordinators Meet” at NSS Regional Directorate, Bengaluru on 25.07.2017 and presented the NSS activities of the university for the year 2016-17.
- b. Dr. Rajanna M, NSS Programme Officer, Dairy Science College, Bengaluru represented the university in the State Level NSS Advisory Committee Meeting held on 07.12.2017 at Vikash Soudha, Bengaluru
- c. The following NSS Programme Officers attended the training programme at NSS Empanelled Training Institute, Mysuru.

#	Name	Designation	Date
1	Dr. D.T. Naik	NSS Programme Officer (Unit I) Veterinary College, Bidar	1 st - 7 th Sep, 2017
2	Dr. Satishchandra Biradar	NSS Programme Officer (Unit II) Veterinary College, Bidar	1 st - 7 th Sep, 2017
3	Dr. Guruprasad, R.	NSS Programme Officer Veterinary College, Hassan	1 st - 7 th Sep, 2017
4	Dr. Pradeep Chawan	NSS Programme Officer Veterinary College, Gadag	6 th -12 th Mar, 2018

1. NSS Annual Special Camp: The details of the NSS Annual Special Camp organized by different constituent colleges are given below;

#	Name of the college	Place of Camp	Date
1	College of Fisheries, Mangaluru	Badaga Edapadavu Village, Mangaluru (Taluk), Dakshin Kannada (Dist.)	11-17 th November, 2017
2	Dairy Science College, Kalaburagi	Dongargaon Village, Kalaburagi (Taluk), Kalaburagi (Dist)	16-22 nd January, 2018
3	Dairy Science College, Bengaluru	Doddatumakuru village, Doddaballapura taluk (Tq), Bengaluru Rural (Dist)	1 st to 7 th Feb 2018
4	Veterinary College, Bidar	Malegaon Village, Bidar (Taluk), Bidar (Dist)	23 rd February to 1 st March, 2018
5	Veterinary College, Bengaluru	Doddaluvara Village, Somavarapete (Taluk), Kodagu (Dist)	19-25 th March, 2018
6	Veterinary College, Shivamogga	Sogane Village, , Shivamogga (Taluk), Shivamogga (Dist)	19-25 th March, 2018
7	Veterinary College, Hassan	Kommanahalli, Dudda Hobli, Hassan (Taluk), Hassan (Dist)	24-30 th March, 2018





RURAL ORIENTED & FARMER FRIENDLY

KARNATAKA VETERINARY AGRICULTURE & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

1. NSS Regular activities: In addition to weekly shramadhan in terms of cleaning of campuses, plantation of trees, watering the plants, following are the some of the important events organized under “NSS Regular Activities” by different colleges :

#	Date	Event
VETERINARY COLLEGE, BENGALURU		
1	18.08.2017	Sadhbhavana Diwas was celebrated
2	24.09.2017	International Youth Day and NSS Foundation Day was celebrated
3	31.10.2017	Rashtriya Ekatha Divas was celebrated and administered Ekatha Pledge to all the staff and volunteers of NSS as well as students.
4	22 nd and 29 th Nov, 6 th , 13 th and 27 th Dec., of 2017	The peace education programme has been conducted for NSS volunteers on these days at Veterinary College, Hebbal, Bengaluru. Mrs.Jyoti Singh was resource person throughout the programme. This programme was a media based educational programme created by the Prem Rawat Foundation
VETERINARY COLLEGE, BIDAR		
1	18.08.2017	Sadhbhavana Diwas was celebrated
2	11.09.2017	A lecture on “Debit card usage and its benefits to villagers” was organized
3	13.10.2017	World Egg day was celebrated
4	31.10.2017	Rashtriya Ekatha Divas was celebrated and administered Ekatha Pledge to all the staff and volunteers of NSS as well as students.
VETERINARY COLLEGE, SHIVAMOGGA		
1	18.08.2017	Sadhbhavana Diwas was celebrated
2	24.09.2017	NSS Foundation Day was celebrated
3	02.10.2018	Gandhi Jayanti was celebrated
4	31.10.2017	Rashtriya Ekatha Divas was celebrated and administered Ekatha Pledge to all the staff and volunteers of NSS as well as students
VETERINARY COLLEGE, HASSAN		
1	21.06.2017	International Yoga Day was celebrated
2	1-15 th Aug., 2017	Swachhata Pakhwada (Swachhata Fortnight) was observed
3	15.08.2017	In commemoration of the 75 th Anniversary of the Quit India movement, “Sankalp Se Siddhi” pledge was administered
4	25.09.2017	A voluntary Blood Donation Camp was organized
5	25.09.2017	International Youth Day and NSS Foundation Day was celebrated
6	13.10.2017	In collaboration with Hasiru Bhoomi Pratishtana, Hassan, planting of trees was carried out on 13.10.2017. Assistant Commissioner Sri. H. L. Nagaraju took part in the event along with volunteers of the trust, Students, Staff and NSS volunteers
7	31.10.2017	Rashtriya Ekatha Divas was celebrated on followed by an Awareness Rally. The Dean inaugurated the rally and administered Ekatha Pledge to all the staff and volunteers of NSS as well as students.
DAIRY SCIENCE COLLEGE, BENGALURU		
1	01.06.2017	World milk Day was celebrated. NSS volunteers conducted “Jatha programme” to create awareness about the importance and nutritional aspects of milk and milk products



RURAL ORIENTED & FARMER FRIENDLY



2	05.06.2017	World environmental day was celebrated by planting and watering the plants in the premises of the campus
3	21.06.2017	International yoga Day was celebrated
4	22.11.2017	Dental Health Camp was organized in association with Rajiv Gandhi Medical and Dental Science College, Hebbal
5	26.11.2017	National Milk Day was celebrated
DAIRY SCIENCE COLLEGE, KALABURAGI		
1	18.08.2017	Sadhbhavana Diwas was celebrated
2	24.09.2017	NSS Foundation Day was celebrated
3	31.10.2017	Rashtriya Ekatha Divas was celebrated and administered Ekatha Pledge to all the staff and volunteers of NSS as well as students. Trees were planted on this occasion
4	22.03.2018	Personality development programme was organized for the NSS volunteers. Dr Vijayachandra Reddy and Dr. Mahesh Patil of College of Agriculture, Kalaburagi were the resource persons
COLLEGE OF FISHERIES, MANGALURU		
1	05.06.2017	World Environment Day was celebrated. On this occasion, sapling of flower and fruit yielding plants were done in the campus
2	05.06.2017	World Ocean Day was celebrated. On this occasion, workshop on the themes ‘Connecting People to Nature’ and ‘Our Oceans, Our Future’ were organized
3	21.06.2017	International Yoga Day was celebrated. One week “Yoga Camp – 2017” was also organized for the benefit of staff and students of the college from 21 to 27 June, 2017. Mr. Govindaraya Prabhu was the Yoga teacher for the training programme
4	03.12.2017	Agricultural Education Day was celebrated. The prime objective of the celebration was mainly to expose school students to various facets of agriculture and its relevance to country’s development. A quiz competition was conducted for the participants from various schools and college of Dakshina Kannada dist
5	01.02.2018	One day workshop on ‘Road Safety and Its Awareness’ was organized



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERINARY AGRICULTURE & FISHERIES COLLEGE
BIDAR

9) Other co-curricular activities

VETERINARY COLLEGE, BIDAR

#	Date	Activity
University Level Jayanti Celebrations and important programmes of College		
1	14.04.2017	Dr. B. R. Ambedkar Jayanti was celebrated at Veterinary College, Bidar. Dr. Prithviraj Lucky (Social Worker, Bidar) and Shri. Chandrakant Poste (Retd. Assistant Director, Land Records, Bidar) were the guest speakers of the programme. Smt. Lumbini Goutam, Member of Board of Management, KVAFSU, Bidar was chief guest. Dr. B.V.Shivaprakash, Dean of the college presided over the function. All the university officers, staff and students of the college actively participated in the programme. Shri Ramesh Badiger presented welcome speech and Dr. Ravindar Dombar proposed vote of thanks. Dr. Shrikant Kulkarni, Staff Advisor was the master of ceremony.
2	29.04.2017	World Veterinary Day was celebrated. On this occasion free anti-rabies vaccination camp was organized in which about 50 dogs were vaccinated. M/s. Virbac India Pvt. Limited conducted essay and quiz competitions for the students and prizes were distributed to the winners.
3	29.04.2017	Sri Basaweshwar Jayanthi was celebrated. Smt. Jayashree Sukale (President, Kannada Sahitya Parishat, Women unit) and Shri. Rajendrasingh Pawar (Renowned Musician) was the guest speakers of the programme. Shri. Jagannath Nyanikere and team presented "Vachana Sangitotsava" on this auspicious occasion. Dr. B.V.Shivaprakash, Dean of the college presided over the function. All the university officers, staff and students of the college actively participated in the programme. Shri S. Nagendra presented welcome speech and Dr. Channappagouda Biradar proposed vote of thanks. Dr. Shrikant Kulkarni, Staff Advisor coordinated the programme.
4	11.09.2017	The students were facilitated to view Hon'ble Prime Minister Sri. Narendra Modiji's address at 10.30 AM on the occasion of Pandit Deendayal Upadhyaya's Centenary Celebration and 125 th Anniversary of Swami Vivekananda's address at Chicago World Parliament of Religions. The theme of programme was "Young India, New India- A Resurgent Nation: from Sankalp to Sidhi".
5	06.11.2017	Bhakta Shreshta Shri Kanakadas Jayanti was celebrated at Veterinary College, Bidar. Members of Board of Management of the university viz., Mr. Nagabhushan Kamathane, Mr. Mallikarjun Biradar and Smt. Lumbini Goutam were the guests of the function. Dr. N A Patil, Dean of the College presided over the function. Officers of the university Dr. S.M.Usturge, Mr. K.L.Suresh and Mr. Ramappa Korwar graced the occasion.
6	14.11.2017	33 rd Foundation Day of Veterinary College, Bidar was celebrated, 2017. Dr. Y. HariBabu, Hon'ble Vice-Chancellor of Sri Venkateshwara Veterinary University, Tirupati inaugurated the programme. Dr. R.V.Prasad, Hon'ble Vice-Chancellor of KVAFSU, Bidar was chief guest of the function. Members of Board of Management of the university viz., Mr. Nagabhushan Kamathane, Mr. Mallikarjun Biradar, Smt. Lumbini Goutam and Mr. Iresh Anchatageri; Dr. S. G. Yalgod, President, Karnataka Veterinary Association graced the occasion. Dr. N. A. Patil, Dean of the college presided over the function. All the officers of the university, teaching and non-teaching faculty of college and the university, students attended the function.



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कृषी नियन्त्रित एवं कृषी समर्पित

7	21.02.2018	Hostel day "URDHWA" was celebrated on 21.02.2018 in the Veterinary College Hostel. Shri. Nagabhushan Kamathane, Member of Board of Management of the university and Dr. Yashwantkumar, Director of Students' Welfare of the university were chief guests of the function. Dr. N A Patil, Dean of the college presided over the function. Dr. Shrikant Kulkarni (Staff Advisor), Mr. S M Kartikesh (Chief Warden), Dr. Satishchandra Biradar (Warden) and Mr. Neelesh Topare (General Secretary of Hostel) graced the function. Various cultural events were presented by the students.
Student Co-Curricular and Extra Curricular Activities		
9	02.12.2017 to 16.12.2017	South India Educational Tour of 14 days for Third Year B.V.Sc & A.H. students was conducted. Dr. Prashant Waghe and Dr. Ravindra Dombar accompanied the students as Tour Leaders.
10	14.12.2017 to 03.01.2018	North India Educational Tour of 21 days for Final Year B.V.Sc & A.H. students was conducted. Dr. Vijay Kumar M and Dr. Bhagawantappa B accompanied the students as Tour Leaders.
11	04.12.2017	Mr. Kiran Kumar and Mr. T. Sai Kumar of II Year B.V.Sc & A.H., participated in the South Zone Veterinary Physiology Quiz – 2017, held at Veterinary College Hebbal, Bengaluru.
12	16.01.2018	University level debate competition sponsored by Karnataka State Co-operative Federation Limited Bengaluru was held at Veterinary College, Bidar. Ms. Deepa of II Year and Mr. Shashikiran of I Year B.V.Sc & A.H. participated in the event. Ms. Deepa won the first prize and was selected to represent the university at State level competition.
13	30.01.2018 to 03.02.2018	Ms. Vidyavarsha, Ms. Manjula Hadimani, Ms. Sahana Patil, Ms. Soumya, Mr. Madhav, Mr. Anand, Mr. Sandeep and Mr. Nitin of the college represented KVAFSU University team in 18 th All India Agri Sports Meet (2017-18) held at University of Agricultural Sciences, Bengaluru.
14	12.02.2018 to 16.02.2018	Mr. Shashikiran of I B.V.Sc & A.H. and Ms. Shwetha of III B.V.Sc & A.H. represented KVAFSU University team in 18 th All India Inter Agricultural Universities Youth Festival "AGRI UNIFEST 2018" held at Sri Venkateswara Veterinary University, Tirupati.
15	26.02.2018 to 03.03.2018	A special coaching class to UG students for ICAR-JRF/SRF Entrance Examination was conducted.
16	02.03.2018 to 08.03.2018	Ms. Deepa P, II Year B.V.Sc & A.H and Ms. Shweta of III Year B.V.Sc & A.H., represented KVAFSU University team in National Integration Camp of NSS held at Kuvempu University, Shivamogga.
17	13.03.2018 to 19.03.2018	M A Baseer and K R Pradyumn Devaiah of II Year B.V.Sc & A.H., represented KVAFSU University team in National Integration Camp of NSS held at Gulbarga University, Kalaburagi in the university campus.



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VETERINARY COLLEGE, HASSAN

Rashtriya Ekta Diwas (National Unity Day)-2017

The birth anniversary of Sardar Vallabhbhai Patel, the first Home Minister of Independent India was celebrated as Rashtriya Ekta Diwas (National Unity Day) on October 31 at Veterinary College, Hassan. Prof. L. Ranganath, Dean, Veterinary College, Hassan gave unity pledge to all the students and staff of the college. Further, 'Run for Unity' rally was held in main streets of Hassan city by students of Veterinary College, Hassan.

Agricultural Education Day-2017

Agricultural Education Day-2017 was celebrated in the memory of Dr. Rajendra Prasad at Veterinary College, Hassan on 06-12-2017. To sensitize the school children towards livestock rearing and agriculture tradition the college was thrown open for one day mainly for high school students of the Hassan city. A movie show was organized for high school students highlighting the importance of veterinary education, different facilities available at Veterinary College, Hassan and career opportunities in the field of veterinary and animal sciences. Nearly 900 high school students of Hassan city actively participated in Livestock Exhibition.

VETERINARY COLLEGE, GADAG

#	Date	Activity
1	28.02.2018	Celebrated Freshers day (Ankura) at VCG with Hon'ble Vice Chancellor as Chief Guest and Director, GIMS as Special Invitee and Dean as a President of the function. As a part of this function students had actively participated in various cultural activities.
2	15.03.2018 to 16.03.2018	32 students of I B.V.Sc & AH have participated in multicultural fest "GOONJ-2018" at Gadag Institute of Medical Sciences, Gadag

DAIRY SCIENCE COLLEGE, BENGALURU

#	Date	Place	Activity
1	01.06.2017	Hebbal, Bengaluru	Lecture on importance of nutritional aspects and overall impact of milk and milk products
2	05.06.2017	Hebbal, Bengaluru	Planting and watering the plants on the premises of the College campus
3	21.06.2017 to 22.06.2017	Hebbal, Bengaluru	Yoga sessions including pranayama, Suryanamaskara, meditations, importance of mudras, general health consciousness etc, were conducted for the staff and students



RURAL ORIENTED & FARMER FRIENDLY
DARSHAKA SODHAKA VIKASAKARA KALABURAGI

DAIRY SCIENCE COLLEGE, KALABURAGI

#	Date	Activity
1	16.01.2018 to 25.01.2018	RDWE Camp organized by Dr. Sharangouda B, Associate Professor and Head Dairy Technology Dept. from 16.01.2018 to 25.01.2018 at Dongaragaon village Tq. & Dist. Kalaburagi
2	06.07.2017 to 22.07.2017	READY program organized by Dr. Sharangouda B, Associate Professor and Head Dairy Technology Dept. from 6 th to 22 nd July 2017

COLLEGE OF FISHERIES, MANGALURU

#	Date	Activity
1	21.06.2017	International Yoga Day was celebrated followed by a 1 week free yoga camp for staff and students of the college. Sri. Jnaneswar Nayak, Incharge of Patanjali Yoga Samithi for Karnataka state was the chief guest. Sri. Govindaraya Prabhu, certified yoga trainer from the Patanjali Yoga Peeta, conducted the yoga classes
2	14.09.2017	Teacher's day was celebrated as a combined event of staff and students. Principal, University College, Mangaluru, Dr M. A. Udayakumar was the chief guest
3	27.10.2017	The tradition of welcoming the freshers into the fishco family 'Fresher's Day' was organized by the outgoing final year B. F. Sc students. Dr S. M. Shivaprakash, Director of Extension, KVAFSU was the chief guest.
4	04.01.2018 to 11.01.2018	A cultural fest was organized for 2 days for the students. An ethnic day was celebrated on 11 th in which the staff and students were dressed in traditional attire
5	15.03.2018	The Women Grievance Redressal Cell of the College of Fisheries, Mangaluru organized the International Women's Day "SAAGARAKANYA- 2018" at College of Fisheries, Mangaluru. Prof. Hilda Rayappan, the founder President and Director of Prajna Counselling Centre, Mangaluru was the chief guest
6	04.10.2017 to 06.10.2017	The Fisheries students participated in the inter-collegiate youth festival a 3 day event from at Veterinary College, Shivamogga. Miss. Poornashree from I st B.F.Sc. won first place in Kannada debate and second place in Kannada extempore
7	12.02.2018	II B.F.Sc students enacted the play "Sattavaru Helianthe" written by Dr. Shivakumar Magada and Directed by Mr. Yogeesh, Mangaluru which the won third place in Drama competition organized by Rangayana, Mysuru at Shree Bharathi College, Nanthoor, Mangaluru

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMAKURU

#	Date	Activity
1	14.04.2017	Celebration of Dr. B.R Ambedkar Jayanthi
2	30.04.2017	Celebration of World Veterinary Day
3	05.06.2017	Celebration of Environment Day
4	15.08.2017	Celebration of Independence day



RURAL ORIENTED & FARMER FRIENDLY
KARNAKA STATE AGRICULTURE & FISHERIES COLLEGE
DORNALLY-YADGIR

5	05.09.2017	Celebration of Teachers Day
6	02.10.2017	Celebration of Gandhi Jayanthi
7	01.11.2017	Celebration of Karnataka Rajyotsava.
8	10.11.2017	Celebration of First Year Students Welcome Party
9	14.11.2017	Celebration of Children's Day
10	01.12.2017	Celebration of World AIDS Day
11	26.01.2018	Celebration of Republic Day

ANIMAL HUSBANDRY POLYTECHNIC, DORNALLY-YADGIR

#	Date	Activity
1	08.12.2017 to 11.12.2017	Krishi Mela
2	04.01.2018	Farmers meet
3	04.03.2018 to 06.03.2018	Training to farmer regarding dairy farming
4	07.03.2018 to 09.03.2018	Training on rearing of Sheep and Goat
5	25.01.2018	Field demonstration
6	06.02.2018	Field demonstration

FISHERIES RESEARCH & INFORMATION CENTER, ANKOLA-UTTARA KANNADA

- * Ambedkar Jayanti was Celebrated at FRIC(M), Ankola on 14.04.2017 and Dr. Chandrakant Lingadhal, Assistant Professor and Head addressed the staff on occasion.
- * Basava Jayanti was Celebrated at FRIC(M), Ankola on 29.04.2017 on occasion Dr. Chandrakant Lingadhal, Assistant Professor and Head addressed the staff of FRIC(M), Ankola.
- * Dr. Chandrakant Lingadhal explained Centers activities and shrimp culture practices to Diploma students of Diploma Agriculture College, Kumta on 26.05.2017 (27 students visited the Centre).
- * Independence Day was Celebrated at FRIC(M), Ankola on 15.08.2017 and Dr. Chandrakant Lingadhal, Assistant Professor and Head spoke on contribution freedom fighters for India independence.
- * Gandhi Jayanti was Celebrated at FRIC(M), Ankola on 02.10.2017 and Dr. Chandrakant Lingadhal, Assistant Professor and Head addressed the staff on occasion. Staff members of FRIC(M), Ankola were participated in the campus cleaning programme as part of Gandhi Jayanti celebration.
- * Valmiki Jayanti was celebrated at FRIC(M), Ankola on 05.10.2017 and Dr. Chandrakant Lingadhal, Assistant Professor and Head spoke on Valmiki and his contribution.



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- * Kanaka Jayanti was celebrated at FRIC(M), Ankola on 06.11.2017 and Dr. Chandrakant Lingadhal, Assistant Professor and Head addressed the staff on occasion .
- * Dr. Chandrakant Lingadhal handling the course entitled “Meenu Sakanike” for Diploma Agri students at College of Diploma in Agriculture, Kumta from 29.01.2018 to 23.06.2018.
- * Dr. Chandrakant Lingadhal explained Centers activities and shrimp culture practices to MPEDA, Karwar trainees on 26.10.2017 (20 trainees visited the Centre).
- * Dr. Chandrakant Lingadhal served as Vice-President of organizing committee, member of other committees of Mega Matsya Mela-2018, Vijayapura organized by FRIC(I), Bhutnal, Vijayapura.
- * Information and guidance provided to SSLC students for project work.

<i>Sl.No</i>	<i>Name of the student and School</i>	<i>Date of Visit</i>	<i>Explanation & Information provided</i>
1	Mr. Gururaj Umesh Naik P.M High School, Ankola	11.12.2017	Environmental friendly brackish water fish culture
2	Mr. Monish Ashok Naik PM High School, Ankola	18.12.2017	Better Management practices in shrimp farming
3	Mr. Sameer Sadik Shaikh PM High School, Ankola	18.12.2017	Better Management practices in shrimp farming
4	Mr. Manoj Shankar Gouda PM High School, Ankola	18.12.2017	Fresh water prawn farming
5	Mr. Shahil Manoj Ankolekar PM High School, Ankola	18.12.2017	Fresh water prawn farming
6	Mr. Ganesh Shivanand Naik PM High School, Ankola	18.12.2017	Environmental friendly brackish water fish culture
7	Mr. Suhas D Naik PM High School, Ankola	18.12.2017	Environmental friendly brackish water fish polyculture.
8	Mr. Raguveer R Naik PM High School, Ankola	18.12.2018	Environmental friendly brackish water fish polyculture
9	Mr. Sumant Anil Naik PM High School, Ankola	21.12.2017	Better Management practices in shrimp farming
10	Mr. Suraj V Naik PM High School, Ankola	21.12.2017	Better Management practices in shrimp farming



RURAL ORIENTED & FARMER FRIENDLY
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BIDAR

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

<i>Dept.</i>	<i>Title</i>	<i>Funding Agency</i>	<i>Budget (in lakhs)</i>	<i>Yr. of Comt.</i>	<i>Yr. of Compl</i>	<i>Principal Investigator</i>
VETERINARY COLLEGE, BENGALURU						
AGB	Characterization of Bidri and Nandidurga goats of Karnataka	NBAGR, Karnal	29.50	2016	2018	Yathish, H.M.
AGB	Genetic characterization of Mudhol breed of dog using microsatellites	KVAFSU	0.50	2016	2017	M.R. Jayashankar
VAHE	Development and Evaluation of Use of Mobile application for Cattle Farming: A New Generation Technology Transfer for Sustainable Dairy Production	ICAR	9.20	2016	2017	K. Satyanarayan
VAHE	Dairy farmers knowledge, perception and adaptation measures towards climatic variability – An exploratory study in Karnataka	KVAFSU	0.30	2016	2018	V. Jagadeeswary
ANN	Effect of strategic supplementation of zinc on growth performance of lambs.	KVAFSU Bidar	0.50	2016	2018	Umashankar, B.C.
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	2018	Y.B. Rajeshwari





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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/ Staff Research Project	0.5	2016	2018	Mahadevappa
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	2018	Y.B. Rajeshwari
VMC	Evaluation of inactivated <i>Mycobacterium avium</i> subspecies paratuberculosis (MAP) vaccine in sheep	SCST/TSP Grants	1.0	January 2017	2017	D. Rathnamma
VPA	A study on Hepatointestinal Schistosomosis in cattle	KVAFSU	0.25	2016	2018	H.Dhanalakshmi
VPP	Studies on clinico-pathology and molecular diagnosis of Paratuberculosis in small ruminants	SC-SP grants, Govt. of Karnataka	1.00	2016	2017	H.D. Narayanaswamy
VPT	Milk depletion profile of meloxicam in dairy cattle following therapeutic administration	Research carried out with available resources in the dept.	-	2017	2018	N. Prakash
PSc	Performance of Commercial broilers supplemented with Processed Organic waste	BIONAR, Bengaluru	1.37	2016	2017	Malathi, V.



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KARNAKA
VET COLLEGE

VPH	Studies on prevalence of <i>Arcobacter sp.</i> (Emerging food-borne pathogen) in foods of animal origin	KVAFSU, Bidar	-	2016	2018	Mohan, H.V.
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VETERINARY COLLEGE, BIDAR

VMC	Efficacy testing of Goat Pox Vaccine in Goats.	Indian Immunologicals, Hyderabad	2.25	2015	2016	Basawaraj Awati
VMC	Study on safety and immunogenicity of Brucella Rev-1 vaccine through subcutaneous and conjunctival routes in sheep and goats.	Indian Immunologicals, Hyderabad	1.20	2016	2017	Basawaraj Awati

VETERINARY COLLEGE, SHIVAMOGGA

VAN	Development of Scaffold Technology for Industrial Progress, Societal Benefit and Environmental Safety	BIRAC	1.00	2016	2018	R.V. Prasad
LPM	Supplementation of L-Threonine for Optimization of Dietary Crude Protein Levels in Broiler diets	KVAFSU	0.40	2016	2017	Krishnamurthy, T.N.
VPP	A Systematic documentation of the pathological conditions in captive wild animals in and around Shivamogga	KVAFSU	0.60	2014-15	2017-18	Kavitha Rani, B.

VETERINARY COLLEGE, HASSAN

AGB	Herd Registration and Field Performance Recording in Amrithmahal Cattle	KLDA	41.33	2014	2018	G.S. Naveen Kumar
VMC	Serosurveillance of Brucellosis in sheep and goats in and around Hassan	SCSP/TSP Grants	1.10	2016	2017	K.M. Chandrashekhar



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VPA	Acaricidal pheromone based traps for tick control in dogs	KVAFSU, Bidar	0.25	2015 - 16	2017-18	Veena, M.
VPT	Assessment of invitro antimicrobial activity of root extract of <i>Glycyrrhiza Glabra</i> against pathogens isolated from bovine mastitis in Hassan district	KVAFSU, Bidar	0.40	2015	2017	Ravikumar, C.
VPT	Screening of antibiotic residue in cattle milk of Hassan district	SCSP/TSP Grants	0.65	2016	2017	Ravikumar, C.
VSR	Studies on urolithiasis in Sheep and goat in and around Hassan District	KVAFSU	0.05	2016	2018	B.R. Balappanavar
TVCC	Studies on incidence, clinico-pathological findings in ruminal disorders of crossbred cattle in and around Hassan	KVAFSU	0.20	2016	2017	Shivakumar, V.
DAIRY SCIENCE COLLEGE, BENGALURU						
DC	Evaluation of purity of commercial ghee samples and standardization of rapid method to test adulterants in ghee samples	KVAFSU	0.25	2017	2018	Shilpa Shree, B.G.
DC	Studies on functional properties of Glycomacropeptides (GMPs) obtained from sodium caseinate	KVAFSU	-	2017	2018	B.P. Pushpa
DMC	VTCC network project on Dairy Microbes	NARC, ICAR	-	2010	2017	Ramachandra, B.
DE and BM	Pilot project on price forecasting, supply projections and cloud computing of farm commodities	KAPC, GOK	10.00	2017	-	Sachindra Babu, A.



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KARNATAKA VET. AGRICULTURE & FISHERIES COLLEGES

DAIRY SCIENCE COLLEGE, KALABURAGI

Dairy Technology	Standardization of production of Malpuri - A local sweet of Kalaburagi	KVAFSU	0.10	2016	2017	Sharangouda, B.
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COLLEGE OF FISHERIES, MANGALURU

Aqua	Effect of dietary supplementation of DL-methionine on growth, survival, immune response and disease resistance in the juvenile of Indian major carp, <i>Labeo rohita</i> in the presence and absence of algae	M/s Vonic Industries (I), Germany	4.55	2015-16	2017-18	H. Shivananda Murthy
Aqua	Effect of L-Threonine supplemented diets on growth, survival, immune response and disease resistance of Indian major carp, <i>Labeo rohita</i> at two stocking densities	M/s Vonic Industries (I), Germany	3.90	2015-16	2017-18	H. Shivananda Murthy
Aqua	Surveillance of freshwater fish and shellfish diseases in Karnataka	NFDB / NBFGR	54.17	2013	2018	K.S. Ramesh
AEM	Ecological monitoring of Arabian Sea receiving effluents from MCF Ltd.,	MCF, Ltd. Mangaluru	5.50	2017	-	Gangadhara Gowda
AEM	Analysis of sea water monitoring at Marine outfall discharge point- MSEZ	Mangaluru SEZ limited	7.11	2017	-	Gangadhara Gowda
AEM	Bio-monitoring studies of treated effluent Sequent Scientific Limited, Baikampady, Mangaluru	Sequent Laoboratory, Mangaluru	0.45	2017	-	Ganagadhara Gowda
AEM	Monitoring of pollution impact by discharge of treated effluents from BASF, Mangaluru	BASF (Dyes and Dispersants), Mangaluru	6.32	2017	-	Lakshmi pathi, M.T.



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STATE ANIMAL & FISHERIES RESEARCH INSTITUTE

AEM	Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point, off Padubidri	Udupi Power Corporation Limited, Mangaluru	7.84	2017	-	H.R.V. Reddy
AEM	Assessment of water quality along fisheries harbour, South Wharf, Mangaluru	SCSP/TSP Grants	1.50	2017	-	A.T. Ramchandra Naik
FMC	Isolation and characterization of bioactive compounds from marine bacteria	KVAFSU	0.60	2016	2017	T. Suresh
FMC	National Surveillance Programme for Aquatic Animal Diseases: Surveillance of shrimp diseases in coastal Karnataka	NFDB-NBFGR	73.00	2013	2018	M.N. Venugopal
FRM	Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of Karnataka	INCOIS, Hyderabad	61.13	2013	2017	Gangadara Gowda
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU						
IAH and VB	Providing Equipments to Disease Diagnostic Laboratory Bagalkot (Bagalkot Dist), Kolar (Kolar Dist), Sira (Tumkur Dist), Sirsi (Uttara Kannada Dist)	RKVY	190.00	2012-13	2017-18	S.M. Byregowda
IAH and VB	Development of combined Sheep pox and Peste Des Petits ruminants vaccine for small ruminants	IAH and VB	2.00	2013-14	2017-18	Amitha Reena Gomes



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IAH and VB	Isolation, Biotyping and molecular characterization of <i>Brucella species</i> from ovine and caprine abortion cases	IAH and VB	2.00	2016-17	2017-18	B.R. Sumathi
IAH and VB	Standardization of dose reduction of H S vaccine	IAH and VB	3.00	2014-15	2017-18	S.M. Byregowda
IAH and VB	Establishment of Hematological and biochemical profile of Deoni of cattle	IAH and VB	0.80	2016-17	2017-18	K.Sripad
IAH and VB	Establishment of Hematological Profile of Malnadgidda breed of cattle	IAH and VB	0.90	2016-17	2017-18	K.Sripad
IAH and VB	Screening of breeding bulls for A1 and A2 genetic variant of β -casein gene	IAH and VB	1.00	2016-17	2017-18	Rashmi

CANINE RESEARCH AND INFORMATION CENTER (MH), TIMMAPUR, BAGALKOT

CRIC (MH)	Phenotypic characterization of both male and female dogs of Mudhol Hound breed	SCSP/TSP Grants	-	2015-16	2017-18	Mahesh, S. Dodamani
CRIC (MH)	Serum Biochemistry of male and female dogs of Mudhol Hound Breed	SCSP/TSP Grants	-	2015-16	2017-18	Mahesh, S. Dodamani
CRIC (MH)	Livelihood Security through Mudhol Hound rearing	SCSP/TSP Grants	300.00	2013-14	2017-18	Mahesh, S. Dodamani

FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL

FRIC, Hebba 1	Survey on status of fish production, supply and demand, processing industries and management strategies in Karnataka state	KFDC	4.00	2014	2017	K.N. Prabhudeva
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ABSTRACT OF COMPLETED RESEARCH PROJECTS

#	College /Institute	Research Projects	
		Total Nos.	Amount (Rs. Lakhs)
1	Veterinary College, Bengaluru	14	50.12
2	Veterinary College, Bidar	02	3.45
3	Veterinary College, Shivamogga	03	2.00
4	Veterinary College, Hassan	07	43.98
5	Veterinary College, Gadag	-	-
6	Dairy Science College, Bengaluru	04	10.25
7	Dairy Science College, Kalaburagi	01	0.10
8	College of Fisheries, Mangaluru	12	226.07
9	Institute of Animal Health and Veterinary Biologicals, Bengaluru	07	199.70
10	Institute of Wildlife Veterinary Research, Kodagu	-	-
11	Fisheries Research and Information Center, Bela, Ankola	-	-
12	Fisheries, Research and Information Center, Hesaraghatta, Bengaluru	-	-
13	Fisheries, Research and Information Center, Hebbal, Bengaluru	01	4.00
14	Fisheries, Research and Information Center, Bhutnal, Vijayapura	-	-
15	Livestock, Research and Information Center, Hallikhed, Bidar	-	-
16	Livestock, Research and Information Center, Konehalli, Tumkur	-	-
17	Livestock, Research and Information Center, Nagamangala, Mandy	-	-
18	Buffalo, Research and Information Center, Dornalli, Yadgiri	-	-
19	Canine, Research and Information Center, Thimmapur, Bagalkot	03	300.00
		Total	54
			839.67

b) Research Highlights

VETERINARY COLLEGE, BENGALURU

Title: Characterization of Bidri and Nandidurga goats of Karnataka

- * Survey was conducted in Bidar, Bhalki and Humanabad taluks of Bidar district for Bidri goats and in Chitradurga, Challakere and Hiriyur taluks of Chitradurga district for Nandidurga goats.
- * Information on morphological, Socio economic, management and performance parameters were 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.
- * About 50 random blood samples from unrelated goats were collected from both populations from their respective breeding tract. The DNA was isolated and quality and quantity was ascertained.
- * Microsatellite analysis using a battery of 23 microsatellite markers revealed polymorphism with 189 and 195 alleles, in Nandidurga and Bidri goats, respectively.





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- * Distinctness of the two goat populations viz., Bidri and Nandidurga were established.
- * Principal Component Analyses also supported uniqueness of the two populations.
- * Application for the registration of Nandidurga and Bidri goat breed is submitted to NBAGR, Karnal, Haryana.

Title: Genetic Characterization of Mudhol breed of Dog using microsatellites

- * All the 26 microsatellite loci studied exhibited polymorphism indicating the existence of genetic variation in Mudhol dog.
- * Total number of alleles, number of observed alleles and effective number of alleles indicated the high variability of microsatellite loci exhibiting high allelic diversity in Mudhol hound.
- * High heterozygosity observed implies presence of substantially higher level of genetic variability within Mudhol breed of dogs.
- * The high content of polymorphic information displayed by these loci is suggestive of effective utilization of these 26 markers in the molecular characterization and genetic diversity studies in Mudhol breed.
- * The population in the present study is in disequilibrium at all the loci studied, which might be due to the moderate influence of both systematic and dispersive forces over the population.
- * However, since no distinctive molecular characters pertaining to Mudhol breed of dogs could be delineated, further studies based on a larger sample as well as more number of microsatellite markers are desirable to draw more valid conclusions.

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

The present study was conducted in Karnataka state, covering all four divisions. The study was carried out in steps, viz., Repository preparation and evaluation of the content for the App, Development of “Android dairy App” and effectiveness of the App in terms of knowledge gain and adoption of management practices. Within one month the effectiveness of dairy app in terms of knowledge gain and adoption was studied and was found to be satisfactory. Highest knowledge gain was found in feeding management (59.7%) followed by, knowledge gain regarding general care and management (56.5%), housing management (51.05%), breeding management (47.36%) and disease management (44.52%). Within a short period of 25-35 days of exposure towards the APP, 16.88 per cent had adopted scientific breeding practices, followed by increased adoption level in disease management (19.38%) and general care and management (19.38%). With respect to feeding practices, 17.50 per cent have changed their feeding pattern. This mobile app is an important tool in diffusing the scientific developments in the field of dairy production and management and also acts as a ready reckoner to refer through the information at any time.



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

The study revealed that majority (64.16%) of farmers had medium level of knowledge related to climate change, with high level of perception (84.16%) and majority (56.66%) had low adaptation levels to climate change. Majority of the respondents in the present study were middle aged, male, literate, with small family size and majority had high experience in dairy Animal farming. Agriculture was primary occupation and dairy as subsidiary income generating business. Majority practices semi-intensive type of rearing and income category was low. Majority had medium information seeking behavior (61.66%) and low mass media exposure (76.66%). More than half of respondents (63.33%) had favourable attitude towards cattle rearing and had medium level of innovative proneness (81.66%). Lowest adoption measure to climate change included housing at higher altitude (4.17%). Relationship between independent and dependent variables showed that among the socioeconomic variables innovative proneness (0.2824) had positive and significance correlation to knowledge of farmers on climate change. Information seeking behaviour (0.1932) had a positive and significant correlation to adoption measures. Knowledge level of individual was significantly related to adoption measures practiced by them. Major constraint faced was lack of training on adoption of mitigation measures (96.67%). Financial support from the government and absence of government policies were serious constraints and were serious among the study variables. Hence financial support from government schemes and projects may increase adoption and adaptation of measures to cope climatic variability.

Title: Effect of strategic supplementation of Zinc on growth performance of lambs

The present investigation was conducted to study the effect of dietary supplementation of Zinc on the growth performance of lambs fed a basal diet comprising finger millet straw and a compounded feed mixture. The effect of supplementing two levels of Zn (100 or 200 ppm) as $ZnSO_4$ to a basal diet containing 29.4 ppm of Zn was studied on the feed intake, average daily gain, digestibility of nutrients and the blood bio chemical parameters. The experiment comprised of a growth trial and digestion trial.

The intake of dry matter (expressed as g per day, per cent of body weight or per kg w0.75) was significantly higher ($P<0.05$) in Zn supplemented groups compared to the control group. Similarly, the mean intakes of organic matter, neutral detergent fibre, acid detergent fibre and protein were also significantly ($P<0.05$) higher in Zn supplemented groups compared to the control group. The intakes of metabolizable energy, protein, rumen degraded protein and undegraded dietary protein of all the three groups were adequate to meet the requirement as stipulated by the ARC standard. The average daily body weight gain (g per day) was significantly higher ($P<0.05$) in groups supplemented with Zn compared to the control group (82.58, 103.2 and 102.0 g, respectively for groups T1, T2 and T3). The mean apparent digestibility (per cent) of nutrients for T1, T2 and T3 groups with respect to dry matter, organic matter, neutral detergent fibre and acid detergent fibre was significantly ($P<0.05$) higher in Zn supplemented groups compared to the control group. However, there was no significant difference in the digestibility of CP among the treatment groups. The mean alkaline phosphatase (U/L) and total serum protein (g/L) values for T1, T2 and T3 groups were 139, 181, 190 and 6.45, 8.94, 10.1, respectively. Supplementation of zinc significantly ($P<0.05$) increased the level of alkaline phosphatase and total serum protein in groups T2 or T3 groups compared to T1. However, the concentration of serum alkaline phosphatase and total serum proteins of all the three groups were within the normal range of values reported for growing lambs. There were no significant differences in the intake of dry matter or nutrients, average daily gain, digestibility of nutrients and the biochemical



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parameters studied between the groups T2 and T3 indicating that supplementation of 200 ppm has no advantage over the group receiving 100 ppm of supplemental Zn in the diet. It was concluded that, as against the recommended level of 30 ppm of Zn in the diet of growing lambs, supplementation of 100 ppm could be more beneficial for achieving a higher growth performance in lambs.

Title: Evaluation of inactivated *Mycobacterium avium* subspecies *paratuberculosis* (MAP) vaccine in sheep

- * A flock of MAP seronegative, healthy 30 sheep of age group between 4-6 months were selected for the study. The study animals were divided randomly into 3 groups with 10 animals in each group (Experimental period is 300 days), Vaccination was carried out on 19th January, 2017.
- * Group 1: Autogenous inactivated MAP vaccine administrated through subcutaneous (S/C) route.
- * Group 2: Indigenous inactivated S5 strain MAP vaccine (CIRG, Makhdoom, UP) administrated through S/C route.
- * Group 3: Control group (Unvaccinated animal).
- * Each animal was challenged with live MAP culture at dose rate of 3×10^9 cfu per animal through oral route at 75, 77 and & 79 days post vaccination (DPV).
- * Animals were evaluated for clinical symptoms, humoral immune response, shedding of MAP bacilli and pathology. Samples such as blood, serum, feces were collected from the study animals and evaluated for humoral immune response against MAP in study animals using Indirect ELISA. Vaccinated sheep gained higher body weights, also had higher sero-conversion by indirect ELISA as compared to control group. The shedding of MAP bacilli was observed in feces by direct microscopy (Ziehl-Neelsen staining) and also by IS900 PCR in sham immunized animals after 150 days post challenge. Two animals from each group were sacrificed at 240 and 300 DPV. Sacrificed control animals showed pathognomonic gross lesions such as the thickening and corrugation of small intestine, catarrhal enteritis, edematous and enlarged mesenteric lymph nodes which were not seen in vaccinated animals. Histopathologically infiltration of mononuclear cells and epitheloid cells in mucosa, submucosa of intestine and mesenteric lymph nodes were observed in control group. There was significant improvement in external and internal body traits and histological lesions in vaccinated group. In conclusion, inactivated MAP vaccine had protected the vaccinated sheep against challenge infection with live MAP organisms with an effective humoral immune response.

Title: A study on Hepatointestinal Schistosomosis in cattle

- * Out of 60-infected liver collected, 44 were positive for *Fasciola gigantica* and *Schistosoma* spp., 6 were positive for *Fasciola gigantica*, *Schistosoma* spp. and *Explanatum explanatum* and 6 were positive for only for schistosomes and 4 were negative.
- * The parasites collected were processed and stored in absolute alcohol for further molecular biology work. DNA was extracted from the worms using commercially available kit (Himedia). Schistosome primers to amplify 28S rRNA were selected and PCR was carried out. An amplicon size of 600 bp was obtained and the same was sent for sequencing. The sequence data was analysed for species identification. Sequence results confirmed the presence of *Schistosoma spindale*.



RURAL ORIENTED & FARMER FRIENDLY

Title: Molecular Characterization of Theileriosis and Babesiosis in Cattle

A total of 50 blood samples that were sent to Department of Veterinary Parasitology, Veterinary College, Hassan for the diagnosis of haemopprotozoan diseases were used in the present study. Piroplasm infections in the blood smears were observed microscopically in the collected samples. Low parasitemia levels were observed in all the samples. The piroplasms were polymorphous and most of them were observed as rod like, needle like or spherical/oval forms. Out of the 50 stained blood smears, 30 were found positive for Theileria organisms and 5 were positive for Babesia organisms. Among the Theileria positive slides there were mixed infection with *Theileria annulata* and *Theileria orientalis* organisms. Theileria and Babesia positive blood samples were subjected to genus specific PCR. Upon sequencing, the samples were found positive for *Theileria annulata*, *Theileria orientalis* and *Babesia bigemina*. This was further confirmed by species specific PCR.

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, Mandy 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%.
- * Post-mortem examination of 60 culled sero positive animals was 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 chondring of mesenteric lymphnodes.
- * The histological lesion consisted 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: Milk depletion profile of meloxicam in dairy cattle following therapeutic administration

Single therapeutic administration of meloxicam (@0.5mg.kg⁻¹, intramuscular) in lactating cattle attains its peak concentration in milk at 24 hr. post- administration. The mean resident time (MRT) of meloxicam in milk was found to be 92.20± 1.90 hrs. The meloxicam concentration in the milk fall below the prescribed maximum residue limit (MRL) at 96 hr. following single/multiple therapeutic dose in lactating cattle. Hence a 4 days of milk- withdrawal period is suggested.

Title: Performance of Commercial broilers supplemented with Processed Organic waste

Processed organic waste could be supplemented to broiler diets replacing part of maize and soyabean meal up to a maximum of 15%. The cost of production of processed organic waste should be less than Rs.8/Kg so as to make its incorporation in broiler diet economically feasible.



RURAL ORIENTED & FARMER FRIENDLY

Title: Performance of Commercial broilers supplemented with Processed Organic waste

- * Out of 50 chicken meat samples screened, 09 (18%) samples were found positive for *Arcobacter* sp. by cultural method and biochemical tests.
- * **All the nine Arcobacter isolates showed positive results with genus based PCR and gave an amplification product of 1223 bp.**
- * In-vitro antibiotic sensitivity test was performed on cultural and PCR positive isolates of *Arcobacter* spp. A total of 9 isolates of different *Arcobacter* spp. were subjected to in-vitro antibiotic sensitivity test. In this study, most of the *Arcobacter* isolates showed high sensitivity to ampicillin, gentamicin and kanamycin (100%, 99%, 98%, respectively).
- * Higher resistance was noted for antibiotics like cephalothin, vancomycin, and clindamycin and (100%, 92.22%, 86.20% respectively). An intermediate resistant pattern was shown against Co-Trimoxazole and azithromycin (77.78% and 61.11% respectively). All the isolates were sensitive to nalidixic acid and resistance to cephalothin.
- * The present study was carried out to detect and isolate *Arcobacter* spp. from retail chicken meat using conventional cultural and molecular technique like PCR assay for rapid detection and confirmation of *Arcobacter* spp. at genus level. Prevalence of, *Arcobacter* spp. in chicken meat samples may play role in contamination of the environment and human food chain and could be of significance for human health as it is associated with enteritis in humans. Still studies are to be conducted to know the zoonotic potential of this pathogen in case of humans.

VETERINARY COLLEGE, SHIVAMOGGA

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

- * By utilizing the grant award, eco-friendly BioScaffold technology has been developed which overcomes the drawbacks of conventional decellularization methods.
- * **Patent filed:** Method of Processing of Decellularized Extracellular Matrix for Bio-Medical Applications (Application No. 201641029234).

Title: Supplementation of L-Threonine for Optimization of Dietary Crude Protein Levels in Broiler diets

- * Dietary crude protein in commercial broiler diets could be reduced by 1 per cent unit with replacement of L threonine without affecting performance of the bird.
- * Replace costly protein source in the broiler feed with synthetic amino acid supplementation is economical.
- * Cost of production could be reduced in large scale production.

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

The mortality encountered in the wild fauna either captive or semi-captive were infectious in nature at 56.86%, with 27.58% of cases having parasitic infections and 72.41% with non-parasitic (bacterial/viral/etc). The non-infectious causes of death were classified as traumatic at 53.84% and non-traumatic at 42.86%. Few of the lesions noticed could not be deciphered as to the cause of the change.



RURAL ORIENTED & FARMER FRIENDLY

KARNATAKA VETERINARY AND FISHERIES SCIENCES UNIVERSITY

- Equal Incidence of infectious and non-infectious causes among wild/captive / semi-captive wild animals.
- Higher incidence of traumatic causes indicates existence of human-animal conflict especially in free range.
- Endo-parasitic conditions were existent across all species of wild animals.
- Higher incidence of infectious conditions in semi-captive and captive animals may be attributed to close proximity of wild animals with humans.
- Foreign body impactions indicate behavioural abnormality or nutritional imbalance in captivity.
- * Herd animals show greater incidence of infighting induced myositis and gangrene.
- * Mixed infections were prevalent in several cases across all types of wild animals necropsied.

VETERINARY COLLEGE, HASSAN

Title: Herd Registration and Field Performance Recording in Amrithmahal Cattle

- * Under National Project on Cattle and Buffalo Breeding, Karnataka Livestock Development Agency entrusted the project entitled "Herd Registration and Field Performance Recording in Amruthmahal Cattle breed of Karnataka" to Karnataka Veterinary and Fisheries Sciences University, Bidar with the major objective of Field performance recording of milk traits in 1000 Amruthmahal cows.
- * The project was executed from the Department of Animal Genetics and Breeding, Veterinary College, Hassan with Dr. Naveen Kumar G. S., as Principal Investigator and Dr. K. C. Veeranna and Dr. Basavraj Inamdar as Co-Investigators for a period of three years (August, 2014 to September, 2017).
- * Amruthmahal breeding tract was surveyed and five clusters - Birur, Ajjampura and Lingadahalli in Chikkamagaluru district and Holalkere and Ramgiri from Chitradurga district were selected for the field performance recording. Five field supervisors from the cluster area and one office assistant were appointed and were given training on various aspects of field performance recording.
- * Training on FPR was given the Veterinary officers of the breeding tract. The training was organised in collaboration with Central Herd Registration Scheme, Ongole. Veterinary officers of the respective clusters were involved in selection of animals, monitoring, organizing camps and establishment of breeders association.
- * Complete livestock census of the selected villages from the study area was done. The data indicated that the small farmers were the true breeders of local cattle and they used even females for ploughing activities. Marginal and landless farmers keeping indigenous cattle were seen nearby Kavals and for these farmers the sale of male calves is the major source of income.
- * Thousand Amruthmahal cows were selected, ear tagged, morphological traits recorded were measured and performance recording was done as per International Committee on Animal Recording.
- * Identification of adult Amruthmahal males was quite easy, whereas classification of adult females needed vast experience and close observation of morphological features. In the present study an index based on the morphological features of the animals has been developed for grading and selecting better Amruthmahal females.



RURAL ORIENTED & FARMER FRIENDLY

Department of Animal Husbandry & Veterinary Services
Government of Kerala

- * The morphological features of the selected cows includes White coat colour, black coloured muzzle, eye lashes and hooves, bulged forehead with furrow, moderately large dewlap, curved inward and forward horns and the Average morphometric measurements of **Chest girth, Body length, Barrel girth, Height at withers** were 148.27 ± 0.46 , 119.88 ± 0.35 , 158.79 ± 0.43 , and 121.56 ± 0.27 cms respectively.
- * The average lactation milk yield for the Amruthmahal cow under present study was 583.79 ± 5.83 liters. The lactation milk yield ranged from minimum of 170.4 liters to maximum of 1639.7 liters. The daily milk yield recorded ranged from 1.5 to 8 liters. The overall average fat percentage of Amruthmahal cow milk is 5.05 ± 0.01 % and ranged from 4.0 to 6.10 % in different cows. The overall average solids not fat percentage of Amruthmahal cow milk is 9.063 ± 0.01 % and ranged from 8.01 to 9.60 % in different cows. The average lactation period of Amruthmahal cows is 501.55 ± 1.97 days and ranged from 370 to 762 days in different cows.
- * The overall average inter calving period of Amruthmahal cows in the present study is 501.56 ± 1.97 days. Age at first calving for the 338 first lactation cows in the present study is 4.34 years.
- * Amplified Created Restriction Site (ACRS) method of genotyping of fifty Amruthmahal cattle revealed presence of only A2 type of alleles, Hence, Amruthmahal cattle is having only A2 genotype thus A2 type of milk.
- * Amruthmahal cattle have black coloured, compact hooves with significantly lesser inter digital space, more hardiness, better ratio of toe height to toe length, greater toe angle and claw circumference compared to hooves of crossbred cattle.
- * The fatty acid profile results indicated that Amruthmahal cattle milk has good fat percentage and composed of fatty acids which are beneficial to health as well as for better quality butter. Presence of cis-11-eicosenoic acid (C20:1) in Amruthmahal butter makes it better anti-inflammatory. Butter has lesser saturated fatty acids - more of stearic acids and lesser myristic acid which makes the Amruthmahal butter healthier compared to that of European cattle. The lesser levels of short chained fatty acids like butyric, capric and caproic acids gives better flavour to the butter of Amruthmahal cattle.
- * The status of Amruthmahal cattle in breeding farms were reviewed and found that the strength of around two thousand animals should be maintained for which sufficient man power needs to be provided. New animal identification system should be validated and used, bull to cow ration needs to be maintained, regular culling based on records should be done, individual animal records to be maintained, device to measure the weight of the animals needs to installed, both male and female calves to be weaned at six months of age and slowly shifting to intense system of rearing so that selection of animals can be practiced based on records.
- * One training program to VO's, three training programs to field supervisors, two cattle shows, five breed awareness programs, one farmers training program and one workshop to scientists were organised. One compendium and one training manual was prepared and issued to the trainees. The research team participated in four conferences and presented several papers. A paper on "Strategies for conservation of Amruthmahal breed with farmers" presented at National Seminar on Green Economics and Desi cow, 26-28th May, 2016 at Kottayam, Kerala bagged "Best Oral Paper Award".
- * Amruthmahal Cattle Breeders Association was formed and registered under Societies act with registration number S-117/2016-17 dated 06-10-2016 and formally inaugurated on 2nd October



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2016 by Dr. M. T. Manjunath, Project Director, Karnataka Livestock Development Agency, Bengaluru. Four indigenous cattle shows / health camps were organised by the association in collaboration with the department of AH&VS.

Title: Serosurveillance of Brucellosis in sheep and goats in and around Hassan

- * A total of 192 serum samples were collected from different regions in and around Hassan. All the samples were subjected to Rose Bengal Plate Test (RBPT) for preliminary screening. Further, ELISA was carried out for all samples by using Svanovir Brucella Ab I ELISA kit. An overall prevalence rate of 20.83 % and 16.66 % was found by RBPT and ELISA respectively.

Title: Acaricidal pheromone based traps for tick control in dogs

- * The Assembly pheromone (AP), Attractant sex pheromone (ASP) and the kairomone, carbon dioxide were used in attracting the male adult stages of *Rhipicephalus sanguineus*. Ticks attracted were killed using the acaricide amitraz. Tick lure comprising of carbon dioxide as kairomone and Attractant Sex Pheromone in combination with Assembly Pheromone and amitraz on a thermocol platform was prepared. Five ticks were released at a time for each trial and a total of 5 trials for each distance were performed. Ticks were released from 0.5, 1 and 1.5 cm distances away from the lure. Control lures consisted of untreated filter paper discs and without carbon dioxide source. The number of ticks attracted within 30 min to the vicinity of the lure was noted. Higher level of attraction was recorded when the AP was combined with an acaricide than when employed alone. In the current study carbon dioxide alerted the ticks to the host presence and pheromone attracted the ticks. Simulated field trials response was not effective. In this trial less attraction obtained could be because the study was conducted in uncontrolled environmental conditions. In conclusion, ASP and AP were found to be effective in off the host control of ticks. Further studies in this field will provide an effective eco friendly alternative tick control method.

Title: Assessment of invitro antimicrobial activity of root extract of *Glycyrrhiza Glabra* against pathogens isolated from bovine mastitis in Hassan district

- * The study aimed to evaluate the antibacterial activity of aqueous and methanolic root extracts of *Glycyrrhiza glabra* against *Staphylococcus aureus* (*S. aureus*) and *Streptococcus agalactiae* (*St. agalactiae*) the major pathogens isolated from the cases of clinical and sub clinical bovine mastitis. Phytochemical screening of the herbal extract revealed the presence of alkaloids, glycosides, saponins, tannins, steroids and flavonoides. The antibacterial sensitivity test (ABST) of the aqueous extract and methanolic extract ranged between 10 mm to 17 mm against *Staphylococcus aureus*, and *E. coli* at different concentrations. The methanolic extract was more effective than aqueous extract against *Staphylococcus aureus* (17 mm), and *E. coli* (13 mm) at the concentration of 8 mg/disc. Minimum Inhibitory concentration (MIC) was determined by the tube dilution method. The MIC and MBC (Minimum bactericidal concentration) value of methanolic extract was 3.125 mg/ml for *S. aureus*, and 12.5 mg/ml. Whereas, the aqueous extract having higher MIC and MBC values i.e. 6.25 mg/ml for *S. aureus*, and the result was negative for *E. coli*. The results of the present study showed that the methanolic root extract of *G glabra* at different concentrations depicted better antimicrobial activity compared to aqueous extract. The methanolic and Aqueous extract of root extract plant material *Glycyrrhiza glabra* effective against the *Staphylococcus aureus* and *E-coli*





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organism but ineffective against the *Streptococcus agalactiae* organism. The extract is having great antimicrobial potential and can be used as raw materials for herbal therapy for bovine mammary gland infection.

Title: Screening of antibiotic residue in cattle milk of Hassan district

- * The present study was conducted to know the presence of the antibiotic residue in the cattle milk of Hassan taluk in Hassan district. The milk samples were collected from 23 milk cooperatives with the help of the KMF, Hassan. The 2ml of about 24 samples were collected from each milk cooperatives. The test was carried out by paper strip assay kit for detection of antibiotic residues in milk procured from ICAR – National Dairy Research Institute, Karnal. From this Kabbati, Somanahalli, Sankanhalli, Rajagere, Tattehalli, Koravangala, Sappanahalli and Chikkakadalur milk samples found positive for the presence of the antibiotic residues in the milk samples. The farmers mix the milk from all the animals this will interfere with presence of antibiotics due to the dilution of the milk. This study will help for the quantitative estimation for the presence of the antibiotic residues in the milk samples.

Title: Studies on urolithiasis in Sheep and goat in and around Hassan District

- * Percentage of occurrence of surgical affections of urinary system in sheep and goat was recorded as 0.38%. Eight cases of urolithiasis affected sheep and goat were analysed during the study. Sheep were more affected than goat. Age group of 4-10 months were more affected. Hematobiochemical changes were not significant in sheep and goat. Urine analysis revealed significant changes in pH, Sediment test and cytology. Bacteria were not recorded in urine samples indicated urolithiasis of nutrition origin.
- * Ultra sound helped in assessing the bladder before and during the course of treatment. Although the bladder was ruptured before presentation the US scan showed distended anechoic bladder. With hyperechoic regions of bladder rupture along with crystals freely floating in the urinary bladder and sediments at the bottom of bladder wall.
- * Tube cystostomy was a good tool in management of urolithiasis in sheep and goat with administration of ammonium chloride at 5% intra cystic and oral administration for 1 month. Tube was removed after 7-13 days based on the improvement of the individual cases. Average pH recorded was 10 at presentation returned to pH 7 by 2 days.
- * Bladder exercise helped in clearing the crystals lodged in the urethra from 4 th day. Animals resumed to normal feeding after tube cystostomy operation.
- * Mean days of recovery; 8 days. (3-16)
- * Mean days of Tube removal ; 12 days (10-20)
- * Days of hospitalization; 10-15 days. Recovery was 100%

Title: Studies on incidence, clinico-pathological findings in ruminal disorders of crossbred cattle in and around Hassan

- * During the study period (April, 2016 to March, 2017), incidence of simple indigestion is higher (11.69%) followed by Ruminal Acidosis (4.0%), Ruminal alkalosis (2.76%), Traumatic pericarditis (2.5%), Bloat (2.46%) and Diaphragmatic hernia (0.3%).



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क्षेत्रीय & किसान स्वतंत्र

- * All the clinical parameters such as Temperature, HR and RR were within normal range in case of animals suffering with simple indigestion. Elevated temperature was noticed in animals with R acidosis, alkalosis and TRP. Elevated HR and RR were seen in animals with R. acidosis and Bloat. Rumenoreticular motility was reduced in all the ruminal disorders
- * Ruminal fluid evaluation is of greater importance in diagnosing ruminal disorder as pH, colour, odour, consistency, SAT, MBRT gives a significant idea about the nature of diseases. pH is towards acidic in ruminal acidosis (5.13 ± 0.37) and towards alkaline (8.2 ± 0.48) in Ruminal alkalosis. Protozoal motility is decreased to nil in all the ruminal disorders. Gram's positive bacteria predominate in animals suffering with Ruminal acidosis.
- * Hemato biochemical parameters were well within normal range and of less useful in diagnosing ruminal disorders except in ruminal acidosis where increased hemogram i.e PCV ($44.00 \pm 2.98\%$), TEC (6.49 ± 0.44 millions/cumm), Hb (12.06 ± 1.02 gm/dL) is seen and leucocytosis (18.41 ± 1.90 thousands/cumm) with neutrophilia ($64.25 \pm 5.99\%$) and increased total protein is seen in animals with traumatic reticulitis/peritonitis/pericarditis. There was elevated BUN level in animals suffering with Ruminal alkalosis (44.88 ± 2.8 mg/dL) and Ruminal acidosis (40.75 ± 4.17 mg/dL).

DAIRY SCIENCE COLLEGE, BENGALURU

Title: VTCC network project on Dairy Microbes

- * A total of 20 nos. of genotyped lactic acid bacterial isolates will be submitted shortly to NCDC, Karnal.
- * So far 104 nos. of lactic acid bacterial have been characterized for identity and features and submitted to NCDC, Karnal.

DAIRY SCIENCE COLLEGE, KALABURAGI

Title: Standardization of production of Malpuri - A local sweet of Kalaburagi

- * Among different levels of khoa to sugar 1:0.5 is the best.
 - * Among the different strength of sugar syrups, 60% sugar syrup was the best for dipping Malpuri after frying.
 - * Among the different frying temperature 140 degree was found as the best temperature.
- Among the different frying media tried- Ghee proved the best.

COLLEGE OF FISHERIES, MANGALURU

Title: Effect of dietary supplementation of DL-methionine on growth, survival, immune response and disease resistance in the juvenile of Indian major carp, *Labeo rohita* in the presence and absence of algae

- * The dietary inclusion of 0.20% of supplemented methionine (F_2) in case of algal treatment (WAF2) promoted significantly ($p<0.05$) greater weight gain Food Convention rate (FCR) and Scientific growth rate (SGR).



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Title: Effect of L-Threonine supplemented diets on growth, survival, immune response and disease resistance of Indian major carp, *Labeo rohita* at two stocking densities

- * Results indicated that in both low density (LD) and high density (HD), FCR was lowest in *Labeo rohita* fed the diet containing 4g L-threonine and higher FCR was noted in the fish fed control diets.

Title: Surveillance of freshwater fish and shellfish diseases in Karnataka

- * Training programmes were conducted on the importance of disease surveillance in aquaculture for the fish farmers and fisheries department officials
- * Training programmes were conducted on diseases of fresh water fishes, identification of diseases and their treatment for the fisheries department officials and farmers, literature in Kannada were prepared and distributed.
- * Training programmes were conducted about 2 new viral emerging diseases namely koi Herpes Virus (KHV) and Spring Viremia of varps (SVC), and literature in Kannada were prepared and distributed to the farmers.
- * Active surveillance conducted for KHV and SVC were found to be negative.

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, twelve marine sediment samples were collected from each sampling station such as Surathkal, Someshwar, Ullal and Mangrove areas and subjected for the samples were subjected to isolation of bacteria. 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 bacterial isolates showing antimicrobial property were subjected to a battery of biochemical tests for identification and confirmed as among them *Bacillus* spp (48 isolates) and *Pseudomonas* spp (9 isolates). 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 growth conditions for these isolates were optimised for the production of antimicrobial substances. The active compounds from these isolates were partially purified. The active inhibitory compounds thus obtained were tested against fish and shellfish pathogens. The partially purified compounds showed strong activity against *Vibrio harveyi* and *Listeria monocytogenes* with a MIC concentration of 20 μ g/ml. The mild activity was observed on *Salmonella* sp with a MIC of 80 μ g/ml.

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

- * Shrimp samples and pond water were 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



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(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 enterocytozoon hepatopenaei (EHP).

- * The results were documented and monthly reports 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. A total of 191 baseline data information, 131 biological data of shrimp farms and 2 shrimp hatchery baseline data from coastal Karnataka have been collected and uploaded to NSPAAD portal. A total of 363 shrimp samples were tested for viruses among these 119 (WSSV), EHP (89), IHHNV (21), MBV and HPV (2) samples showed positive for respective viruses.
- * Throughout the surveillance period no incidence of any RNA viruses was observed even by third level of diagnosis in the cultured shrimp. Awareness created among shrimp farmers regarding the surveillance by organising awareness meetings and distributing pamphlets (4 awareness programmes 2 in Udupi and 2 in Uttar Kannada district). Conducted training programmes for the state Fisheries department officers on “National Surveillance Programme for Aquatic Animal Diseases.” Conducted one day workshop on “National Surveillance Programme for Aquatic Animal Diseases” for the Karnataka state Fisheries department officers at College of Fisheries Mangaluru.
- * One leaflet in Kannada on “National Surveillance Programme for Aquatic Animal Diseases” and 2 in English on EHP and AHPNA disease diagnosis and prevention were prepared and distributed among the shrimp farmers. Published one research paper national journal- Indian Journal of Fisheries.

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

- * Water quality in the study area was well within the ambient levels of coastal environment and 36 species phytoplankton observed and were represented by **Biddulphia** – (*Biddulphia regia*, *B. sinensis*, *Biddulphia mobiliensi*) **Chaetoceros-** (*C. lorenzianus*, *C. decipiens*, *C. compressus*, **Chaetoceros-** *C. lorenzianus*, *C. decipiens*, *C. compressus*) **Coscinodiscuss-** *C. oculus iridis*, *C. lineatus*, *C. excentricus*, **Nitzschia-** *N. closterium*, *N. striata*. **BGA-** *Trichodesmium sp.*
- * Zooplankton were represented 3, 23 species consisting **Tintinids-** (*Tintinopsis sp.* *Rabdonella sp.*) **Medusae-** (*Obelia sp.*, *Octocostatum sp.*) **Ctenophores-** (*Plurobranchia sp.*) and **Chaetognaths-** (*Sagitta enflata*, *Pterosagitta draco*, *Lucifer Lucifer*)
- * Benthic community consists of 19 groups, of which molluscs were dominated species followed by **Echinoderms, Echiuroids, crabs, shrimps and fishes.**
- * The biological diversity of plankton and benthos in the study area found to vary with time and space.

The bioassay studies of coastal water at the discharged point in the Arabian Sea revealed no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout.



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Title: Analysis of sea water monitoring at marine outfall discharge point

- * Coastal water quality in the vicinity of discharge of point of MSEZL in the Arabian Sea was monitored by collecting the water, sediment, plankton, benthos and fishes on seasonal basis. Water quality parameter and their values are within the levels of coastal water standards
- * **Phytoplankton- consisted of 20 genera which mainly included** Diatoms (*Chaetoceros, Biddulphia, Coscinodidcus*) Dinoflagellates – (*Ceratium, Peridinium* were dominant) Blue green algae- (*Trichodesmium*)
- * **Zooplankton** mainly consists **20 genera**, of Copepods, copepodites, tintinids, *Oikopleura*, and cladocerans.
- * **Benthos represented 15 genera** of which are Molluscs – Bivalve spats, *Meritrix, Donax, Dentalium* and *Umbonium* were dominant and Polychaetes such as *Neries, Nephtys, Polydora* were dominant. *Population density of polychaetes showed direct relationship with organic matter in the sediment.*
- * Heavy metals such as - Cd, Cr, Mn, Fe, Pb, Zn, Ni in water, sediments, phyto and zooplankton fin fish and shell fish samples with were within the permissible limit of coastal water quality.

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

- * Water, sediment, phytoplankton, zooplankton and benthos were collected and analysed by using standard methods from the vicinity of discharge point, off Arabian sea, Mangaluru and the water quality - within the ambient levels of coastal environment
- * Phytoplankton of 33 genera, mainly consisted of Diatoms (*Coscinodidcus, Biddulphia, Chaetoceros, Ditylum*) ; Dinoflagellates (*Ceratium, Peridinium*) Blue green algae- (*Trichodesmium*)
- * Zooplankton consists of 21 genera, of which Copepods, Copepod Nauplius, *Oikopleura*, Tintinids, Cladocerans were dominant
- * Benthos – 17 genera, in which Molluscs consists of bivalve spats (*Donax, Dentalium, Meritrix* and *Umbonium*) and Polychaetes (*Neries, Nephtys, Polydora*)
- * Heavy metals in were well below the coastal standard limit
- * The bioassay studies reveal that there was no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout and o mortality of fingerling of *Cyprinus carpio* exposed to the water collected from the cooling pond from the vicinity of the industry (before discharging into the sea).

Title: Bio-monitoring studies of treated effluent Sequent Scientific Limited, Baikampady, Mangaluru

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



RURAL ORIENTED & FARMER FRIENDLY
ಕರ್ನಾಟಕ ಸರ್ಕಾರ

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

- * Water, sediment, phytoplankton, zooplankton and benthos were collected and analysed by using standard methods from the vicinity of discharge point, off Arabian sea, Mangaluru
- * The water quality parameters were found to be within the range of levels of coastal water standards
- * Phytoplankton were represented 32 genera which comprised of diatoms (dominant), followed by dinoflagellates and blue green algae
- * Zooplankton of 20 genera mainly represented by copepods, tintinids, oikopleura, polychaetes and decapod larvae showed their dominance in the area
- * Benthos represented by 18 genera of which molluscs and polychaetes were dominant during the period
- * Heavy metals such as Cd, Cr, Mn, Fe, Pb, Zn, Ni during post monsoon and pre monsoon season in the sediment were within the levels of coastal standards
- * Bioassay studies revealed that there is no mortality in the mussels exposed to seawater collected from the vicinity of effluent fallout.

Title: Assessment of water quality along fisheries harbour, South Wharf, Mangaluru

- * Research sampling started from January, 2018. Water quality assessment and plankton productivity are being carried out by following standard procedures.

Title: Influence of Oceanographic Parameters on Plankton Assemblage and Pelagic Fisheries using Satellite data along the Coast of Dakshina Kannada and Udupi Districts of Karnataka Data Collection

- * A questionnaire was prepared to collect the data from Mangaluru and Malpe fish landing centers. All fish caught were identified to species level using standard taxonomic keys.
- * A total 150 finfish and shellfish were recorded during the study period which included.
- * Oil sardine, Lesser Sardine, Mackerel, Horse Mackerel, Threadfin breams, Cephalopods, Carangids, Ribbon fishes, Stomatopods, Lizard fishes, Penaeid shrimps, Soles, Rockcods, Seerfish, Anchovies, Sharks, Mollusks, Eels, Groupers, Snappers, Catfishes, Crabs, Oysters, Puffer fish, Rays, Silver-bellies, Wolf herrings, Trevallies, Crocker, Pomfrets.,, *Niddle fish*, *Gerres spp.*, *Terapon spp* etc.

Data Collection

Malpe			Mangaluru	
Area	Latitude (N)	Longitude (E)	Latitude (N)	Longitude (E)
PFZ	13 15 235 N	74 28 608 E	12 48 341 N	74 42 527 E
Non PFZ	13 17 547 N	74 27 638 E	12 54 212 N	74 62 414 E



RURAL ORIENTED & FARMER FRIENDLY

As per the suggestion of INCOIS two sampling points were fixed at Mangaluru and Malpe centres and experimental fishing was conducted and the data were collected

Mangaluru			
Station	Latitude(N)	Longitude (E)	Depth(m)
I	12 51 428	74 43 716	21
II	12 52 331	74 39 547	30
Malpe			
I	13 22 389	74 35 412	11
II	13 25 740	74 35 840	16

Experimental fishing was done to study the abundance and fish species composition Random samples of fishes were collected, analyzed and recorded the data on the following aspects:

- * Length and weight, Gut weight and gut content composition to ascertain the feeding habit of fishes. Sex, gonad weight, maturity stages, fecundity, Gonado-Somatic Index and Sex ratio. Ova diameter studies was conducted to assess the spawning periodicity of fishes. Water samples from each stations were collected and the following parameters were analyzed: Temperature, salinity, pH, Dissolved Oxygen, turbidity, visibility, nutrients, chlorophyll and CDOM. Besides, the meteorological parameters and sea state, sky state, color etc. were also recorded.

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

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

- * Laboratories have been established during 2013-14.
- * Equipments have been purchased.
- * All the laboratories are working towards rendering service to farmers.
- * Staff for these laboratories –
- * Veterinary officers from Department of AH & VS are working on deputation are working on deputation. Parastaff have been outsourced.
- * Construction of laboratory buildings at Sira, Kolar and Sirsi is completed.

Title: Development of combined sheep pox and Peste Des Petitis ruminants vaccine for small ruminants

- * The PPR and sheep pox viruses were grown separately in vero cells using PPRVP62 sungri/96 vaccine virus and SPV SLT32 vero12 vaccine strain.
- * Both PPR virus and sheep pox virus were titrated in vero cells.
 - * The titer of PPR virus was $10^{7.16}$ /ml
 - * The titer of PPR virus was $10^{6.16}$ /ml
- * Both the viruses were mixed and freeze dried using lactalbumin hydolysate and Sucrose as stabilizers.



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- * The presence of PPR virus in the freeze dried combined vaccine was confirmed by RT-PCR using NP3 and NP4 set of primers and by sELISA using IVRI kit.
- * The presence of sheep pox virus in the freeze dried combined vaccine was confirmed by PCR using primers for enveloped gene.
- * The vaccine was tested for sterility in soyabean casein digest medium at 20-25 °C and 30-35 °C and in fluid thioglycollate medium at 30-35 °C. Under all conditions sterility was found to be satisfactory.
- * The vaccine was given to eight female sheep of 6m age by subcutaneous route and thermal response, local reaction and immune response was evaluated for 60 days. Two sheep were kept as in contact controls.
- * The site of vaccination was monitored for local response. Only 25 per cent of the vaccinated animals developed a slight red swelling by 5-6 days post vaccination. The swelling turned into dry scab and was healed without any complications by day 8 to day 10. Apart from that there were no untoward local response to the combined vaccine.
- * Humoral immune response against PPR was detected before vaccination and day 14, 21, 45 after vaccination by cELISA and serum neutralization test.
- * Percentage inhibition values plotted against days post vaccination of eight animals
- * The SNT titers against PPR before and 21 days after vaccination were also determined.
- * Humoral immune response against sheep pox was detected before vaccination and day 14, 21, 45 after vaccination by serum neutralization test.
- * Cell mediated immune response was evaluated using ELISPOT assay using PHA as positive control and 10 and 50 TCID50 of sheep pox virus as stimulation and 10 TCID50 of PPR virus and PPR antigen from sELISA kit for stimulation.

Title: Isolation, biotyping and molecular characterization of *Brucella species* from ovine and caprine abortion cases

- * Study was designed for collection, processing, isolation and identification of Brucella organisms from suspected cases of storming abortions in sheep and goat flocks from six different districts of Karnataka. The districts Tumakur, Ramanagara, Mandya, Ballari, Bengaluru rural and Kolar.
- * Totally 30 aborted foetus, placenta and serum samples collected, 12 goats and 18 sheep farms suspected for brucellosis.
- * Out of 30 serum samples 25 samples were found be positive for brucellosis by RBPT.
- * On isolation with brucella specific medium, five brucella cultures were obtained.
- * All the isolates were confirmed by genus and species specific PCR.
- * All the isolated were found to be *Brucella melitensis* and all are of Biotype 1
- * *Brucella melitensis* is more prevalent among sheep and goat accounting for more abortions.

Title: Standardization of dose reduction of Haemorrhagic Septicaemia vaccine

- * 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.
- * Potency tested in calves and found to be satisfactor



RURAL ORIENTED & FARMER FRIENDLY

Title: Establishment of Hematological and serum biochemical Profile of Deoni breed of cattle in Karnataka

- * Hematological and serum biochemical profile for the Deoni breed was established.
- * Comparison with other breeds revealed significantly lower TLC value as compared to Malnadgidda and Krishnavalley breed only.
- * Mean Hb and MCH values of Deoni cattle breed were significantly higher as compared to Malnadgidda.
- * Mean platelet values of Deoni cattle breed were significantly higher as compared to Malnadgidda and Krishnavalley breeds.
- * Mean TP SGOT values of Deoni breed were significantly lower than Malnadgidda breed.
- * Mean SGPT values of Deoni breed were significantly lower than all the three indigenous breeds.
- * Mean BUN values of Deoni cattle breed were significantly higher as compared to Malnadgidda breed and not other two breeds.
- * Between the male and female groups, no significant differences were observed in the hematological and biochemical parameters except mean Hb (higher in female group) and mean magnesium values (higher in male group)
- * Between different age groups of Deoni breed there were no significant differences as regards to hematological or biochemical parameters.

Title: Establishment of Hematological Profile of Malnadgidda breed of cattle in Karnataka

- * Hematological profile for the Malnadgidda breed was established.
- * Comparison with other breeds revealed significantly higher TLC value as compared to Deoni breed only.
- * Mean Hb, MCH and PLT values of Malnadgidda cattle breed were significantly lower as compared to Deoni and Khillar,
- * Comparison with the Krishnavalley breed, only Mean Hb and MCH values were significantly lower and not PLT values
- * There was no statistically significant difference between mean haematological values of male and female groups, different age groups and also different geographical regions of Malnadgidda cattle and so also with the respective groups of other indigenous breeds, except 0-3 years and 6-9 years age groups.

Title: Screening of breeding bulls for A1 and A2 genetic variant of β -casein gene.

- * Procurement of chemicals, consumables, etc.
- * Random collection of blood sample from breeding bulls.
- * Extracting the DNA from the sample;
- * Amplifying (using PCR) a nucleotide sequence that contains the site of the mutation; treating the amplified sequence with a restriction enzyme that cuts only the normal sequence; and electrophoresing the resultant DNA to reveal the number and size of DNA segments present.

A total of 102 DNA samples were processed from blood samples by DNA Isolation technique (Kit method). All 102 DNA samples were subjected to PCR-RFLP technique and screened for A1 & A2 genotypic analysis.



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Name of farms	Breed	No of samples	Genotypic analysis			Percentage (%)		
			A1A1	A1A2	A2A2	A1A1	A1A2	A2A2
Animal Disease Diagnostic Laboratory and Information Centre, Sirsi	Malnad gidda	60	00	10	50	00	16.67	83.33
NSS, Hesaraghatta	HF	10	02	05	03	20	50	30
NSS, Hesaraghatta	Jersey	10	02	05	03	20	50	30
LB & TC, Dharwad	Tharparkar	12	00	00	12	00	00	100
SSCC, Hessaraghatta, Bengaluru.	Hallikar	05	00	00	05	00	00	100
SLBTC, Hessaraghatta, Bengaluru.	Surti	05	00	00	05	00	00	100
Total		102	04	20	78	3.92%	19.61%	76.47%

Based on our screened data:

- a. Tharparkar, Hallikar & Surti has **100 % A2A2**.
- b. Malnad gidda has 16.67 % A1A2 genotype, **83.33 % A2A2** and there is no A1A1 genotype.
- c. HF has 20% A1A1, 50 % A1A2 genotype, **30 % A2A2** and there is no A1A1 genotype.
- d. Jersey has 20% A1A1, 70 % A1A2 genotype, **30 % A2A2** and there is no A1A1 genotype.

CANINE RESEARCH AND INFORMATION CENTER (MH), TIMMAPUR, BAGALKOT

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

Table 1. 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 withers	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.





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Title: Serum Biochemistry of Male and Female Dogs of Mudhol Hound Breed

Table 2. Serum Biochemistry of Male and Female Dogs of Mudhol Hound Breed at Puberty

#	Parameters	Male	Female	Reference Values
1	Calcium (mg/dl)	9.86 ± 0.11	9.55 ± 0.13	9-11.4
2	Phosphorus (mg/dl)	3.85 ± 0.10	3.65 ± 0.16	2.5-7.7
3	Sodium (mmol/l)	143.00 ± 1.00	145.00 ± 0.87	142-152
4	Potassium (mmol/l)	4.69 ± 0.07	4.60 ± 0.08	4.4-6.1
5	Chloride (mmol/l)	115.84 ± 2.55	112.59 ± 2.19	110-124
6	Glucose (mg/dl)	79.83 ± 0.99	78.75 ± 1.12	80-120
7	Total Protein (g/dl)	7.03 ± 0.10	6.89 ± 0.19	5.5-7.5
8	Albumin (g/dl)	4.65 ± 0.28	4.01 ± 0.13	2.6-4
9	Globulin (g/dl)	4.20 ± 0.07	4.11 ± 0.06	2.1-3.7
10	Bilirubin (mg/dl)	0.78 ± 0.03	0.79 ± 0.03	0.1-0.6
11	Cholesterol (mmol/l)	136.33 ± 2.06	127.50 ± 2.66	110-330

12	SGOT (IU/l)	33.25 ± 0.69	31.58 ± 0.77	5.0-55
13	SGPT (IU/l)	34.67 ± 0.69	33.17 ± 0.77	5.0-107
14	Blood Urea Nitrogen (mg/dl)	5.01 ± 0.28	4.93 ± 0.33	8.8-26
15	Creatinine (mg/dl)	0.90 ± 0.04	0.86 ± 0.05	0.5-1.6
16	Creatinine Kinase (Iu/l)	47.75 ± 0.68	46.42 ± 0.05	14-120

Title: Livelihood Security through mudhol hound rearing

- * The distributed pups to 244 beneficiaries (229 male + 258 female = 487 puppies) along with Puppy food and calcium and vitamins supplements.
- * 187dogs have been micro-chipped and registered with Kennel Club of India in Collaboration Mysore 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, etc



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2) Ongoing Projects

a) Research Details

Depts.	Title	Funding Agency	Budget (in lakhs)	Yr. of Comt.	Principal Investigator
VETERINARY COLLEGE, BENGALURU					
VAN	Flash based innovative techniques for teaching Anatomy	VGST (Govt of Karnataka)	30.00	2014	K.V. Jamuna
VAN	FIST (Infrastructure)	DST	55.00	2015	V. Girishkumar
AGB	Development of new meat type crossbred sheep with exotic Dorper breed	RKVY	100.00	2014-15	Nagaraja, R.
AGB	Studies on molecular genetic diversity of reproductive trait gene in indigenous sheep	KVAFSU	-	2016-17	Nagaraja, R.
AGB	Studies on molecular genetic markers for traits of economic importance in crossbred cattle	KVAFSU (TSP)	1.00	2017	R. Nagaraja
AGB	Studies on genetic polymorphisms of candidate genes for meat quality in Mandya sheep	KVAFSU (SCSP)	1.00	2017	Naveen Kumar, S.
AGB	Studies on genetic polymorphic pattern of reproductive trait genes and their relationship with cystic ovarian disease in crossbred cattle	KVAFSU	-	2017	Nagaraja, R.
AGB	Genetics of Disease Resistance against Mastitis in Cattle	KVAFSU	-	2017	Yathish, H. M
AGB	Genetic characterization of genes defining disease resistance in Giriraja and Indigenous chicken	KVAFSU (SCSP)	1.00	2018	Naveen Kumar, S
AGB	Characterization of DAZL Gene SNPs pattern in indigenous sheep breeds	KVAFSU (TSP)	0.50	2018	Nagaraja, R.
AGB	Establishment of Microsatellite patterns in indigenous goats	KVAFSU (TSP)	0.50	2018	Nagaraja, R.





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BIDAR

ANN	A study on evaluation of selected tree leaves as fodder source by chemical, in vitro and in situ methods	KVAFSU Bidar	-	2017-18	Prabhu, T. M.
ANN	Implementation of Karnataka Watershed Development Project [KWDP-II-(Sujala-3)] in Tumkur District	WDD – Sujala -III	20.00	2017-18	Prabhu, T. M.
ANN	Utilization of jackfruit residue silage for economical sheep production during scarcity periods	KVAFSU Bidar	-	2017-18	Suma, N.
VBC	FIST, DST	DST, Delhi	59.50	2015	V. Girish Kumar
VBC	Physio-biochemical and reproductive parameters in captive tigers	Zoo Authority of Karnataka, Bengaluru	1.50	2016	V. Girish Kumar
VBC	Role of TLR in tigers	Univ. Approved	-	2017	H.S. Ramesh
ILFC 1)	Association study of genetic variants at Single Nucleotide Polymorphism of the MBL 1 gene with mastitis in Holstein Friesen crossbred and Deoni cattle	SCP and TSP Grants, KVAFSU, Bidar	1.00	2017-18	Shankarappa Bhajantri
ILFC 2)	Karyological studies in local goats of Karnataka	SCP & TSP Grants, KVAFSU	1.00	2017-18	Shankarappa Bhajantri
LPM	Determination of voluntary feed intake and nutrient utilization of leguminous, non-leguminous and tree fodders in Bannur sheep	KVAFSU, Bidar	-	2017	Mahadevappa, D. Gouri
LPM	Establishment of facilities for Behavioural studies in Sheep/Pigs	KVAFSU, Bidar	-	2017	Y.B. Rajeshwari





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LPM	Assessment of the feed intake and digestibility of diets based on spineless Cactus (<i>Opuntia ficus indica</i>) and Moringa (<i>Moringa oleifera</i>) in adult sheep	KVAFSU, Bidar	-	2018	Madhura, Y.
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VETERINARY COLLEGE, BIDAR

LPT	Effect of essential oils in combination with edible packaging on stability of emulsion based chicken products stored under refrigerated and frozen condition	SERB, New Delhi	27.30	2017	Kiran, M.
VAH&E	Movement of veterinary graduates in southern India-A career path analysis	ICAR	4.01	2017	Channappa gouda Biradar
	Establishment of hatchery units for supply of chicks to backward poultry farmers	RKVKY	35.00	Unspent amount of 2012-13 project	Satishchandra Biradar

VETERINARY COLLEGE, SHIVAMOGGA

VAN	Validation of Bioscaffold (dECM) Technology	IIT, Hyderabad; NITK, Suratkal; SCIMST, Trivandrum; MCOPS, Manipal & JSS AMC, Mysuru	-	-	Dhoolappa, M.
ANN	Study of in vitro nutritional value of Jack Fruit (<i>Artocarpus heterophyllus</i>) and its residues as an unconventional feed stuff to ruminants	KVAFSU	-	2017-18	V. Nagabhushana
ANN	Nutritive evaluation of <i>melia dubia</i> (hebbevu) in kids by <i>in-vitro</i> and <i>in-vivo</i> methods	SCP/STP	-	2017-18	K.S. Giridhar



RURAL ORIENTED & FARMER FRIENDLY

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VPE	e-Varaha: Information System for Safe Pork Production in North Eastern India	ITRA, GOI	16.83	2016	Nagappa Karabasanavar
VPE	Genotyping and genetic diversity studies of <i>Escherichia coli</i> and <i>Salmonella enterica</i> from animals and foods of animal origin	SCSP/TSP Grants, GOK	1.00	2018	Prashanth, S. Bagalkote
VPT	Establishment of Obscure Disease Research Centre at Veterinary College, Shivamogga	GoK sponsored project-Five years	100.00	2017	N.B. Shridhar
VPT	Validation of ethnoveterinary practices in the management of common ailments of livestock	RKVY	16.50	2016-17	N.B. Shridhar
VPT	Induction of lactation in unproductive animals	RKVY	30.00	2016-17	N.B. Shridhar
VAE	Livestock support and Extension Activities	KWDP-Sujala, GoK	24.05	2014	K.C. Veeranna
LPM	Characterization and Performance evaluation of Indigenous/Native Chicken of Shivamogga District.	KVAFSU	0.60	2016	Verannagowda, B.G.
LPM	KWSDP –II Sujala-III Livestock support and Extension Activities	KWSDP – II Sujala-III	-	2017	Krishnamurthy, T.N.
LPM	Establishment of hatchery units for supply of chicks to backward poultry farmers	RKVY	45.00	2017	Krishnamurthy, T.N.
AGB	Karyological studies in Malnad Gidda cattle	KVAFSU	0.50	2016	Rudresh, B.H.
LPT	Upgrading the facilities in the area of meat processing including establishment of mini abattoir and quality control	MoFPI under NMFP	75.00	2013	B.A. Desai
LPT	Development of enrobed chhanna balls with incorporation of different level of spice mix	-	-	2017	B.A. Desai





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SHIVAMOGGA DISTRICT COLLEGE

VPP	Prevalence of pathological conditions of Small ruminants in in Shivamogga District	SCP/TSP Grant	1.00	2017	Jayaramu, G.M.
VMD	Studies on Seroprevalence, Haematogy and Biochemical aspects of Anaplasmosis in Cattle in and around Shivamogga	KVAFSU Bidar	0.60	2016-17	Suresh Patel Revanna
VMD	Seroprevalence, Immunological and Molecular studies on Schistosomes of cattle and buffaloes in Malnad region	SCSP-TSP	1.50	2016-17	Suresh Patel Revanna
VMD	Studies on Seroprevalence of vector borne diseases in dogs in Shivamogga district	SCSP-TSP	0.60	2016-17	Suresh Patel Revanna
VMD	Studies on Seroprevalence of vector borne diseases in dogs in Shivamogga district	TSP	0.54	2017-18	Suresh Patel Revanna
VMC	Molecular identification of infectious agents associated with different disease conditions in captive wildlife in the vicinity of Malnad region	KVAFSU	0.40	2016-17	Sundaresan
VMC	Evaluation of causative agents and their antimicrobial sensitivity patterns in recurrent ear infections in canines	KVAFSU	0.20	2016-17	Arun
VETERINARY COLLEGE, HASSAN					
AGB	Herd registration and Field performance Recording of Hallikar cattle of Karnataka	NAFCC	55.00	2017	G.S. Naveen Kumar
ANN	Promoting micronutrient enriched chicken meat and egg production among rural women using Mobile App	DST, New Delhi	20.81	2017	Swetha, R.



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GADAG

LFC	To study the effects of genetic up gradation and adopting of artificial breeding interventions and in non descriptive goat flock – A plot study	SCP-TSP grants	0.40	2017	Shrikanth Dodamani
TVCC	Ultrasonography in the diagnosis of thoraco-abdominal disorders in sheep and goats.	KVAFSU	-	2016	Manjunatha, D.R.
VAE	Livestock extension and support activities under Sujala-II Watershed Programme	World Bank Funded GoK	15.62	2014	Manjunatha, L.
VPA	Backyard Rabbit Farming for rural women empowerment	DST	52.88	2016	H. Dhanalakshmi
VPB	Life Cycle Assessment of Green House Gas Emission from Different Animal Production systems of Karnataka State	ICAR-NICRA	27.15	October 2016	Hemanth Gowda, K.
VPB	Coconut Shell Oil Based Ecofriendly Therapeutic Products	CDB, Kochi, GOI	23.20	November 2017	Hemanth Gowda, K.
VPT	Validation of Ethno veterinary practices on the management of Common ailments of Livestock.	RKVY	10.00	2017	Ravikumar, C.
VSR	Evaluation of the healing pattern of absorbable test suture in rabbits	KVAFSU	7.47	2017-18	Ranganath, L.
VETERINARY COLLEGE, GADAG (VCG)					
TVCC	Screening of Buffaloes for Q fever infection at selected villages of Dharwad	KVAFSU	0.60	2016	Santosh, P. Sarangamath
TVCC	Assessment of Parasitic burden among 4 species of antelopes of Binkadakatti Zoo in Gadag	KVAFSU	-	2017	Santosh, P. Sarangamath
VAHE	Promotion of intensive cultivation of Sesbenia fodder tree crops for improving the efficacy of production of Dairy Cattle in Gadag taluka	KVAFSU	-	2017	Sushanth Handage



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ILFC	Studies on Performance of perineal sorgum in northern dry zone of Karnataka	KVAFSU	-	2017	Mahantesh Nekar
DAIRY SCIENCE COLLEGE, BENGALURU (DSCH)					
DC	Studies on the therapeutic properties of the fermented milks incorporated with oats (<i>Avena sativa</i>)	KVAFSU	0.25	2016	Jayashri, P. Hiremath
DC	Studies on chemical and microbiological quality of UHT treated commercial milk samples	KVAFSU	0.15	2017	Shilpa Shree, B.G.
DC	A study on development of clarified kokum whey drink	KVAFSU	0.75	2017	M. Rajanna
DMC	Propagation of kefir grains as ready to set <i>dahi</i> culture	SCSP-TSP Grants	0.75	2017	Malashree, L.
DAIRY SCIENCE COLLEGE, KALABURAGI (DSCK)					
DT	Standardization of production of Pumpkin Halwa - A local sweet of Hyderabad Karnataka	KVAFSU	0.10	2017	Sharangouda, B.
COLLEGE OF FISHERIES, MANGALURU (FCM)					
Aqua	All India Network Project on Mariculture	ICAR-CMFRI, Kochi	13.50	2016	E.G. Jayaraj
Aqua	Effect of poly herbal components on growth survival, immune response and disease resistance in white leg shrimp <i>Litopenaeus vannamei</i>	M/s. Natural Remedies, Bengaluru	8.00	2017-18	H. Shivananda Murthy
Aqua	Evaluation of efficacy of Mangala setright and Mangala borosan on water quality and fish production	Mangalore Chemicals & Fertilizers Ltd.	4.96	2015	Ganapathi Naik, M.
Aqua	Effect of dietary ashwagandha (<i>Withania somnifera</i>) on Nile tilapia (<i>Oreochromis niloticus</i>) and green tea (<i>Camellia sinensis</i>) on common carp (<i>Cyprinus carpio</i>) in terms of growth, survival, disease resistance and hematology	SCSP/TSP Grant	1.00	2018	Ganapathi Naik, M.



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Aqua	Novel molecular approaches for advancing prediction and mitigation of disease outbreaks in aquaculture for small scale farmers	Indo-UK. DBT-BBSRC project	71.95	2016	M.N. Venugopal
FMC	DBT – Bioinformatics – Distributed Information Sub Centre (DISC)	DBT	6.98	-	M.N. Venugopal
FMC	Development of therapeutic phage consortia to manage <i>Aeromonas hydrophila</i> infection in aquaculture systems	DBT (NER-BPMC; BCIL)	20.98	2017	S.K. Girisha
AEM	Ecological monitoring of Arabian Sea receiving effluents from MCF Ltd	MCF, Ltd. Mangaluru	5.50	2017	Gangadhara Gowda
AEM	Analysis of sea water monitoring at Marine outfall discharge point- MSEZ	Mangalore SEZ limited	7.10	2017	Gangadhara Gowda
AEM	Bio-monitoring studies of treated effluent Sequent Scientific Limited, Baikampady, Mangaluru	Sequent Laobora-tory, Mangaluru	0.45	2017	Ganagadhara Gowda
AEM	Monitoring of pollution impact by discharge of treated effluents from BASF, Mangaluru	BASF (Dyes & Dis.), Mangaluru	6.32	2017	Lakshmi pathi, M.T.
AEM	Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point, off Padubidri	Udupi Power Corporatio n Limited, Mangaluru	7.84	2017	H.R. V. Reddy
AEM	Assessment of water quality along fisheries harbour, South Wharf, Mangaluru	SCP/ST Grants, KVAFSU	1.50	2017	A.T. Ramchandra Naik
FRM	Sustaining livelihood security in rural women of Dakshina Kannada - Integrated Livestock and Fisheries Production	DST, Govt. of India, New Delhi	45.64	2014	Mridula Rajesh





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M	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 District of Karnataka	SERB – DST, New Delhi	11.00	2016	Kumar Naik, A.S.
FET	Study the efficiency of the conventional fabricated aerators and its influence on the growth of aquatic organisms	SCSP/TSP	2.50	2018	S. Varadaraju
FPT	All India Coordinated Research project on Post-Harvest Technology	ICAR-CIPHET, Ludhiana, Punjab	-	2010	C.V. Raju
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU					
IAH and VB	All India Co-ordinated 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% ICAR; State-25%.	50.00	1997	S.M. Byregowda
IAH and VB	Southern Regional Disease Diagnostic Laboratory	Governme nt of India	264.00	1999	S.M. Byregowda
BPD	Standardization and production of species specific antisnake venom from chicken eggs	RKVY	50.00	2015-16	Shoba Rani, M.
BPD	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	2014-15	S.M. Byregowda
IAH and VB	Ultramodern laboratory facility for production of vaccines against sheep diseases and zoonotic diseases	Govt. of Karnataka	2700.00	2017-18	S.M. Byregowda





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BPD	Modification of animal challenge facility for testing vaccines as per GMP	Govt. of Karnataka	500.00	2017-18	S.M. Byregowda
BPD	Livestock methane reduction through immunization based approaches	DBT	4.70	2014-15	S.M. Byregowda
IAH and VB	Screening for Genetic Disorders in Breeding Bulls in Karnataka State		235.00	2014- 15	M.D. Venkatesha
BPD	Development of Bicistronic DNA vaccine for Classical Swine Fever with GM-CSF as a molecular adjuvant	Govt. of Karnataka	32.00	2017-18	S.M. Byregowda
IAH and VB	Establishment of Veterinary Forensic lab	Govt. of Karnataka	560.00	2016-17	S.M. Byregowda
IAH and VB	Establishment of Referral Diagnostic Laboratory at Davanagere	Govt. of Karnataka	300.00	2016-17	S.M. Byregowda
BPD	Food and Mouth Diseases vaccine Production facility-plan	Govt. of Karnataka	10000.00	2017-18	S.M. Byregowda
BPD	Standardization of dose reduction of Black Quarter vaccine	IAH and VB	3.00	2014-15	S.M. Byregowda
BPD	Development and Evaluation of an Antigen Capture Enzyme-Linked Immunosorbent Assay (AC-ELISA) for the Diagnosis of Classical swine fever	IAH and VB	3.00	2017-18	Ranganatha
BPD	Production, standardization and evaluation of reduced dose of <i>Brucella melitensis</i> rev 1 live vaccine and comparison of its protection by subcutaneous and conjunctival routes”.	IAH and VB	2.00	2017-18	Sumathi, B.R.
BPD	Production of combined PPR and goat pox vaccine for goats	IAH and VB	4.00	2017-18	Amitha Reena Gomes





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BPD	<i>Peste des petits ruminants virus</i> yield in Expanded surface roller culture bottles for vaccine production – A comparative study	IAH and VB	1.00	2017-18	Amitha Reena Gomes
BPD	A comparative study of yield of viable spores of Sterne strain of <i>Bacillus anthracis</i> in casein digest agar (sporulation agar) and nutrient agar	IAH and VB	1.00	2017-18	Kavitha, G.
BPD	Development of Multi component clostridial vaccine	IAH and VB	2.00	2017-18	Sumanth Kumar, R.
BPD	Development of cell free Enterotoxaemia Toxoid vaccine	IAH and VB	2.00	2017-18	Sumanth Kumar, R.
WADDL, Banerghatta	Epidemiological prevalence of Haemoprotzoan parasites in the Captive Wild Animals	IAH and VB	0.80	2017-18	Manujunatha, V.
SRDDL	Study on parasites and associated pathology in Sheep and Goats	IAH and VB	1.00	2017-18	B.P. Shivshankar
IAH and VB	Screening of faecal samples for parasitic load and correlating pathomorphological and histopathological changes in small ruminants of Yadgir district	IAH and VB	1.10	2017-18	Shesha Rao
BPD	Molecular characterisation of challenge strains of bacterial and viral vaccine HS, BQ, ET and anthrax	IAH and VB	2.00	2017-18	M. Sobha Rani
BPD	Prevalence of bovine viral diarrhoea in bovines of South Indian organized farms	IAH and VB	1.00	2017-18	M. Sobha Rani
BPD	Molecular characterisation of viral vaccine candidates namely PPR,CSF RABIES, KFD and blue tongue viruses	IAH and VB	2.00	2017-18	M. Sobha Rani





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BPD	Molecular characterisation of bacterial vaccine strains of HS, BQ, ET and anthrax	IAH and VB	2.00	2017-18	M. Sobha Rani
BPD	Sero-prevalence of brucellosis in veterinary professionals in Karnataka	IAH and VB	0.50	2017-18	M. Sobha Rani
IAH and VB	Study on arthropod infestation in the captive wild animals and birds and their pathomorphology on the host	IAH and VB	1.55	2017-18	Sudharani, R.
IAH and VB	Screening for Genetic Disorder in Malnad gidda and Deoni Breeds by PCR technique	IAH and VB	1.00	2017-18	Venkatesha, M.
IAH and VB	Molecular characterization of bovine and ovine <i>Bacillus anthrax</i> isolates from different regions of Karnataka	IAH and VB	1.50	2017-18	Shivaraj, M.
IAH and VB	Diagnosis of Brucellosis from semen samples of seropositive breeding bulls by PCR studies	IAH and VB	2.00	2017-18	Shivaraj, M.
IAH and VB	Diagnosis of Johnes disease from semen samples of seropositive breeding bulls by PCR studies	IAH and VB	2.00	2017-18	Shivaraj, M.
LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED					
LRIC (Deoni)	Field performance recording of Deoni cattle in Bidar District	Nation Project on Bovine Breeding	60.00	2017	Vivek, M. Patil
LRIC (Deoni)	Establishment of a Model Deoni Farm in Bidar District	Rashtriya Gokul Mission	100.00	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 (Sheep)	Mega Sheep Seed Project (Mandya Sheep) (ICAR funded project)	ICAR	28.30	2009	Siddalingamurthy, H.K.





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LIVESTOCK RESEARCH AND INFORMATION CENTER (A), KONEHALLI					
LRIC (A)	Establishment of Amrithmahal cattle breeding station at Livestock Research and Information Centre (Amrithmahal) Konehalli, Tiptur	DAH&VS	251.00	2009-10	M.S. Rudraswamy
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL					
FRIC, Hebbal	Establishment of fish seed, production cum demonstration farms for extension activities	NFDB, Hyderabad	23.94	2014	K.N. Prabhudeva
FRIC, Hebbal	Monitoring water quality of few selected lakes (18 lakes) in Bengaluru city	LDA, Bengaluru	2.41	2017	K.N. Prabhudeva
FRIC, Hebbal	Utilization of saline, alkaline, and water logged areas for fish culture in Cauvery and Thunga Bhadra command area	RKVY, GOK	81.00	2017	K.N. Prabhudeva
FRIC, Hebbal	Utilization of seasonal water bodies for Aquaculture Demonstration under watershed areas in Chamarajanagar District under support for Livestock and Extension activities	Sujala-III Watershed Development, Bengaluru	19.12	2014	K.B. Rajanna
FISHERIES RESEARCH AND INFORMATION CENTER (MARINE), ANKOLA					
FRIC (Merine)	All India Network Project on Mariculture	CMFRI Kochi	13.50	2017-18	E.G. Jayaraj
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA					
FRIC-Bhutnal	Demonstratiion and Impact assessment of substract based aquaculture on poly culture of improved varity of Amur carp with other major carps in the district of Vijayapura Karnataka	SCSP/TSP Grants	15.00	2017	Vijayakumar, S.
FRIC-Bhutnal	KWDP- II (Sujala III) Project on support livestock and extension activities at Vijayapura District	Govt of Karnataka	12.97	2018	Vijayakumar, S.



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FRIC-Bhutnal	Establishment of Integrated fish farming units at FRIC, Bhutnal Vijayapura for promotion and easy approach to farmers	SCSP/TSP Grants	5.00	2018	Vijayakumar, S.
ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU					
AHP-K	Establishment of Centre of Excellence for transfer of technologies in animal production	RKVV	410.00	2017	Shivakuamr, R.
ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON-HAVERI					
AHP-S	Livestock Support and Extension Activities under Sujala 3, Gadag district	KWDP, GoK	14.00	2014	Shivakumar, K. Radde
ANIMAL HUSBANDRY POLYTECHNIC, DORNALLI-YADGIR					
AHP-D	KWDP- II (Sujala III) Project on livestock support and extension activities	World Bank	16.00	2015	Shesha Rao



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ABSTRACT OF ONGOING RESEARCH PROJECTS

#	College /Institute	Research Projects	
		Total Nos.	Amount (Rs. Lakhs)
1	Veterinary College, Bengaluru	22	272.00
2	Veterinary College, Bidar	03	66.31
3	Veterinary College, Shivamogga	22	314.32
4	Veterinary College, Hassan	10	212.53
5	Veterinary College, Gadag	04	0.60
6	Dairy Science College, Bengaluru	04	1.90
7	Dairy Science College, Kalaburagi	01	0.10
8	College of Fisheries, Mangaluru	17	215.22
9	IAH&VB, Bengaluru	34	14773.69
10	IWVR, Doddaluvara-Kodagu	-	-
11	Krishi Vigyan Kendra, Mangaluru-Dakshina Kannada	-	-
12	FRIC, Hebbal-Bengaluru	04	126.47
13	FRIC, Hesaraghatta-Bengaluru	-	-
14	FRIC, Bhutnal-Vijayapura	03	32.97
15	FRIC, Ankola-Uttar Kannada	01	13.50
16	LRIC, Nagamangala-Mandyā	01	28.30
17	LRIC, Hallikhed-Bidar	03	161.50
18	LRIC, Konehalli-Tumakuru	01	251.00
19	BRIC, Dornalli-Yadgir	-	-
20	CRIC, Timmapur-Bagalkot	-	-
21	AHP, Konehalli-Tumakuru	01	410.00
22	AHP, Kunnur-Haveri	01	14.00
23	AHP, Koravangala-Hassan	-	-
24	AHP, Bargi-Chamarajnagar	-	-
25	AHP, Dornalli-Yadgir	01	16.00
Total		133	16910.41



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b) Research Highlights

VETERINARY COLLEGE, BENGALURU

Title: Flash based innovative techniques for teaching 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 in under progress. In addition to that the video graph of the original fore limb dissection along with audition is also made. Description of the individual muscles and their blood supply is also highlighted in the animated E-Module. Lastly a quiz pertaining to the limb is also added in the text for the assessment of the student's efficiency.

Title: FIST (Infrastructure)

Under FIST program one photomicroscopic unit and vertical band saw were procured for UG and PG teaching.

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.
- * Mandya sheep were crossed with Dorper and F1's obtained (5 nos.)
- * Growth performance of F1's are being recorded
- * Purchase of Yalaga sheep (about 40 nos.) is 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 Mandya and NARI Suwarna sheep.
- * Further studies on characterization of polymorphic pattern of *DAZL* gene in Mandya, Hassan and NARI Suwarna sheep breeds is in progress.

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

- * Chemicals and other laboratory accessories are procured.
- * Harvesting of genomic DNA, PCR amplification and identification of molecular genetic markers is in progress.

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

- * Chemicals and other laboratory accessories are procured.
- * Harvesting of genomic DNA, PCR amplification is done
- * Characterization of candidate genes for meat quality in Mandya sheep is in progress.



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Title: Studies on genetic polymorphic pattern of reproductive trait genes and their relationship with cystic ovarian disease in crossbred cattle

- * Isolation of genomic DNA, PCR amplification and identification of polymorphic pattern of reproductive trait genes (*INHa*, *LHR* and *CYP19*) is completed.
- * Analysis of genotypic pattern and its relationship with COD in crossbred cattle is in progress.

Title: Genetics of Disease Resistance against Mastitis in Cattle

- * Blood and milk samples have been collected
- * Isolation and analysis of genomic DNA have been done
- * Somatic Cell count, CMT and Electrical conductivity of the milk samples have been done
- * Genotyping and analysis is in progress.

Title: Genetic characterization of genes defining disease resistance in Giriraja and Indigenous chicken

- * Blood samples were collected, genomic DNA is being harvested
- * Characterization of genes defining disease resistance is in progress.

Title: Characterization of DAZL Gene SNPs pattern in indigenous sheep breeds

- * Chemicals and laboratory consumables have been procured
- * Research activities initiated.

Title: Establishment of Microsatellite patterns in indigenous goats

- * Chemicals and laboratory consumables have been procured
- * Research activities initiated.

Title: A study on evaluation of selected tree leaves as fodder source by chemical, *in vitro* and *in situ* methods

- * Tree leaves of Hebbevu (*Melia dubia*), Nugge (*Moringa oleifera*), Acacia (*Acacia auriculiformis* and *Acacia mangium*), Kadu kanigalu (*Dillenia sp.*), Jack (*Artocarpus heterophylus*), Konda maavu (*Commiphora caudatum*), Agase (*Sesbania grandiflora*) and Subabul (*Leucaena leucocephala*) were procured and processed for laboratory evaluation.
- * Tree leaves samples were analysed for proximate principles, forage fibre fractions, *in vitro* gas production for metabolizable energy prediction, *in situ* (rumen) incubation for dry matter disappearance and protein digestibility estimation and *in vitro* DM digestibility by modified Tilley and Terry method.



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Title: Implementation of Karnataka Watershed Development Project

- * Obtained approval for the action plan related to livestock component for implementation in Tumkur District.

Title: Utilization of jackfruit residue silage for economical sheep production during scarcity periods

- * Jack fruit residue was procured from local vendors, farmers as well as from Jack fruit mela conducted at Lalbhagh, Bengaluru.
- * Chopped into smaller size and dried under sun to reduce the moisture to 65%.
- * Compactly filled into a 200 liter capacity plastic carboy manually, sealed airtight and stored.
- * **Feeding trial:** Selected eighteen male lambs of 5-7 months old and uniform body weight and distributed randomly to three groups of six each.
- * **Group 1:** Group of six animals will be fed with finger millet straw (FMS) as the sole source of roughage (Control group).
- * **Group 2:** Group of six animals will be fed with jack fruit residue silage (JFRS) to substitute 25% of FMS.
- * **Group 3:** Group of six animals will be fed with jack fruit residue silage (JFRS) to substitute 50% of FMS.
- * Animals of all the groups will be fed with compounded feed mixture (CFM) in equal proportion to balance the ration.

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

- * Milk and blood samples were collected from 50 HF crossbred and 50 Deoni cows.
- * Milk samples collected were screened for mastitis by CMT, EC and SCC Tests.
- * The DNA was isolated following high salt DNA extraction method
- * The OD260/280 ratio of the different DNA samples in the present study was observed to be in the range of 1.7 to 1.9, indicating high purity of the extracted DNA
- * The yield of DNA ranged from 380 to 667 µg with an average of 514 µg from 10 ml of blood.
- * The quality of extracted genomic DNA was determined by horizontal submarine agarose gel electrophoresis on 0.8 per cent agarose.
- * PCR conditions were standardized for MBL₁gene
- * Work is under progress.

Title: Karyological studies in local goats of Karnataka

- * The chemicals and biological reagents have been procured.
- * The work is in progress.



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Title: Molecular epidemiology and genomics of mastitis associated *staphylococci*

- * Eight hundred bacterial isolates of bovine and bubaline mastitic origin isolated from different geographic locations, maintained in the Department of Veterinary Microbiology, Veterinary College, Bengaluru and Shivamogga were revived.
- * Staphylococcal mastitic isolates were segregated and the purity of revived isolates were confirmed by phenotypic (staining morphology) and biochemical (*catalase*) properties.
- * For further study 30 per cent of the *staphylococcal* isolates were selected from each geographical regions ($n=96$) except Shivamogga where 50 per cent ($n=4$) of the isolates were chosen.
- * In all, 100 *S.aureus* isolates are selected for spa-typing and 133 isolates for MLST (100 *S.aureus*, 14 *S.epidermidis* isolates and 19 *S.chromogenes* isolates)
- * Extraction of genomic DNA of the selected isolates ($n=133$) was done using GeneiPureSMBacterial DNA Purification Kit.
- * PCR based confirmation of the species of isolates ($n=133$) under study was done targeting the nuc gene, sod A gene and rpo B gene for *S.aureus*, *S.chromogenes* and *S.epidermidis* respectively.
- * Spa gene (protein A determinant) has polymorphic region (X) consisting of a variable number of 24-bp repeats, short sequence repeats, which arise from deletion and duplication of the repetitive units and also by point mutation .The existence of well-conserved regions flanking the X region coding sequence in Spa allows the use of primers for PCR amplification and direct sequence typing.
- * PCR for the amplification of Spa gene was done using the primers and the PCR conditions adopted by Aires-de-Sousa *et al.* 2006.
- * Till date, 41 *S.aureus* isolates are subjected to PCR and Spa gene was amplified in all the isolates. The PCR products of all these isolates ($n=41$) are sent for sequencing.
- * Multilocus sequence typing (MLST) is a highly discriminatory method of characterizing bacterial isolates on the basis of the sequences of 450-bp internal fragments of seven housekeeping genes. For each gene fragment, the different sequences are assigned as distinct alleles, and each isolate is defined by the alleles at each of the seven housekeeping loci [the allelic profile or sequence type (ST)].
- * To date, three bubaline *S.aureus* isolates are subjected to PCR for amplification of seven house keeping genes and all the isolates showed amplification of all the seven house keeping genes. The sequencing results are obtained and allelic profile yet to be ascertained from MLST data base.

Title: Rabies Diagnosis and Quality Management Proficiency Tests

- * The World organization for animal Health (OIE) has established a global programme 'OIE Laboratory Twinning Programme' whereby its OIE reference centres build expertise for the most important animal diseases (including zoonosis) in priority regions through twinning with national laboratories to improve the global capacity for disease prevention , detection and control through better governance of veterinary services.
- * In this regard, OIE has recognized the Animal and Plant Health Agency (APHA), Surrey, U.K and Centres for Disease Control and Prevention (CDC), Atlanta, GA, USA for the purpose of supporting the project on 'Strengthening laboratory diagnosis of rabies in India'. In this



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direction, the KVAFSU / CVA / Crucell Rabies Diagnostic Laboratory, Dept. of Vety. Microbiology, Veterinary College, Hebbal, Bengaluru has been recognized as a twinning partner. As a part of this programme, three OIE workshops have been conducted at Veterinary College, KVAFSU, Bengaluru and one workshop at the APHA, United Kingdom during the year 2016-2017. The fifth workshop is being scheduled during the 19th to 23rd March 2018 at the CDC, Atlanta, GA, USA.

- * Standardized DFA, DRIT, LAMP for the diagnosis of rabies in animals.
- * Standardized RFFIT for seromonitoring of antirabies antibodies in vaccinated dogs and cats.
- * Standardized Reverse transcription-PCR, real time PCR for the detection of rabies virus in brain and other samples from animals.
- * Six MVSc and five Ph.D. students have worked on rabies and submitted their thesis.

Title: An open label multicentric field trial to study the safety and immunogenicity of Classical Swine fever vaccine in pigs

- * **IAEC approval was taken (VCH/IAEC/2017/40 Dated 22.05.2017).** Pigs of above 3 months age maintained at Dept of ILFC, Veterinary College, Bengaluru were screened for CSF specific antibodies using IDEXX ELISA Kit on 10.08.2017.
- * 40 seronegative pigs of above 3 months age were selected for the study and housed separately.
- * Group 1: CSF vaccine group: 30 pigs were vaccinated with CSF vaccine manufactured by Indian Immunologicals Ltd 1ml deep IM at neck region (18.09.2017). Group 2: Control group : 10 pigs were administered with 1 ml normal saline only
- * The animals were monitored and observed for any local (swelling, rashes, skin eruptions sloughing of mucous membrane) or systemic reactions / adverse reactions (fever, loss of appetite, Restlessness, diarrhea) for two months. Adverse reactions were not observed in animals.
- * Blood samples were collected from vaccinated animals after 30 and 60 days post vaccination. Serum samples were tested for CSF specific vaccinal antibodies using IDEXX ELISA kit. There was 100 % seroconversion observed in vaccinated group compared to control group.
- * Vaccine is found to be effective against Classical swine fever in pigs with good antibody response without any adverse reactions.

Title: Study on antimicrobial resistance (AMR) in Bovine Subclinical Mastitis pathogens to reduce it's occurrence and to improve economic status of farmers

- * Details and documents pertaining to civil works and purchase of equipments were submitted to University for e-Tendering process.
- * Detailed information about MPCS of BAMUL were collected from where samples has to be procured.
- * MAP depicting details of villages of each MPCS was obtained from Remote Sensing Centre, Govt. of Karnataka, Near GKVK, Yelahanka
- * Detailed discussion with KMF & BAMUL officials about project work was done and necessary permission was obtained.
- * Veterinary Officer of BAMUL were appraised about the collection of milk samples and detection of SCM.
- * Details pertaining to milking animals, number of house holds etc. in 2300 MPCS of BAMUL were collected.



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- * Necessary equipments and consumables were purchased, work is initiated.
- * Pursuing the sanction of remaining Rs.10 lakhs from Govt.of Karnataka.
- * Permission to engage contractual workers under the project miscellaneous expenditure was asked and the same was not approved from DR.The research work is initiated.

Title: Study of cell mediated immune (CMI) response in sheep vaccinated with inactivated Johne's disease vaccine

- * Necessary chemicals / reagents were procured
- * IAEC approval was taken.
- * Twenty sheep of age group 4-6 months (seronegative) were selected and maintained at LRIC Nagamangala
- * The study animals were randomly grouped into 2 groups with 10 animals in each group.
Group 1: Administration of inactivated MAP vaccine through subcutaneous (S/C) route.
Group 2: Control group (Unvaccinated animal).
- * Each animal will be challenged with live MAP culture on 75th, 77th and 79th day post vaccination (DPV) through oral route.
- * Study animals will be sacrificed on 90th, 240th and 300th DPV
- * Pre challenge and post challenge blood samples will be collected from each animal for evaluating the cell mediated immune response by Lymphocyte transformation test
- * Serum samples from vaccinated animals will be subjected to analyze for IFN gamma level.
- * Tissue samples from sacrificed animals will be subjected to analyze expression of CD4 + and CD 8+ T cells by immune histochemistry.

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

- * A total of 347 ticks were collected from endemic theileriosis sheep flocks located in Ramanagar, Chikkaballapura, Tumkur and Bengaluru Rural districts. Ticks were stored in 70% achohol and were identified as *Haemaphysalis kutchensis* (157), *Haemaphysalis bispinosa* (38), *H. intermedia* (23), *Rhipicephalus haemaphysaloides* (114) and *Rhicephalus sanguineus* (15). In PCR, none of the DNA samples from *Haemaphysalis bispinosa* and *Haemaphysalis intermedia* ticks showed amplification of amplicon size of 1098 bp specific for genus *Theileria*. PCR is in progress for other ticks species to detect the different species of *Theileria* organisms and also to know the vector potentiality of these ticks in transmission of specific *Theileria* species.

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°C for further molecular diagnosis.



RURAL ORIENTED & FARMER FRIENDLY

Title: Backyard Rabbit rearing for rural women empowerment

- * This project was initiated at Veterinary College, Hassan. Rabbit parent stock of superior germ plasm was purchased from CSWRI, Southern Station, Mannavanur, Kodaikanal, Tamilnadu. Fifty parent stocks (40 females and 10 males) were brought in the month of April 2017. Breeding started in the month of August 2017. Two trainings were conducted during November 2017 and January 2018. Each training programme consisted of 30 trainees. First training consisted of 5 women trainees and 2nd training programme consisted of 16 women trainees. A total of 10 farm women have been identified and one rabbit unit has been given to each one of them free of cost. The 10 farm women are under constant monitoring by the PIs and Co-PIs regarding rabbit farming activities. Extra male rabbits were given to those farm women who already own a rabbit farm, to upgrade their breeds. The breeds supplied include White giant, Soviet Chinchilla, Dutch, Black and Brown.

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

- * Setting up of cancer research laboratory within Department of Veterinary Pathology.
- * Procurement of major equipments for the project.
- * Procurement of necessary chemicals, glassware, and reagents.
- * Recruitment of Junior Research Fellowship (JRF's) – 1 No's.
- * Collection of Canine Mammary Tumor samples.
- * Preserving tissues for archives and mammary tumor registry database.
- * Processing of tissue samples for cytology, Histopathology, grading, staging and Histological classification.

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

- * Aflatoxin is produced and Biological trial is in Progress.

Title: Effects of Montmorillonite on performance and health of broiler chickens

- * *In-vitro* and *In-vivo* trial completed, lab analyses is in progress.



RURAL ORIENTED & FARMER FRIENDLY

Title: Determination of Bioactivity of synthetic Vitamin E acetate: Evaluation using antioxidant properties in broiler birds

- * Biological trial completed, lab analyses is in progress.

Title: Comparative Tolerance of Giriraja, Swarnadhora and Local fowl for Aflatoxicosis

- * Progress made: Aflatoxin production is in progress, Trial will be conducted shortly.

Title: Diagnosis of Rabies and Anthrax in Animals Diagnosis of Rabies

- * Brain samples from 32 cases were subjected to DFA analysis. The positive slide was represented by the appearance of apple green fluorescence inclusions of various sizes under fluorescent microscope and absence of inclusions was considered as negative (Plate. 5.2). These inclusions were seen either inside the neuron or scattered across the field (Plate. 5.1).
- * Semi quantitative analysis of viral inclusions from the brain samples were carried out as per CDC (2006), and the results include;
 1. +4: A massive infiltration of large and small inclusions of varying shape in almost every area of the impression (Plate. 5.3a).
 2. +3: Inclusions of varying size and shape were found in almost every microscopic field, the number of inclusions per field varies, but inclusions are numerous in most fields (Plate. 5.3b).
 3. +2: Inclusions of varying size and shape were present in 10 per cent to 50 per cent of the microscopic fields and most fields contain only a few inclusions (Plate.5.3c).
 4. +1: Inclusions of varying size and shape were present in <10 per cent of the microscope fields and only a few inclusions are found per field (usually only one or two inclusions per field) (Plate.5.3d).

Diagnosis of Anthrax

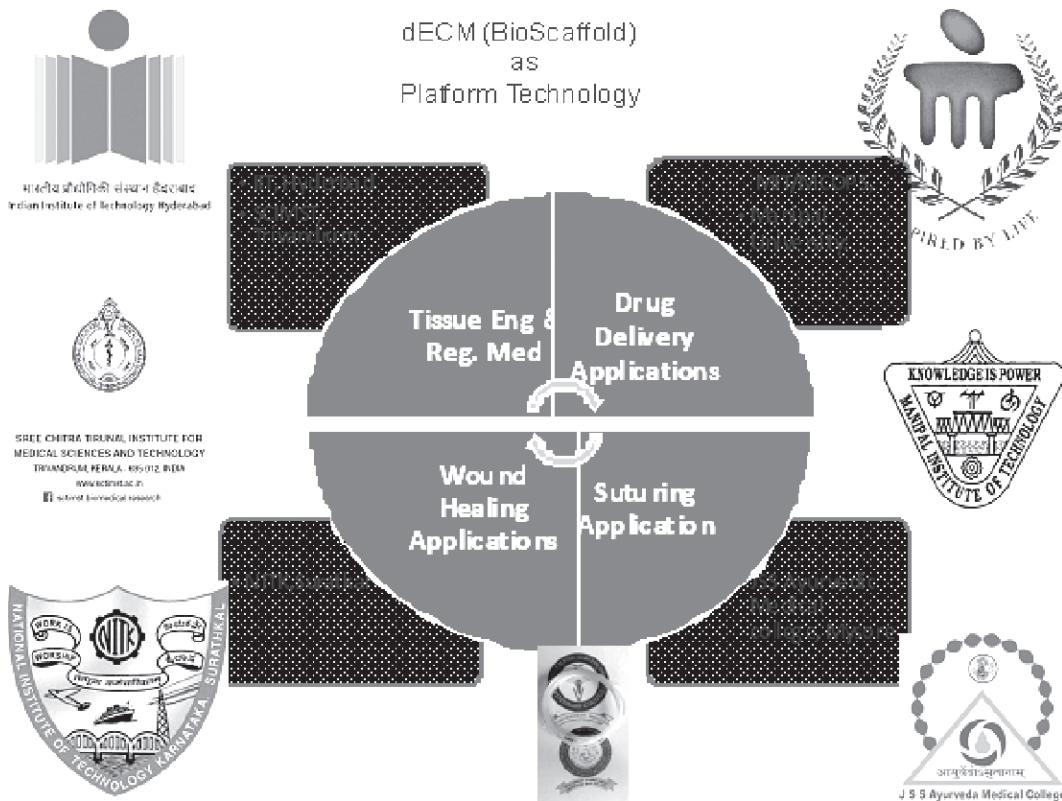
- * Identified *B. anthracis* from field samples collected during Anthrax outbreaks from Karnataka.
- * Molecular confirmation of the isolates using genes coding for protective antigen (PA) and capsule by polymerase chain reaction (PCR).
- * Standardized Co-agglutination test (CAT) for the detection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



RURAL ORIENTED & FARMER FRIENDLY
कृषि विद्या के लिए सेवा

VETERINARY COLLEGE, SHIVAMOGGA

Title: Validation of Bioscaffold (dECM) Technology



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

- * e-Varaha survey website was created and deployed. Structural schedules were developed for recording of marketing information from pig farmers, pig traders and pork traders.
- * Report on movement of Pigs, Pig-to-Pork and Pork within and outside NER was created.
- * Collection of infra-red thermal/ spectral images and corresponding pig health parameters is under progress
- * Prototype of *Image Analysis System* for detection of *Ascaris* eggs has been developed.
- * Unique identification code for registration of pigs using ICAR allotted animal identification numbers has been finalized. Work on development of data acquisition system is under progress. Prototype of portable device to capture RFID has been developed for field test. Unique identification number composed of 19 alpha-numeric character string is designed as per international guideline
- * Designing of information system for storing and retrieving of information related to traceability of pigs and pork is under progress.



RURAL ORIENTED & FARMER FRIENDLY

Title: Genotyping and genetic diversity studies of *Escherichia coli* and *Salmonella enterica* from animals and foods of animal origin

- * Procurement of chemicals is completed and Project work initiated

Title: Livestock support and Extension Activities

- * Organised 7 workshops on identified interventions, conducted 5 on farm demonstration on enrichment of low quality fodder. In addition 12 on farm demonstration on silage making were organised. Three on farm trials were conducted for integration of fodder and fodder trees in horticulture crops and farm ponds. Participatory research on detection and control of sub clinical mastitis was conducted in 4 villages. Twelve percent of samples were positive out of 1250 samples. Six fodder nurseries were established. Feeding regime based on body condition score is under progress in two villages.

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

- * The construction of slaughter house for sheep & 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 & 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 spectrophotometer, Laminar flow & Refrigerator etc. is under e-Tender procurement process.

Title: Prevalence of pathological conditions of Small ruminants in in Shivamogga District

- * For the present study, the cases received for post mortem examination at Dept. of Veterinary Pathology and field visits during the outbreaks will be considered. The farmers bringing such cases will be selected for tracing the pattern of mortality based on history, clinical signs and other observations. Prevalence will be studied according to the season and other environmental factors pertaining to geographical areas. The materials collected during necropsy will be subjected to various laboratory techniques to diagnose the infectious, noninfectious and obscure causes of mortality. Histopathological investigation will be carried out by various histochemical techniques. Microbial isolation and identification studies will be carried out. Parasitological identifications will also be carried out.

Title: Studies on Seroprevalence, Haematology and Biochemical aspects of Anaplasmosis in Cattle in and around Shivamogga

- * Blood samples are collected and screened for Anaplasmosis.
- * Hematology and biochemical analysis being done.
- * ELISA test performed.
- * Interpretations of results are being done.
- * Appropriate statistical analysis to be done.



RURAL ORIENTED & FARMER FRIENDLY

Title: Seroprevalence, Immunological and Molecular studies on Schistosomes of cattle and buffaloes in Malnad region

- * Serum sample collected from affected cattle and apparently normal cattle in the village where schistosomiasis is recorded.
- * Antigen preparation from adult worm is being taken up.

Title: Studies on Seroprevalence of vector borne diseases in dogs in Shivamogga district

- * ELISA rapid test kit (IDEXX) are procured and ELISA test is being done for suspected clinical cases.
- * Correlation of results with clinical problems is being assessed.

Title: Studies on Seroprevalence of vector borne diseases in dogs in Shivamogga district

- * PCR kits and plastic wares are procured.

DAIRY SCIENCE COLLEGE, BENGALURU

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

- * Therapeutic properties of *dahi* like *in-vitro* antioxidant property was 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 the 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 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 experimental *dahi* samples.

Title: Studies on chemical and microbiological quality of UHT treated commercial milk samples

- * Market samples were subjected for evaluation of storage stability is under progress.
- * Processing parameters adopted for the production of UHT milk have been monitored.
- * Quality analysis of milk utilized for the production of UHT milk is under progress.

Title: A study on development of clarified kokum whey drink

- * Optimum level of kokum and whey has been completed.
- * Study of physico chemical and storage stability of kokum whey drink is under progress.



RURAL ORIENTED & FARMER FRIENDLY

Title: Propagation of kefir grains as ready to set *dahi* culture

- * Propagated kefir grains with production of 3 grams for every 15 days.
- * The inoculum level of 0.5 per cent is identified as best for preparation of *dahi* as it sets milk in 8 hours at room temperature.
- * *Dahi* prepared using kefir grain had 0.70 per cent of lactic acid, with no ethanol and diacetyl production with 8.5 hedonic scale for acceptability.
- * Kefir grain remains at the bottom and can be collected and used as inoculum for further *dahi* preparation.
- * Kefir grains can be kept in refrigerator in boiled milk without disturbing for 15 days.
- * The milk can be removed and kefir grains are washed using potable water and further transferred to a clean dry container and boiled, cooled milk can be added and preserved in refrigerator.
- * Preserved grain can be used as inoculum for preparation of *dahi*.

DAIRY SCIENCE COLLEGE, BENGALURU

Title: Standardization of production of Pumpkin Halwa - A local sweet of Hyderabad Karnataka

- * Best quality Halwa was prepared by using well ripened Pumpkin without Khoa.
- * Well scraped, gritted Pumpkin mixed with 1:3 water and heated over slow fire for 150 min. until complete softening of gritted Pumpkin Halwa obtained.
- * Sugar at 1:1 of gritted pumpkin suits well.
- * Ghee was added at 150g/kg of Halwa.
- * Among sweeteners tried (sugar and jaggery) cane sugar suits well.

Physico – chemical and microbiological and shelf-life has to be studied for pumpkin Halwa.

COLLEGE OF FISHERIES, MANGALURU

Title: All India Network Project on Mariculture

- * Successfully induced captive maturity and delineated different maturity stages in sand whiting fish with formulated diets.
- * Milk fish is still in immature stage even at the end of 3rd year rearing and efforts are under way to induce precocial maturity in fish under captivity.
- * The fish seed survey of prioritized fish species indicated resources of mullets, sand whiting, red snapper and pearl spot along Udupi coast, while in Dakshina Kannada District, sandwhitings and mullets were restricted to Mulki-Pavanje stretches with no prioritized fish species between Gurupur-Nethravathi stretches.



RURAL ORIENTED & FARMER FRIENDLY

Title: Effect of poly herbal components on growth survival, immune response and disease resistance in white leg shrimp *Litopenaeus vannamei*

- * Highest mean weight of the shrimp was recorded in G6 treatment with a mean weight of 18.70 ± 1.05 g after feeding for 60 days. There was significant difference between the control group and the treatment groups.

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 75kg/ha. At this dosage, water quality parameters were maintained optimum range in the fish ponds. In case of Mangala setright, a dosage of 150kg/ha showed better growth performance in carps and water quality parameters were well maintained at this dosage.

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

- * Study involved the Biofloc and traditional shrimp farming based systems.
- * Molecular analysis as well as histopathology revealed the absence of diseases during the sampling period in both farm types.
- * The farmers reported good profitable yields.
- * Samples are being sent for sequencing on to understand the microbiome practice during culture operation.
- * Two farms near Udupi where traditional shrimp farming system is being practiced selected to study the effect of probiotic application on pond microbiome.
- * Water quality analysis, plate count and molecular analysis for OIE listed pathogens is being regularly performed and communicated for the benefit of farmer. These samples will be subject to amplicon sequencing upon completion of the culture period.

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

- * ***An silico approach in identifying potential outer membrane proteins in *Vibrio anguillarum* for use as candidates for vaccine development against the pathogen***

Vibrio anguillarum, is a major pathogen responsible for vibriosis in fish and shellfish. A reverse vaccinology strategy was used in screening and identifying potential outer membrane proteins that could serve as vaccine candidates suitable in vaccine development against this pathogen. Our analysis identified 23 antigenic outer membrane proteins which were highly conserved (>98% identity) across serovars of this bacterium. Of the 23, two were identified as outer membrane lipoproteins. Among the OMPs identified 18 were novel to this study and conserved across several *Vibrio* spp. with an identity of 21–93%. These potential vaccine targets identified could contribute to the development of effective vaccine not only against *V. anguillarum* but also across other *Vibrio* spp. In addition, several B-cell and T-cell epitopes were predicted for the novel OMPs in this study which could aid in narrowing down peptide selection in designing a suitable epitope-based vaccine.



RURAL ORIENTED & FARMER FRIENDLY

* **Study on the occurrence of clinical genotype *Vibrio vulnificus* in clams (*Meretrix meretrix*)**

Vibrio vulnificus is an opportunistic human pathogen causing gastroenteritis, wound infection and primary septicemia. *V.vulnificus* population has been divided into two main subpopulations: Clinical and environmental, with the clinical type mostly associated with disease condition. Typing methods based on the phenotypic and genotypic characteristics clearly distinguishes the two subpopulations of this bacterium. Screening of clams (*Meretrix meretrix*) obtained in and around Mangaluru revealed 38.5% (10/26) of clam samples to harbor *V. vulnificus* belonging to the Biotype 1 phenotype. Genotyping of strains using the 16S rRNA and virulence correlated gene (vcg) typing methods identified the isolates to be of 16S rRNA typeB and vcgC 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.

* **Evaluating the efficacy of dsRNA in combating White spot syndrome virus (WSSV) infection in *Penaeus monodon***

The White spot syndrome virus (WSSV) specific double stranded RNA (dsRNA) VP24, VP26, RR1 and wsv477 was tested for its efficacy in inhibiting WSSV replication in shrimp *Penaeus monodon*. The synthesized virus-specific dsRNA was tested by injection and oral delivery method. The estimated survival percentage rate for shrimps injected with wsv477, RR1, VP26 and VP24 dsRNA was 90, 80, 60 and 50 respectively. Similarly shrimps orally fed with feed incorporated with WSV477, RR1, VP26 and VP24 dsRNA showed mortality rates of 80%, 70%, 50%, and 50% respectively. The gene WSV477 showed higher potency against WSSV infection. The anti-viral activity of the dsRNA studied show promise for being used as agents to combat WSSV disease in shrimps.

* **Detection of viruses in the shrimp, *Penaeus vannamei* cultured in India**

Pacific white shrimp *Penaeus vannamei* Boone, 1931, is a recently introduced species in India. *P. vannamei* samples, collected from various shrimp farms of Karnataka, India were subjected to polymerase chain reaction (PCR) based detection of whitespot syndrome virus (WSSV), hepatopancreatic parvovirus (HPV), monodon baculovirus (MBV), infectious hypodermal and hematopoietic necrosis virus (IHHNV), taura syndrome virus (TSV) and infectious myonecrosis virus (IMNV). Out of the 81 shrimp samples analysed, 41 samples (50.6%) were found positive for WSSV and four (4.9%) were positive for IHHNV. Among 41 WSSV positive samples, 20 (48.7%) samples were found positive for WSSV by 1st step PCR, while the remaining 21 (51.2%) samples were positive by nested PCR. WSSV positive samples were further confirmed by dot blot hybridisation assay. However, clinical signs/disease symptoms were not observed in any of the shrimp samples tested positive for the viruses.

* **Study of multi-drug resistance genes in non-typhoidal *Salmonella* isolated from chicken and seafood**

Thirty-six *Salmonella* (8 poultry and 28seafood) isolates were identified, serotyped and tested for their antimicrobial susceptibility pattern against 10 antibiotics. Among the 36 *Salmonella* isolates, 20 were *S. weltevreden* (8 from poultry and 12 from seafood) and 16 were *S. Typhimurium* (from seafood). All the isolates showed multiple resistances to nalidixic acid, tetracycline, co-trimoxazole and nitrofurantoin, but, interestingly, the isolates were 100%



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susceptible to ampicillin, chloramphenicol and gentamicin. Resistant isolates from the study carried the genes responsible for resistance to respective antibiotics. The strain S130 isolated in the study showed single point mutation, Asp87Gly, at position 87 in quinolone resistance determining region which probably is a cause for quinolone resistance in non-typhoidal Salmonellae. The occurrence of genes accountable for plasmid mediated resistance to quinolones (viz., qnrA, qnrB and qnrS) in plasmid of non-typhoidal Salmonellae isolates provides evidence for plasmid mediated quinolone resistance.

* **Insight into a Transcriptional Adaptor Zinc Finger Encoded by a Putative Protein in the White Spot Syndrome Virus Genome**

The transcriptional adaptor zinc (TAZ) fingers are a specialized class of zinc finger domains reported to exist only in eukaryotic transcriptional coactivator proteins. A putative protein within the shrimp white spot syndrome virus (WSSV) encodes for a TAZ domain, which is unique as no virus so far has been reported for the presence of this domain. Our study shows the viral TAZ domain to be similar to TAZ2 rather than TAZ1 domain of eukaryotic CREB-binding proteins and its paralog p300 proteins. Furthermore, as with eukaryotic TAZ2 domain which interacts and binds to several transcriptional factors including the p53 tumor suppressor protein, an in silico docking study of the WSSVTAZ and the shrimp p53 transcriptional factor showed the two protein domains to be involved in a protein–protein interaction.

* **Assessing the presence of marine toxins in bivalve molluscs from southwest India**

A study was undertaken to assess the presence of marine toxins in mussels (*Perna viridis*) and oysters (*Crassostrea madrasensis*) grown in four different shellfish harvesting areas in some selected regions of southern Karnataka. The toxins analysed were ASP, PSP and lipophilic toxins, as well as a suite of non-EU regulated toxins such as tetrodotoxin and selected cyclic imines. Results revealed the presence of low levels of PSP toxins in oysters throughout the study period. Overall, total toxicities reached a maximum of 10% of the EU regulatory limit of 800 µg STX eq/kg. Toxin profiles were similar to those reported from the earlier 1980 outbreak. No evidence was found for significant levels of ASP and lipophilic toxins, although some cyclic imines were detected, including gymnodimine. The results indicated that the risk to shellfish consumers during this specific study period would have been low. Based on earlier evidence for extremely high levels of PSP toxins in molluscs, there is a strong need for routine surveillance of shellfish production areas for marine toxins, in order to mitigate against human health impacts resulting from unexpected harmful algal blooms, with potentially devastating socio-economic consequences.

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

Water/fish samples were collected water from fish ponds (College of Fisheries Mangaluru; Bengaluru - Hesaragatta, Chickmagalaru -Bhadra reservoir project (BRP), Shivamogga), rivers (Seetha river, Hebri; Netravathi river, Dharmasthala; Kaveri river, Dhubare, Agumbe and Abbey), creek (near Madikeri, Kuduremukha, Mulki, Kaipuja), tanks near Kolara, Channappakere (Sirsi), Baikampady (Mangaluru), sewage water (near Krushi Vigyan Kendra-Dakshina Kannada, Mangaluru), freshwater ornamental fish hatchery (Vamanjur, Mangaluru,) and diseased gold fish, rohu and catla (Fish farm, Mangaluru and Shivamogga) for the isolation of *A. hydrophila* and *Aeromonas spp.* and their specific phages



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- * A total of 121 samples which included 21 river samples, 59 fish tank/pond water samples, 11 creek water samples, 19 freshwater ornamental fish hatchery samples, 2 sewage samples, and 6 diseased fish were analyzed and Fifty six *Aeromonas* spp. were isolated targeting phospholipase gene.

The bacteriophage isolation was carried out from the same water samples, which were initially used for the isolation of bacteria. Totally six lytic phages specific to *A. hydrophila* (MTCC 1739) and NACA MCCB 113 were isolated.

- * Among them two phages isolated from riverine environment were specific to host *A. hydrophila* MTCC 1739; both were from two phages isolated from ornamental fish hatchery and one was specific to *A. hydrophila* MTCC 1739 and another phage was specific to *A. hydrophila* NACA MCCB 113.
- * Among two more phages were isolated from ponds / tank, one phage was specific to host *A. hydrophila* NACA MCCB 113 and another phage was specific to host *A. hydrophila* MTCC 1739.
- * All six isolated bacteriophages exhibited clear zone at the spotted region on the respective hosts bacterial lawn showing lytic activity of phages specific to their respective hosts. The presence of phage was also confirmed by passage with the same host.

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

- * Water quality in the study area was well within the ambient levels of coastal environment and 36 species phytoplankton observed and were represented by **Biddulphia** – (*Biddulphia regia*, *B. sinensis*, *Biddulphia mobiliensi*) **Chaetoceros-** (*C. lorenzianus*, *C. decipiens*, *C. compressus*, **Chaetoceros-** *C. lorenzianus*, *C. decipiens*, *C. compressus*) **Coscinodiscuss-** *C. oculus iridis*, *C. lineatus*, *C. excentricus*, **Nitzschia-** *N. closterium*, *N. striata*. BGA- *Trichodesmium sp.*
- * Zooplankton were represented 3, 23 species consisting **Tintinids-** (*Tintinopsis sp.* *Rabdonella sp.*). **Medusae-** (*Obelia sp.*, *Octocostatum sp.*). **Ctenophores-** (*Plurobranchia sp.*) and **Chaetognaths-** (*Sagitta enflata*, *Pterosagitta draco*, *Lucifer Lucifer*)
- * Benthic community consists of 19 groups, of which molluscs were dominated species followed by **Echinoderms, Echiuroids, crabs, shrimps and fishes.**
- * The biological diversity of plankton and benthos in the study area found to vary with time and space.

The bioassay studies of coastal water at the discharged point in the Arabian Sea revealed no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout.

Title: Analysis of sea water monitoring at marine outfall discharge point

- * Coastal water quality in the vicinity of discharge of point of MSEZL in the Arabian Sea was monitored by collecting the water, sediment, plankton, benthos and fishes on seasonal basis. Water quality parameter and their values are within the levels of coastal water standards
- * **Phytoplankton- consisted of 20 genera which mainly included** Diatoms (*Chaetoceros*, *Biddulphia*, *Coscinodidcus*) Dinoflagellates – (*Ceratium*, *Peridinium* were dominant) Blue green algae- (*Trichodesmium*)



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- * **Zooplankton** mainly consists **20 genera**, of Copepods, copepodites, tintinids, *Oikopleura*, and cladocerans.
- * **Benthos represented 15 genera** of which are Molluscs – Bivalve spats, *Meritrix*, *Donax*, *Dentalium* and *Umbonium* were dominant and Polychaetes such as *Neries*, *Nephtys*, *Polydora* were dominant. *Population density of polychaetes showed direct relationship with organic matter in the sediment.*

Heavy metals such as - Cd, Cr, Mn, Fe, Pb, Zn, Ni in water, sediments, phyto and zooplankton fin fish and shell fish samples with were within the permissible limit of coastal water quality.

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

- * Water, sediment, phytoplankton, zooplankton and benthos were collected and analysed by using standard methods from the vicinity of discharge point, off Arabian sea, Mangaluru and the water quality - within the ambient levels of coastal environment
- * Phytoplankton of 33 genera, mainly consisted of Diatoms (*Coscinodiscus*, *Biddulphia*, *Chaetoceros*, *Ditylum*) ; Dinoflagellates (*Ceratium*, *Peridinium*) Blue green algae- (*Trichodesmium*)
- * Zooplankton consists of 21 genera, of which Copepods, Copepod Nauplius, *Oikopleura*, Tintinids, Cladocerans were dominant
- * Benthos – 17 genera, in which Molluscs consists of bivalve spats (*Donax*, *Dentalium*, *Meritrix* and *Umbonium*) and Polychaetes (s *Neries*, *Nephtys*, *Polydora*)
- * Heavy metals in were well below the coastal standard limit
- * The bioassay studies reveal that there was no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout and o mortality of fingerling of *Cyprinus carpio* exposed to the water collected from the cooling pond from the vicinity of the industry (before discharging into the sea).

Title: Bio-monitoring studies of treated effluent Sequent Scientific Limited, Baikampady, Mangaluru

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

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

- * Water, sediment, phytoplankton, zooplankton and benthos were collected and analysed by using standard methods from the vicinity of discharge point, off Arabian sea, Mangaluru
- * The water quality parameters were found to be within the range of levels of coastal water standards
- * Phytoplankton were represented 32 genera which comprised of diatoms (dominant), followed by dinoflagellates and blue green algae
- * Zooplankton of 20 genera mainly represented by copepods, tintinids, oikopleura, polychaetes and decapod larvae showed their dominance in the area



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- * Benthos represented by 18 genera of which molluscs and polychaetes were dominant during the period
- * Heavy metals such as Cd, Cr, Mn, Fe, Pb, Zn, Ni during post monsoon and pre monsoon season in the sediment were with in the levels of coastal standards
- * Bioassay studies of revealed that there is no mortality in the mussels exposed to seawater collected from the vicinity of effluent fallout.

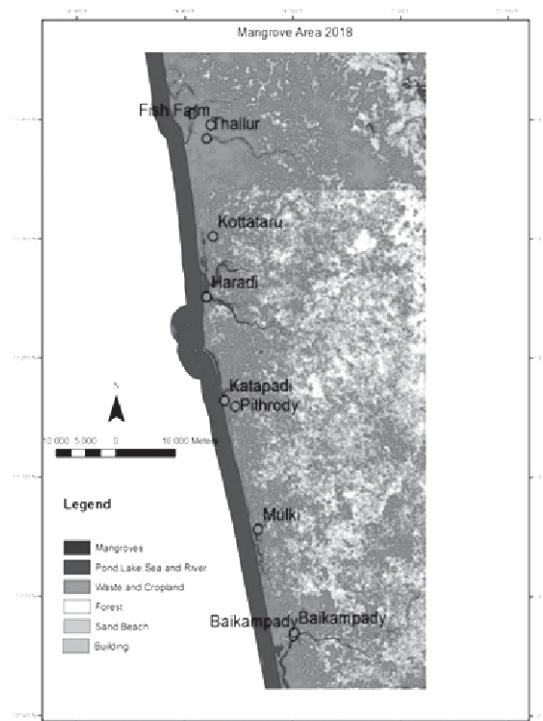
Title: Assessment of water quality along fisheries harbour, South Wharf, Mangaluru

- * Research sampling started from January, 2018. Water quality assessment and plankton productivity are being carried out by following standard procedures.

Title: Sustaining livelihood security in rural women of Dakshina Kannada - Integrated Livestock and Fisheries Production

- * The project is implemented in Belthangadi taluk of Dakshina Kannada district under two gram panchayaths, (Nada and Melanthabettu) 4 villages from each gram panchayath are selected for the study. The target groups are women who were small, marginal farmers and unemployed. The enterprises promoted are ornamental fishes, piggery, goats and poultry birds to 20 families who have not availed benefits for similar activities from any other source were selected. Preference was given to BPL card holders. To selected beneficiaries Entrepreneurial Training Workshop on goat, piggery, poultry and ornamental fishes for rural livelihood was organized.

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 District of Karnataka





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Field survey of the mangrove 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) is 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. Mangrove density and area was established using GPS. Mangrove distribution, change pattern etc were 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; All India Coordinated Research project on Post-Harvest Technology

Component: 01. Production of Fish Oil Concentrate Rich in Omega-3 Fatty Acids

- * Fresh sardine fish mince subjected various pH values (5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8 and 5.9) of citrate phosphate buffers. The minces meat mixed and homogenised with 15 ml of various pH values centrifuged at 20,000 rpm at 4° C for 30 min, the middle aqueous layers obtained at each pH values separated and the soluble protein concentration was determined. Solubility of protein ranged between a low level of 5.69 % at pH value 5.5 and a high level of 9.41 % at pH 5.0 and 5.9 thus indicating the iso-electric point (p^l) of sardine muscle protein to be 5.5. Further oil extraction by pH shift method was done as, sardine mince was mixed with deionized water at the ratio of 1:3 and the pH of the sardine muscle protein was adjusted to its iso-electric point (p^l) and centrifuged to remove oil. The percentage oil yield was 4.9%.



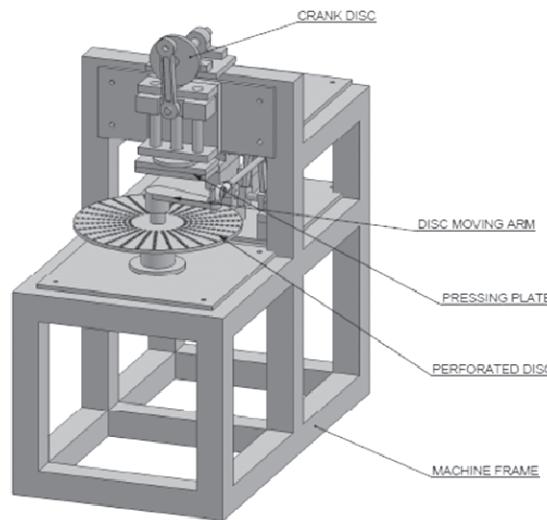
Separated fish oil

Component 02. Development of small scale Fish Meat Picking unit and its performance evaluation

A piston operated pressing type meat picking machine was designed by keeping the fishes on a perforated plate. The design of the pressing /piston type fish meat picking machine was finalized through drawing and auto cad designing. In this, the crank shaft operated through a motor will press the fishes placed on a perforated plate using a piston attached to the crank shaft. The disc moving arm will guide the disc (perforated plate) to move forward to feed the fishes to piston for pressing/compression. The fish meat will pass through the perforated plate and will be collected in a bowl. The fabrication of the finalized design is under progress.



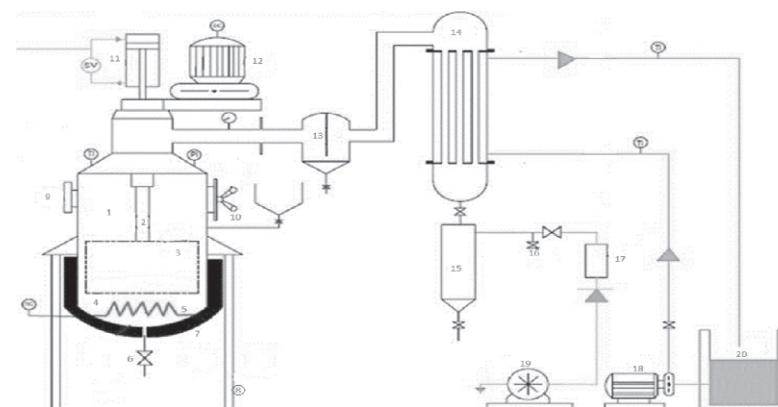
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Design of Piston type Fish meat picking machine

Component 03. Design and development of microprocessor controlled aspirated heat processor for the production of ready to eat fishery products

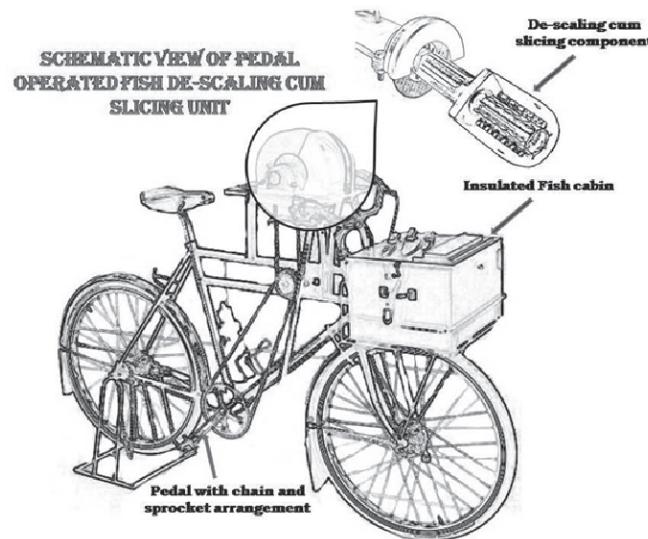
A piping and instrumentation diagram of the equipment has been prepared as per the design finalized with suitable components and assembling. The main components included vacuum frying chamber, frying basket, agitator motor, moisture separator, shell and tube condenser vacuum pump, electric heater, condensate collection unit, chilled water tank, oil separator, etc. Deformation study for the frying chamber under vacuum was conducted using ANSYS software and determined the critical thickness to be maintained at the bottom and in the cylindrical drum to avoid deformation during operation under vacuum. . Fabrication of the equipment would be started based on the availability of the funds from ICAR-AICRP on PHET.



1	Frying chamber	6	Oil drain valve	11	Basket lifting and rotating mechanism Agitator motor	16	Vacuum release valve
2	Agitator frying basket holding shaft	7	Mineral wool insulation	12	Agitator motor	17	Moisture separator
3	Frying basket	8	Stand (SS)	13	Oil separator	18	Chill water pump
4	Frying oil	9	Side view glass	14	Shell and tube condenser	19	Vacuum pump
5	Electric Heater	10	Product loading door	15	Condensate collection unit	20	Chilled water tank



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Component 05. Utilization of filleting waste or skeletal frames as a source of essential minerals

- Fish filleting waste / frame adhered with meat was procured from local fish processing unit and proximate composition determined. The frames were boiled at 1 % HCl (Hydrochloric acid) for 40 min at 70-80° C (1:3 ratio-Fish frame: HCl) and washed till to reach pH neutral. The treated frames were boiled at 0.8 % NaOH (Sodium hydroxide) for 40 min at 70-80° C (1:3 ratio-Fish bone: NaOH) and finally washed with distilled water and dried at 60° C for overnight and weighed. The dried material was autoclaved for 15 min at 121° C and again dried at 80-90° C for 8h. Material was ground to get fine particle and sieved at 60 mm sieve and stored in refrigerator. Fish bone powder was taken for proximate composition analysis and used for other biochemical and microbiological analysis.

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

Details of the Disease Outbreaks, Attacks and deaths due to Notifiable diseases in the State

SL. No.	Disease	OB's	Attacks	Deaths (%)
1	Anthrax	25	150	150
2	Black quarter	18	66	40
3	BR	0	0	0
4	Bluetongue	16	11924	2272
5	Haemorrhagic Septicemia	23	562	146
6	Enterotoxaemia	18	543	253
7	Sheep and Goat Pox	14	489	199
8	Peste des Petits Ruminants	7	248	118
TOTAL		121	13982	3178



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Details of the disease investigation carried out during 2017-18

SL. No.	Disease	OB's	Attacks	Deaths (%)
1	Anthrax	19	127	114
2	Black quarter	2	3	2
3	BR	1	7	-
4	Bluetongue	44	724	75
5	Hemorrhagic Septicemia	2	3	-
6	Enterotoxaemia	2	10	6
7	Sheep and Goat Pox	19	659	234
8	Peste des Petits Ruminants	7	188	56
9	Rabies	2	3	3
	TOTAL	98	1724	490

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

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-17	08	O	21	10	-	-	11	-	21
May-17	09	O	29	19	-	-	10	-	29
June-17	01	O	07	02	-	-	07	1746	1753
July-17	05	O	15	08	-	-	07	1728	1743
Aug-17	14	O	33	25	-	-	08	1920	1953
Sept-17	11	O	24	18	-	-	16	1728	1752
Oct-17	10	O	22	18	-	-	04	1536	1558
Nov-17	08	O	17	11	-	-	06	1536	1553
Dec-17	05	O	17	09	-	-	08	1536	1553
Jan-18	03	O	10	05	-	-	05	1536	1546
Feb-18	07	O	21	13	-	-	08	-	21
Total	81	-	216	138	-	-	78	13266	13482



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- * The regional center has received the pre and post vaccination serum samples of twelve and thirteen phase of FMD-CP. The 12th phase screening results indicated the seroconversion in vaccinated animals. These serum samples were screened by single dilution Liquid Phase Blocking ELISA (Sd-LPB-ELISA). The details of screening results carried out under FMD-CP Phase 12th phase are presented in table below. 6000 samples of pre and 6000 samples of post (Phase 12th) have been received from all the 30 districts.

Number & % animals showing titres $\geq 1.8 \log_{10}$ against FMDV							
Serotype-O		Serotype-A		Serotype-Asia 1		All three FMDV serotypes	
Pre-Vac	Post-vac	Pre-Vac	Post-vac	Pre-Vac	Post-vac	Pre-Vac	Post-vac
4505 (75%)	4942 (83%)	5247 (88%)	5386 (90%)	4642 (74%)	5021 (84%)	4196 (70%)	4739 (79%)

- * Serum samples were collected from 3 months old calf from all the 30 districts. 885 serum samples were collected from vaccinated calves at 0 day (n=307), 28 days (n=293) and 56 days (n=285) post vaccination. Overall protective titre against all three serotypes is as follows **0 day 18%, 26th day 52% and 56th day 43%**.

Title: Southern Regional Disease Diagnostic Laboratory

- * Samples were analyzed at Diagnostic Pathology
- * Samples were analyzed at Diagnostic Parasitology
- * Samples were analyzed at Diagnostic Bacteriology and Mycology
- * Samples were analyzed at Diagnostic Virology
- * Samples were analyzed at Sero epidemiology
- * Amples were analyzed at Biochemistry and Toxicology

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

Screening for Sexually Transmitted Diseases, carried out during 2017-18:

Sl. No.	Name of Scientists	Date & Place	No. of Animals
1.	Dr. Venkatesha M D Dr. Lohith T S	14.09.2017 To 15.09.2017 Frozen Semen Bank, Dept. of VGO, Veterinary College, Namakkal, TN	16
2.	Dr. Sudharani R Dr. Rashmi S	21.11.2017 to 24.11.2017 FSBS, Visakapatnam, Andhra Pradesh	60
3.	Dr. Shivaraj M Dr. Rashmi S	07.11.2017 to 10.11.2017SSCC, Hessaraghatta, Bengaluru	58



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4.	Dr. Shivaraj M Dr. Rashmi S	07.11.2017 To 10.11.2017 LBF, Hessaraghatta, Bengaluru	21
5.	Dr. Shivaraj M Dr. Rashmi S	07.11.2017 to 10.11.2017 SLBTC (Cows), Hessaraghatta, Bengaluru	78
6.	Dr. Shivaraj M Dr. Rashmi S	05.12.2017 to 12.12.2017 SLBTC, Hessaraghatta, Bengaluru, Karnataka	78
7.	Dr. Venkatesha M D Dr. Lohith T S	13.12.2017 to 16.12.2017 DLF, Hosur, Tamil Nadu	127
8.	Dr. Shivashankar B P	18.12.2017 to 22.12.2017 KLDB, Dhoni, Kerala	135
9.	Dr. Shivaraj M Dr. Rashmi S	19.12.2017 to 22.12.2017 CFSPTI, Hessaraghatta, Bengaluru, Karnataka	76
10.	Dr. B.M. Chandranaiik Dr. B.P. Shivashankar	29.01.2018 to 02.02.2018 FSBS. Karimangar, Telangana	80
11.	Dr. B.P. Shankar Dr. T.S. Lohith	29.01.2018 to 02.02.2018 FSBS, Eachenkottai, Tamil Nadu	186
12.	Dr. H.K. Muniyellappa Dr. B.P. Shivashankar	28.02.2018 to 02.03.2018KLDB, Kolathupuzha, Kerala	80
13.	Dr. R. Sudharani Dr. S. Rashmi	27.02.2018 to 02.03.2018FSB, Banavasi, Andhra Pradesh	109

Training programmes organized at SRDDL during 2017-18

Sl. No.	Title of the training organized& Place	Date	No. of participants
1	Organized “Master vaccinators training on vaccination strategies in disease control programme” at SRDDL, Bengaluru-24	23.06.2017	30
2	Organized one day workshop on “Brucellosis: Diagnosis and Control”	30.06.2017	15
3	Organized Hands on training on “High performance liquid chromatography (HPLC) in veterinary antibiotic residue analysis” at SRDDL, Bengaluru	05.07.2017 to 07.07.2017	6
4	Organized refresher training programme on “Control and Containment of Avian Influenza” at SRDDL, Bengaluru	29.07.2017	32



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5	Organized Avian influenza Training, by USDA, at Chennai, Tamil Nadu in coordination with TANUVAS, Chennai, Tamil Nadu	02.09.2017 to 08.09.2017	37
6	Organized BSE training for field Veterinarians, at SRDDL, Bengaluru	05.01.2018	17

NODAL OFFICERS MEETINGS CONDUCTED DURING THE YEAR 2017-18

Sl. No.	Dates of Meeting	Venue
1.	10.05.2017	Kavaratti, Lakshadweep
2.	15.09.2017	Namakkal, Tamil Nadu
3.	01.12.2017	Puducherry
4.	08.02.2018	Hyderabad, Andhra Pradesh

Title: JStandardization and large scale production of species specific Aanti- Snake Venom IgY in hen egg

- * 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 exclusively for production of ASV eggs
- * Immunization of these chickens with species snake venom was carried out after formulating the snake venom in suitable adjuvants
- * Booster dose administration has also been completed
- * Egg yolk separation apparatus was used to separate the egg yolk from the eggs collected from the immunised chicken
- * Further delipidation was done and IgY was precipitated using ammonium sulphate/PEG6000.
- * Precipitated IgY was further purified by dialysis in 0.1 N NaCl
- * The Dialysis purified IgY was further purified by Bio-Rad Duo Flow Liquid chromatography unit using High-Q prep pre-packed column followed by CHT-II polisher.
- * The Ion-exchange chromatography purified IgY was subjected to SDS page followed by western blot for confirmation

Title: Development and Evaluation of pentavalent Bluetongue vaccine for sheep and standardization of rapid diagnostics for early detection

- * BTV serotypes vaccine strains 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 the trial vaccine has been prepared to take up the trials
- * Type specific Primers for serotyping BTV-9, BTV-11, BTV-15 and BTV-22 have been procured and have been evaluated in Hyderabad
- * Hyper-immune sera have been raised in sheep. The cross neutralization studies have been carried out between serotypes



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- * 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 and amplification work is under progress
- * Monoclones for BTV diagnosis have been developed and trials are under progress for evaluation

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

- * Land Identification
- * User Requirement Finalized
- * Tender under progress

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

- * Land Identification
- * Tender under progress

Title: Livestock methane reduction through immunization based approaches

- * Initial culture work has been started
- * Preparing Standard operating procedures
- * Standardizing custom made media for cultivation

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

- * During the financial year April 2017- March 2018, a total of **208 DNA samples** were processed from blood samples by different DNA Isolation technique and preserved for further processing. All 208 DNA samples were subjected to PCR-RFLP technique and screened for genetic disorders like BLAD, BC, DUMPS and FXI deficiency in breeding bulls. Out of 208 samples **one animal (0.5% positive)** was found to be carrier for BLAD indicating the presence of disease in breeding bulls and hence it's mandatory to screening all breeding calf for genetic disorders. Regarding the Karyotyping for chromosomal abnormalities a total of **91 heparinised blood samples** have been processed from newly introduced breeding bull calves of all Karnataka breeding farm.

Title: Development of Bicistronic DNA Vaccine for Classical swine Fever with GMCSF as a molecular adjuvant

- * E2 gene was amplified cloned in plasmid vector, expressed and confirmed by prokaryotic expression system
- * Porcine GMCSF gene was synthesised and cloned in plasmid vector, expressed and confirmed by SDS -Page and immunoblot analysis
- * Constructed vaccine cassette with E2 IRES GMCSF fragments in the desired orientation in pCDNA vector



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Title: Establishment of Veterinary Forensic lab

- * Building for establishment of Veterinary Forensic Lab is ready.
- * Tender for internal modification of lab has been initiated (for 40 Lakhs).
- * Tender for purchase of new equipments for establishment of lab has been initiated (for 160 Lakhs)

Title: Establishment of Referral Diagnostic Laboratory at Davanagere

- * Location for building the referral laboratory building has been identified
- * Construction work of the referral laboratory building has been entrusted to KRIDL, Davanagere
- * Foundation stone was laid by Hon.ble Minister for Animal Husbandry and Sericulture. Sri. A. Manju
- * Construction work is under progress

Title: Food and Mouth Disease vaccine production facility-plan

- * Communicated with the ICAR foe
- * Land Transfer
- * Land Survey completed Ist Year 24.75 crores released
- * Tender under progress

Title: Standardization of dose reduction of Black Quarter vaccine

- * Production and standardization of dose reduced HS vaccine
- * Safety, sterility test done and found to be safe and sterile
- * Potency test along with challenge studies done in rabbits and mice and found to be potent

Title: Development and Evaluation of an Antigen Capture Enzyme-Linked Immunosorbent Assay (AC-ELISA) for the Diagnosis of Classical swine fever

- * Primers have been designed targeting cleavage site of “E2” gene of the CSFV
- * This gene is amplified, cloned and hybridoma cells with expressed protein has been obtained
- * From this expressed cells supernatant is taken for raising the monoclonals antibodies which will be done in April 2018

Title: Production, standardization and evaluation of reduced dose of *Brucella melitensis* rev 1 live vaccine and comparison of its protection by subcutaneous and conjunctival routes

- * Procurement of *B. melitensis* Rev 1 vaccine strain seed culture from IVRI, Izatnagar
- * Production of Rev 1 live vaccine dosage **4.0×10^9 CFU per dose and reduced dose 4.0×10^8 CFU per dose**
- * Testing of vaccine for sterility, safety, stability
- * Study of potency in mice and G. pig is in progress
- * Application for permission for animal experiments proforma submitted for CPCSEA committee for conducting safety and potency test in target species sheep and goat



RURAL ORIENTED & FARMER FRIENDLY

Title: Production of combined PPR and goat pox vaccine for goats

- * PPR virus is grown in vero cells
- * Goat pox virus is grown in vero cells
- * Vaccine is prepared
- * Procurement of goats is in progress

Title: *Peste des petits ruminants virus* yield in Expanded surface roller culture bottles for vaccine production –A comparative study

- * The growth of the cells was compared in both glass roller and expanded surface roller when seeded with cells from one roux flask
- * The growth of the virus was compared in both glass roller and expanded surface rollers
- * Titers of the vaccine was compared
 - o Glass rollers – $10^{5.83}$ TCID50/ml
 - o Expanded surface rollers – $10^{6.49}$ TCID50/ml

Title: A comparative study of yield of viable spores of Sterne strain of *Bacillus anthracis* in casein digest agar (*sporulation agar*) and nutrient agar

- * Cultivated spores of Sterne strain of *Bacillus anthracis* in Nutrient agar and Sporulation agar (3 batches)
- * Spores harvested and stabilized – Nutrient agar (3 batches)
- * Spores harvested from sporulation agar and kept for stabilization for 21 days (3 batches)
- * Viable spore count of vaccine concentrate determined – Nutrient agar (3 batches in triplicates)
- * Prepared Anthrax live spore vaccine – Nutrient agar (3 batches)
- * Purity and viable spore count of vaccine determined (3 batches in triplicates)
- * Submitted a proposal for CPCSEA approval for experimentation to carry out safety in sheep and guinea pig

Title: Development of Multi component clostridial vaccine

- * Characterization of *Clostridium Perfringens* type A and Type D.
- * Procurement of other cultures, *Clostridium Perfringens* type C and *Clostridium Septicum* are in process.

Title: Development of cell free enterotoxaemia toxoid vaccine

- * R& D scale production of Clostridium perfringens type D and separation of toxoid

Title: Epidemiological prevalence of haemopprotozoan parasites in the Captive Wild Animals

- * EDTA blood samples are collected from Tigers, Lions and leopard 20 each, Blood smears examination was done for all kinds of Haemopprotozoa, but we found Cytauxzoon and Haemobartonella all samples, blood smears are found positive for haemopprotozoa 4% in Lions, 3.5% in tigers and 2.0% in leopards



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Title: Study on parasites and associated pathology in Sheep and Goats

- * Adult worms, ticks, feces, skin scrapings, abomasum and intestine depending on the parasitic infection were collected during post mortem examination of 7 sheep ad goat carcasses and also from sheep during one disease investigation visit at field level.
- * External parasites identified as *Psoroptes ovis* causing mange in sheep and also *Hyalomma anatomicum* and *Rhipicephalus haemophysaloides* causing tick infestation in sheep.
- * Internal parasites identified in sheep and goats were *Moneizia expansa* in intestines and *Haemonchus contortus* in abomasum.
- * Gross examination showed encrustation and thickening of skin (ear pinna and around mouth) in mange cases and anemia, weakness, loss of body weight and dehydration in internal tape worm infestation and haemonchosis.
- * Tissue samples collected in 10% NBF are subjected for Histopathological examination and the results are submitted in due course of time as the samples collected were very few due to non-availability of suitable parasitic cases for post mortem examination and disease investigation.

Title: Screening of faecal samples for parasitic load and correlating pathomorphological and histopathological changes in small ruminants of Yadgir district

- * Screened 250 faecal samples of sheep and goats by direct smear examination, sedimentation technique and flotation technique in three talukas of Yadgir district for ova/ocyst which included organized farms and local animals.
- * External parasites, especially lice, ticks, flies and mites, identified by microscopic examination of the fur or by skin scrapings culturing the ova has done for confirmation
- * Conducted post mortem examination and record the pathomorphological and histopathological changes from organized farms and local animals.

Title: Molecular Characterisation of challenge strains of bacterial vaccines - HS, BQ, ET and Anthrax

- * Challenge strains from IVRI were procured. Challenge studies, for goat pox, anthrax and PPR were carried out. Reagents procured. Techniques for sequencing is standardized. Project is under progress.

Title: Prevalence of Bovine Viral Diarrhoea in bovines of south Indian organized farms

- * Totally 272 sera samples were collected from breeding bulls. All the samples were subjected to ELISA test for detection of BVD antigen to know the persistently infected animals.
- * None of the animals were positive for the BVD-ag.
- * Antibody detection for BVD could not be procured due problem at customs clearance.

Title: Molecular characterisation of viral vaccine candidates namely PPR, CSF, rabies, KFD and blue tongue viruses

- * Pure Cultures were prepared and characterized. Reagents were procured. Sequencing Procedures were standardized and project is under progress.



RURAL ORIENTED & FARMER FRIENDLY
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Title: Molecular characterisation of bacterial vaccine strains of HS, BQ, ET and Anthrax

- * Biological and biochemical Characterisation of bacterial vaccine candidates were completed. Reagents required were procured. Techniques for full genome sequence were standardized. Nucleic acid extraction of different strains was under progress. Full genome sequence of bacterial strains is under progress.

Title: Seroprevalence of Brucellosis in veterinary professionals in Karnataka

- * Totally 4050 sera samples were received from field veterinarians.
- * Result: Two hundred (204) samples i.e 5% were positive for brucella by RBPT.
- * Mysuru (7.39%), Ballari and Bagalkot districts were having high prevalence among the all the districts of Karnataka.

Title: Study on arthropod infestation in the captive wild animals and birds and their pathomorphology on the host

- * Preliminary screening of ectoparasites season wise (autumn and winter) has been completed.
- * Complete season wise (summer/rainy) study of ectoparasites, vector potentiality in disease transmission and pathomorphological changes in external and internal parasites infection is yet to be completed.

Title: Screening for Genetic Disorder in Malnad gidda and Deoni Breeds by PCR technique

- * Procurement of chemicals and consumables.
- * Random collection of blood sample from Malnad Gidda and Deoni breed.
- * Extracting the DNA from the sample;
- * Amplifying (using PCR) a nucleotide sequence that contains the site of the mutation; treating the amplified sequence with a restriction enzyme that cuts only the normal sequence; and electrophoresing the resultant DNA to reveal the number and size of DNA segments present.

During the financial year April 2017 to till date, a total of 60 DNA samples were processed from blood samples of Malnad Gidda breed by DNA isolation technique (Kit method) and subjected to PCR-RFLP technique and screened for genetic disorders like BC, BLAD, DUMPS & FXI deficiency in breeding bulls.

Name of Farm/Place	Breed	No of samples	Genetic Disorders							
			BC		BLAD		DUMPS		FXID	
			-ve	+ve	-ve	+ve	-ve	+ve	-ve	+ve
Animal Disease Diagnostic Laboratory and Information Centre, Sirsi	Malnad Gidda	60	53	00	60	00	60	00	53	00
Total		60	53	00	60	00	60	00	53	00



RURAL ORIENTED & FARMER FRIENDLY

Title: Molecular characterization of bovine and ovine *Bacillus anthrax* isolates from different regions of Karnataka

- * Objective one is achieved (36 total, 24 sheep/12 cattle)
- * Isolates need to be sent for sequencing
- * Restriction enzymes (Eco-RI and Hae III) - procured and need to do the analysis.

Title: Diagnosis of Brucellosis from semen samples of seropositive breeding bulls by PCR studies

- * Isolation attempt as per OIE protocol / literature was done from semen (four animals- 16 samples) - No isolates till date.
- * ELISA-Seropositive animals (four) from SSCC/SLBTC bulls (semen) was used for PCR studies – Ongoing

Title: Diagnosis of Johnes disease from semen samples of Seropositive breeding bulls by PCR studies

- * ELISA- Twelve seropositive animals from SSCC/ CFSP&TI bulls (semen) are subjected for PCR studies - Ongoing

LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA

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

- * The overall goal of Mega Sheep Seed Project –Mandy Sheep is genetic improvement of Mandy Sheep through selective breeding and supply of elite breeding rams to the beneficiary farmers to cover their breedable ewes for enhancing quality and quantity meat production. The total financial outlay of the project during current reporting period 2017-18 was Rs. 28.30/- lakhs, out of which a sum of Rs. 28,15,786/- has been utilized as on 31st March, 2018 (subject to final AUC). During the financial year ending 31st March 2018, 50 elite breeding Rams have been distributed to the 50 beneficiary farmers in the field to cover their 2196 breedable ewes. Since from the inception of the project a total of 333 elite breeding rams that were born and raised at the farm were distributed to the identified 342 farmers in the home tract to cover their 12,610 breedable ewes. Tutting and lambing percentage based on ewe available basis was found to be 97.09% and 93.46%, respectively, whereas the lambing percentage on tupped basis was 96.25 per cent. Live body obtained weight during 2017-18 at birth, 3 - month, 6 - month, 9 - month and 12 -month were 2.16 ± 0.01 , 11.14 ± 0.11 , 16.01 ± 0.09 , 18.24 ± 0.28 and 22.35 ± 1.16 kg, respectively. A total of 4185 progenies were born to the distributed elite rams in the beneficiary farmers field flock. Live body weight of the progenies of distributed rams during the period 2017-18 at birth, three, six, nine and twelve months of age were recorded to be 2.10 ± 0.01 , 10.61 ± 0.06 , 15.58 ± 0.20 , 17.53 ± 0.06 and 21.35 ± 0.08 kg, respectively. The growth performance of the progenies of the distributed Rams have been showing improvement from year to year in all the age groups over the average of then base population.



RURAL ORIENTED & FARMER FRIENDLY

LIVESTOCK RESEARCH AND INFORMATION CENTER (A), KONEHALLI

Title: Establishment of Amrithmahal cattle breeding station at Livestock Research and Information Centre (Amrithmahal) Konehalli, Tiptur

- * **Milk yield and its composition:** The Amrithmahal cows were non cooperative to assess their milk yield by direct measurements. Hence, a new method of assessment of milk yield was developed at the station "**Indirect method by weighing of calf before and after suckling**". Here, in this method the calves were weighed before and after suckling milk from cows twice a day - once in morning and evening. The difference in weight of calves was added up to obtain the milk yield of the cows per day. This was further projected as milk yield per lactation (kg/d). The composition of the milk was assessed using milk - O - tester. The milk yield (kg/d) ranged 1.6 to 2.4 kg.
- * Adoptiveness of the Amrithmahal cattle for humans (**Behavioral study**). The study was conducted to assess the adoptiveness of the Amrithmahal cattle for the humans / working labour. Here in out of 25 cows, 19 gradually cows were adopted by the working to Co-operate with the staff for weighment, handling of cows and calves, during treatment and other routine procedures. Any way they were not cooperative for the assessment of milk yield and body weight measurement etc. They followed stereo typed methods of herd behavior, tying at mangers, grazing.
- * **Hematological analysis:** The blood and serum of the all the animals were subjected for laboratory analysis for the following parameters: Hb, WBC, RBC, Platelets, Neutrophils, Lymphocytes, Eosinophils, Monocytes, SGPT, SGOT, BUN, Creatinine, Calcium, Phosphorus, Total Protein, Albumin, incidence of Johne's disease by indirect ELISA, FMD by ELISA.
- * The Haemoglobin (g %) values were ranged from 9.1 to 12.3; WBC($X/10^3 \mu\text{l}$) ranged from 3.9 to 19.1; RBC (X/ $10^6 \mu\text{l}$) ranged from 5.34 to 10.53; Platelet count (X/ $10^5 \mu\text{l}$) ranged from 64 to 419; Neutrophils (%) ranged from 20 to 78; Lymphocytes (%) ranged from 10 to 71; Eosinophils (%) values ranged from 03 to 20; Monocytes (%) values ranged from 01 to 03.
- * Results obtained by Serum analysis of the Amrithmahal cattle revealed that SGPT (U/L), a test to assess normal functioning of liver, ranged from 11.3 to 33.7; SGOT (U/L) ranged from 61.88 to 97.47; BUN (mg/dl) values have varied from 19.5 to 29.4; Creatinine (mg/dl) which is the indicator of kidney function test fell within range of 0.62 to 1.91.
- * Amrithmahal cattle were evaluated for mineral status in terms of calcium (mg/dl) ranging from 7.02 to 10.9; phosphorus (mg/dl) ranging from 5.40 to 9.17.
- * Nutritional status as observed by Serum analysis revealed that Total Protein (g/dl) ranging from 5.32 to 7.36; Albumin (g/dl) ranging from 2.22 to 3.69. Globulin by deductive calculation (Globulin=Total Protein-Albumin) ranged from 3.1 to 3.67 and the ratio of Albumin:Globulin ranged from 1.005 to 1.39.
- * The haematological and biochemical values of all the animals fell in normal range showing that the Amrithmahal stock at LRIC(A) was healthy, nutritionally sound and disease free.
- * The body scores of the animals ranged from 6.5 to 7.4 in a scale from 0 to 8 body condition scoring system.
- * Morphometric measurements: The animals were measured for heart girth, body length, height at withers, tail length, ear length, parietal girth, face length, horn length and other relevant body measurements every month. These were compared with the direct measurements of body weight to find the correlation.



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- * Morphometric measurements of cows (cm, minimum to maximum): Body length ranged from 96 to 119; height at withers ranged from 102 to 118; Chest girth varied from 115 to 143; Parietal girth observed within range of 118 to 136; face length 37 to 45; PL (forehead) 12 to 16; Horn length within range of 14 to 24; Ear length ranging from 15 to 19 and tail length ranging from 57 to 78.
- * Morphometric measurements of Bulls (cm, minimum to maximum): Body length ranged from 109 to 110; height at withers ranged from 115 to 122; Chest girth varied from 131 to 142; Parietal girth observed within range of 138 to 149; face length 42 to 43; PL (forehead) 15 to 15; Horn length within range of 16 to 17; Ear length ranging from 20 to 21 and tail length ranging from 63 to 74. The morphometric observations have shown growing prominence of the bulls over cows in terms of chest girth, body length, height at withers, horn length with age and towards maturity.
- * The parameters about age at maturity, age at mating, age at first calving, inter calving period, drafting capacity of bulls w.r.t. weight of bullock cart, drafting capacity of bulls w.r.t. working in field, drafting capacity of bulls w.r.t. hours of work, lactation length, number of services/conception and other relevant parameters are planned for tabulation.
- * Periodical vaccination, deworming, treatment for ectoparasites were followed to keep the animals healthy.

FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL

Title: Establishment of fish seed, production cum demonstration farms for extension activities

- * Till date no water facilities to fish ponds have been created and at present there are no Fisheries Scientists both at LRIC, Hallikhed and BRIC, Dornalli.

Title: Monitoring water quality of few selected lakes (18 lakes) in Bengaluru city

- * 18 selected lakes in Bengaluru city are being monitored for water quality.
- * Total Lakes monitored: 18
- * Period of Monitoring: March, 2017 to March, 2018
- * Water quality parameters monitored: Water temperature, pH, DO, BOD, CO₂, Nitrate, Phosphate, Lead, Mercury, *E. coli* and TPC

Results:

- * Water temperature exhibited a significant difference between the seasons and lakes.
- * pH exhibited a significant difference between the seasons and moderate difference between the lakes.
- * Dissolved Oxygen exhibited a highly significant difference between the seasons and lakes and in some lakes it was even found to be nil in few seasons.
- * BOD and CO₂ exhibited highly significant difference between the seasons and lakes.
- * Nitrate nitrogen exhibited highly significant difference between the seasons and lakes.
- * Phosphate phosphorous exhibited highly significant difference between the seasons and lakes.
- * Lead concentration exhibited highly significant difference between the seasons and lakes.
- * Mercury exhibited highly significant difference between the seasons and lakes and was found to be high in concentration.
- * *E.Coli* and *Total plate counts* exhibited highly significant difference between the seasons and lakes.



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Title: Utilization of saline, alkaline, and water logged areas for fish culture in Cauvery and Thunga Bhadra command area

- * Appointed JRF and 9 demonstrations under progress in Mandya, Mysuru, Ballari and Vijaypura districts.
- * Stocking of major carps in the demonstration sites has been completed.
- * Required feed has been supplied to the beneficiaries.
- * Periodic sampling is under progress for the growth and survivability of the stocked species under saline, alkaline and waterlogged areas of the demonstration sites.
- * Programme has been implemented as per project norms.

Title: Utilization of seasonal water bodies for Aquaculture Demonstration under watershed areas in Chamarajanagar District under support for Livestock and Extension activities

- * New resources brought to seed rearing and fish production
- * Brought in new resources viz., small water bodies-farm ponds, water storage structures, rain water harvesting structures of Water sheds to the folds of fish farming.
- * Enhanced resource use efficiency and productivity enhancement in seasonal tanks and other small water bodies.
- * Empowered farmers on activities of fisheries and aquaculture
- * Identified that Amur common carp and Catla species are the better performing species in all the demonstration sites.
- * Many farmers (around 20) who have got farm ponds were inspired from the activities and have shown interest to grow fishes in the upcoming rainy season.
- * Jagadeesh, a farmer of Bettadapura village has realized the benefit of using the nutrient rich farm pond water after rearing fishes. His turmeric yield was 120 quintals in the last year which has increased to 180 quintals during the year. Of course few other factors also govern the increase in yield, like good rainfall, advanced package of practices, etc..
- * Harvest is still in progress.

Capacity Building under the project:

- * Awareness/training programme - 5 Nos.
- * Field days – 5 Nos.

Handouts prepared for awareness/training programme: 5 Nos.

- * Press coverage: 2 Nos.
- * Video documentation has submitted to the watershed department.

FISHERIES RESEARCH AND INFORMATION CENTER (MARINE), ANKOLA

Title: All India Network Project on Mariculture

- * **Broodstock development and hatchery technology of sand whiting (*Sillago sihama*):** The broodstock development of Sillago sihama is in progress in three different environments like pond system, hatchery system and cage system



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- * **Brood stock development and hatchery technology of milk fish (*Chanos chanos*): Collection and Conditioning:** The broodstock development of milk fish is in progress in 1600 sqm earthen pond. The brood fish have grown to over 3.00 kg at the end of 3rd year of rearing. The fish samples of size 3.6 kg (71.0 cm) and 2.65 kg (65.0 cm) examined did not show much variation with respect to gonadal development compared to previous year. However, the gonads were immature, slightly thicker and threadlike.
- * **Fish seed resource survey and establishment of fish seed bank along Uttara Kannada, Udupi and Dakshina Kannada Districts:** A total of 11 fish seed resources survey were conducted during the period under report to assess the prioritized fish species along the coast of Udupi and a few places in Daksina Kannada District during the pre and post-monsoon periods along Uppunda, Nundur, Shirur, Mulki, Udyavar, Hangara Katte, Malpe, Pavanje, Gurupur and Nethravathi estuarine stretches.
- * **Participatory cage farming of prioritized fish species:** One skill development training programme of 3 days duration on sea cage fish farming was conducted at FRIC (Marine), Ankola from 26.03.2018 to 28.03.2018 during the period under report. 40 fishermen were benefitted from the programme.

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, subclinical mastitis, supplementary feeding during late gestation etc.
- * At four villages four fodder nurseries are established.
- * 15 on farm demonstrations on fodder enrichment are conducted. 25 farmers adopted urea ammoniation of straw. 50 farmers have adopted direct urea feeding with straw.
- * 33% animals found to be positive for subclinical mastitis.
- * Lift designed for downer cows has been successful with seven animals out of fifteen tried.3.



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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
DIRECTORATE OF RESEARCH, KVAFSU, BIDAR				
1	KVAFSU, Bidar and ALLTECH, USA, Kentucky	28.02.2018	MOU on joint research alliance in the ruminant sector for the project “feed and fodder evaluation and development of cost effective strategies to increase ruminant’s production and reduce environment impact. The project funding is USD 15,800 (INR 10, 20,000) per annum for five years from 28-02-2018 to 27-02-2023. ALLTECH will invert upto USD 50,000 per annum for upgrading facilities research work and support to graduates. This is operated at Dept. of LPM, Veterinary College, Bengaluru	-

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

#	Institutions involved in MOU	Date of MOU	Details Regarding MOU	Remarks
DIRECTORATE OF RESEARCH, KVAFSU, BIDAR				
1	KVAFSU, Bidar and Department of Biotechnology (DBT) Ministry of Science & Tech, GOI, New Delhi	10.04.2017	MOU related to the project on “Development of therapeutic phage consortia to manage <i>Aeromonas hydrophilia</i> infections” with a funding of Rs.21.00 Lakhs for three years. This is operated at College of Fisheries, Mangaluru	-
2	KVAFSU, Bidar and Coconut Development Board, Kochi	26.10.2017	MOU in respect of project on “Coconut shell oil based ecofriendly therapeutic products” with a funding of Rs. 23.196 lakhs for 24 months. This is operated at Veterinary College, Hassan	-



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VETERINARY COLLEGE, BENGALURU

<p>Altech- Nutrition Research Alliance KVAFSU (The MOU has been renewed. February, 2018 to February, 2023)</p>	<p>February, 2018</p>	<ul style="list-style-type: none"> • Establishment of protein and fibre fraction in feed of local, nutritional and regional importance (up to 6 months - ALTECH). • Microbial biomass synthesis as influenced by feed formulation with combination of ALTECH feed additives (6-18 months - Altech). • Microbial biomass synthesis as influenced by fermentation modulators. Natural plant constituents and feed ingredients (18-30 months-Altech/LPM). • Evaluation of nitrogen substitutes for soybean meal (0-6 months-Altech/LPM). • Fodder and feed preservation by ensiling (LPM). • Diet formulation and feed trails (LPM/AN). • Rumen kinetics and fermentation characteristics studies through in vitro models (batch fermentation and syringe method) (LPM/Altech). 	<p>This project would generate information on characteristics of local feedstuffs with reference to rumen microbial protein synthesis and green house gas production. Based on this information, appropriate feed processing and feeding strategies can be developed to increase the efficiency of milk production, meat production and reduce greenhouse gas emission from ruminant livestock</p>
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5. Technology Developed:

VETERINARY COLLEGE, BENGALURU

- * Method of Processing of Decellularized Extra Cellular Matrix (DECM) for Bio-Medical Applications (Application No.: 201641029234) - M. Dhoolappa, R.V. Prasad and K.V. Jamuna

VETERINARY COLLEGE, SHIVAMOGGA

1. Transfer of BioInsole technology to M/s BioDPol Scientific Pvt Ltd. Bengaluru, for commercialization was done by **Dr Dhoolappa Melinamani** vide sanction order from the Registrar: No: R/KVAFSU/TPC/e-proc-30/2017-18/923A dated: 13-11-2017 MoU dated 24-11-2017.



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2. Rapid tests for qualitative and semi-quantitative detection of adulterants in milk'

Name of the Scientist: **Dr. Nagappa Karabasanavar (PI)**

Patent App. Number 201641012071 (Ref. No. R20184006193) has been submitted for examination on 27.02.2018.

FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL

- * Software has been developed to document various fisheries activities in Karnataka State in marine, brackish water and inland sectors.

6) (a) Awards/Recognitions

#	Name of the Scientist	Award	Year	Agency
VETERINARY COLLEGE, BENGALURU				
1	Mutturaj Yadav, Kiran, M. Jagadeeswary, V. and Satyanarayan, K.	Best paper award	2017	National Conference on Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihood and Resilience to Climate Change by SVFD, PRDIS & PJTSAU, Hyderabad, 22-24 th April, 2017.
2	Mutturaj Yadav, Jagadeeswary, V. and Satyanarayan, K.	Best paper award	2018	7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shivamogga, 29-31 st January 2018.
3	Kiran, M. Satyanarayan, K. and Jagadeeswary, V.	Best paper award	2018	7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shivamogga, 29-31 st January 2018.
4	Chandrashekhar, G.K., Jagadeeswary, V. and Satyanarayan, K.	Best paper award	2018	7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shivamogga, 29-31 st January, 2018.
5	Ajith, K.S., Madhura, Y., Arpitha, R., Chandrapal Singh, K., Krishnamoorthy, U., Prabhu, T.M., Narasimhamurthy, H.N. and Gloridoss, R.G.	Best Poster Presentation Award (Second place)	2018	ANSICON - 2018



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6	Nadeem Fairoze and Sudarshan, S. (Group Award)	Best Paper award	2017	Indian Society for Sheep and Goat Production and Utilization
7	Nadeem Fairoze, Wilfred Ruban, S. and Sudarshan, S. (Group Award)	Best Oral Presentation	2017	Association of Meat Scientist and Technologist
8	Nadeem Fairoze, Wilfred Ruban, S. and Sudarshan, S. (Group Award)	Best Oral Presentation	2017	Association of Meat Scientist and Technologist
9	Wilfred Ruban, S. (Group award)	Best Oral Presentation	2017	Association of Meat Scientist and Technologist
10	S. Wilfred Ruban (Group award)	Best Oral Presentation	2017	Indian Veterinary Association, Kerala
11	Shrikrishna Islloor	Fellow of ISVIB-2017	2017	Indian Society for Veterinary Immunology and Biotechnology (ISVIB) during Annual Convention of ISVIB - VIBCON 2017
12	Shrikrishna Islloor	Research Grant Incentive Award / Certificate of merit as PI	2018	KVAFSU, Bidar
13	D. Rathnamma	Research Grant Incentive Award /Certificate of merit as Co-PI	2018	Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar
14	D. Rathnamma	Certificate of Appreciation as member of Scientific Advisory Board	2018	International Journal of Livestock Research
15	Manjunatha, K.P. (Group award)	Indian College of Veterinary Pathologists- ICVP Consolation Award 2017	2017	Asian Veterinary Pathology Congress-2017
16	Jayanaik	Certificate of Appreciation at Dr. B.R. Ambedkar International Conference as a Delegate	2017	-





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17	H.A.Upendra	Fellow of Indian Society for Advancement of Canine Practice	2018	ISCAP
18	H.A.Upendra	Second best paper among research papers	2017	Indian Dairy Association, New Delhi
VETERINARY COLLEGE, BIDAR				
1	Ravindra, B.D.	Best presentation award	2018	WASET Bangkok, Thailand
2	Channappagouda, B., Anant Rao Desai, Srikanth Kulkarni, Venkanagouda, D. and Vinay Tikare, P.	Best Oral Presentation	2017	SAPI, Bidar
3	Channappagouda Biradar	Young Scientist Award	2018	IAAVR, Tirupati
4	Prakashkumar Rathod	Jawaharlal Nehru Award for Doctoral Thesis Research in Agricultural and Allied Sciences- 2016	2017	ICAR, New Delhi
5	Prakashkumar Rathod, Veeranna, K.C., Channappagouda, B. and Anant Rao Desai	Best Oral Presentation	2018	IVEF –Shivamogga
6	Shrikant Kulkarni	Dr. D. N. Mullick Award	2017	SAPI, Bidar
7	Arun Kharate	Best Presentation Award	2018	ICVSMP Bangkok
8	Prashantkumar Waghe	Best Presentation Award	2018	20 th ICVPT Bangkok
9	Dilipkumar, D., Shivaprakash, B.V., Manjunath Patil, Bhagvantappa, Jahangir, D., Usturge, S.M. and Venkatgiri	Gold medal award for best paper presentation in orthopaedic session	2017-18	ISVS, Tirupati.
10	Venkatgiri, Rangnath L., Nagraj, B.N., Sagar, P., Usturge, S. M., Dilipkumar, D., Shivaprakash, B.V., Bhagvantappa, B. and Jahangirbasha, D.	Best paper presentation	2018	ICVA Kaulalampur, Malaysia.



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11	Dilipkumar, D., Venkatgiri, Usturge, S.M., Shivaprakash, B.V., Sagar, P., Bhagvantappa, B., Jahangirbasha, D. and Arun, T.	Best paper presentation	2018	ICVA Kaulalampur, Malaysia.
12	Jahangirbasha, D., Dilipkumar, D., Bhagvantappa, B., Shivaprakash, B.V., and Usturge, S.M.	Appreciation award for presentation in avian session	2017	ISVS, Tirupati

VETERINARY COLLEGE, SHIVAMOGGA

1	Dhoolappa Melinamani	First runner-up award @ JUGAAD-A-THON-2017, an open competition in a Global Final Demo Day	17 th June, 2017	Consortia for Affordable Medical Technologies (CAMTech-X) a unit of MASSACHSETS GENERAL HOSPITAL (MGH) hackathons held at New Delhi
2	Dhoolappa Melinamani	Travel Fellowship for National Symposium on Nano Science and Technology (NSNST-2017)	02.07.2017 to 04.07.2017	Centre for Nano Science and Engineering, Indian Institute of Science, Bengaluru
3	Dhoolappa Melinamani	Travel Award Grant for the Biofabrication-2017, International Conference, Beijing	15-18 Oct., 2017	International Society for Bio Fabrication (ISBF)
4	Dhoolappa Melinamani	Indian National Science Academy Visiting Fellowship-2017	Oct, 2017	Indian National Science Academy, New Delhi
5	Dhoolappa Melinamani and Lakshmisree, K.T.	Tata Social Enterprise Challenge-2018 nominated as top 20 team 'BioPatch'	4-6 th Jan, 2018	Innovation Park, Indian Institute of Management, Kolkata
5	Ananda, K.J.	Best Scientist Award	2017	5 th Faculty Branding Awards-2017 Held at Kolkata





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6	Ananda, K.J.	Certificate of Appreciation for Oral presentation	2017	During 26 th International Conference of the World Association for the Advancement of Veterinary Parasitology, at Kuala Lumpur, Malaysia
7	Ananda, K.J.	Certificate of Appreciation for poster presentation	2017	-
8	Ananda, K.J.	Best Paper Presentation Award	2018	During 27 th NCVP & National Symposium under the aegis of Indian Association for the Advancement of Veterinary Parasitology Organized by Dept. of Vety. Parasitology, College of Veterinary & Animal Sciences, Udaipur, Rajasthan
9	Pradeep, B.S.	Best oral Presentation Award	2017	During XV Annual Conference of IAVPHS and National symposium at Tirupati

VETERINARY COLLEGE, HASSAN

1	Girish, B.C.	Best Oral Presentation Award	2-3 rd November 2017	University of Malaysia Kelantan, National Conference on emerging trends in Agrinanotechnology-2017, Tirupati
2	Girish, B.C.	Best Poster Award	9-11 th November, 2017	ACVP 2017. AVPC, Bengaluru
3	Guru Prasad, R.	Inspiring talk in the International Conference on Agriculture, Veterinary and Life Sciences, Dubai	February 09-10, 2018	IMRF Dubai Academic Chapter, Burdubai - Dubai - United Arab Emirates
4	Guru Prasad, R.	Best Paper Award	February 09-10, 2018	IMRF Dubai Academic Chapter, Burdubai - Dubai - United Arab Emirates
5	Guru Prasad, R.	IMRF Young Scientist Award	February 09-10, 2018	IMRF Dubai Academic Chapter, Burdubai - Dubai - United Arab Emirates
6	H.S. Madhusudhan	Best Oral Presentation Award	2018	ZARS, Solapur
7	H.S. Madhusudhan	Outstanding Scientist Award	2018	ZARS, Solapur



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8	H.S. Madhusudhan	Certificate of Merit	2018	KVAFSU, Bidar
9	H.S. Madhusudhan	Certificate of Appreciation	2018	IJLR, Noida
10	Manjunatha, L.	Best Oral Presentation Award	2018	IVEF Conference, Shivamogga
11	Manjunatha, L.	Certificate of Appreciation	2018	IJLR, Noida

COLLEGE OF FISHERIES, MANGALURU

1	E.G. Jayaraj	2 nd best poster paper presentation award	2018	Instituted by Reva University, Bengaluru
2	Puneeth, T.G.	Best Poster award	2017	Nitte University, Deralakatte, Mangaluru

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

1	K. Sripad	II nd Best Research Article	-	Indian Journal of Dairy Science
2	Ranganath	Certificate of Award	-	Govt. of Karnataka for developing Cell culture based Pentavalent Bluetongue Inactivated vaccine
3	Sobha Rani and team	Second prize for oral prentation	2017	XV Biennial Conference and National Symposium" at Rajendranagar, Hyderabad
4	Sobha Rani	IAAVR Merit Award	2018	Vety. Biologicals at 18 th Indian Veterinary Congress, XXV Annual Conference of IAAVR
5	S.M. Byregowda	Appreciation certificate	-	Production of Commercial batches of Pentavalent Blue tongue vaccine for sheep
6	Sumathi, B.R.	Second best oral presentation	2017	XV Biennial Conference and National Symposium of IAWV held at College of Veterinary Science, Hyderabad

LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED

1	Vivek, M. Patil	Appreciation Award for contribution towards Cow Care	2017	Virat Hindustan Sangam at Mumbai
2	Vivek, M. Patil	Certificate of Appreciation	2017	International Journal of Livestock Research





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(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>I) Project(s) worth of Rs. 100.00 lakhs and above (Rs. 15000 + Certificate of Merit to PI)</i>						
-	-	-	-	-	-	-
<i>II) Project(s) worth of Rs. 50.00 lakhs and up to Rs. 100.00 lakhs (Rs. 10000 + Certificate of Merit to PI)</i>						
1	Srikrishna Islloor Associate Professor Veterinary College Bengaluru	Molecular epidemiology and genomics of mastitis associated staphylococci	DBT	2017	2 Years	95.63
2	M.N. Venugopal Dean College of Fisheries Mangaluru	Novel molecular approaches for advancing prediction and mitigation of disease outbreak in aquaculture for small scale farmers	DBT	2016	3 Years	71.96
3	Dhanalakshmi, H. Assistant Professor Veterinary College Hassan	Back Yard Rabbit farming for rural women empowerment	DST	2016	3 Years	52.88
4	Y.B. Rajeshwari Veterinary College Bengaluru	Feed and fodder evaluation and development of cost effective feeding strategies to increase ruminant production and reduce environmental impact	Alltech India, Bengaluru	2013	5 Years	60.00
5	Vivek, M. Patil Assistant Professor LRIC (Deoni) Hallikhed	Field performance recording of Deoni Cattle in Bidar District	NPBB	2016	3 Years	60.00
6	G.S. Naveenkumar Assistant Professor Veterinary College Hassan	Field performance recording and herd registration of Hallikar cattle in Karnataka	NAFCC	2017	3 Years	55.00
<i>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)</i>						
1	Hemanth Gowda Veterinary College Hassan	Life Cycle assessment of green house gas emission from different animal production systems of Karnataka	NICRA, Hyderabad (ICAR)	2016	3 Years	27.15



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BIDAR

2	Kiran, M. Assistant Professor Veterinary College Bidar	Effect of essential oils in combination with edible packaging on stability of emulsion based chicken products stored under refrigerated and frozen condition	SERB	2016	3 Years	27.60
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IV) Project(s) worth of Rs. 5.00 lakhs and up to Rs. 25.00 lakhs (Certificate of Merit to PI)

1	S.K. Girish Assistant Professor College of Fisheries Mangaluru	Development of therapeutic phage consortia to manage aeromonas hydroplila infection in aquaculture systems	DBT	2017	3 Years	21.00
2	Kumar Naik, A.S. College of Fisheries Mangaluru	Inventorizing of mangrove associated flora and fauna: need for co-management for conservation and sustainable utilization based on satellite imagery and GIS along Dakshina Kannada and udupi districts of Karnataka	DST (SERB)	2016	2 Years	11.00
3	Shivanand Murthy Professor & Head College of Fisheries Mangaluru	Studies on evaluation of polyherbal compounds in shrimps	Natural Remedies Blore	2016	3 Years	8.00
4	Srikrishna Isloor Associate Professor Veterinary College Bengaluru	KVAFSU / CVA / Crucell Rabies Diagnostic Laboratory	Revolving Fund	2015	-	5.44

7) Important decisions taken during 12th Research Council Meeting held on 07.06.2017 at KVAFSU, Bidar

1. Project funded by Private Industries / Partiews for its revalidation / trial through the Scientists / Teachers from the University needs to be screened thoroughly at the University level by experts. The outcome of such project shall be informed to Private Industries on approval in Annual Technical Meet or Research Council Meet.
2. It is appealed to scientists to take up research projects on large animals especially concerned with value addition aspects.



RURAL ORIENTED & FARMER FRIENDLY
ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಮತ್ತು ಕಾರ್ಮಿಕ ವಿಭಾಗ
KARNATAKA GOVT. OF INDIA & KARMAKAR

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 COLLEGE, BENGALURU (VCH)				
1	9-11 November, 2017	KVC, Hebbal, Bengaluru	Emerging Horizons in Diagnosis of Animal and Poultry Diseases-Towards Sustainable Production in Asian Countries	Dept. of Vety. Pathology, IAVP, ASVP and ICVP

b) Workshops:

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	16-19 January, 2018	Veterinary College, Bengaluru	Rabies Diagnosis and Quality Management Proficiency Tests	Rabies Diagnosis Laboratory, Dept. of Vety. Microbiology and Dept. of Vety. Pathology

c) Seminars: – Nil-

d) Symposia: – Nil-

e) Trainings:

#	Date	Place	Title	Organized by
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU				
1	02.09.2017 to 08.09.2017	Chennai	Avian influenza - Monitoring, surveillance and bio-security	All Scientist of SRDDL in coordination with TANUVAS, Chennai



RURAL ORIENTED & FARMER FRIENDLY
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ii) National Level

a) Conference:

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	29-31 January, 2018	Veterinary College, Shivamogga	Shaping livestock extension advisory services for doubling the farmers income	IVEF and KVAFSU
2	2-3 June, 2017	Veterinary College, Bengaluru	Innovative and Emerging Biochemical and Biotechnological tools to augment animal health and production	Department of Veterinary Biochemistry
VETERINARY COLLEGE, BIDAR (VCB)				
1	21 st to 22 nd December, 2017	Veterinary College, Bidar	Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production	Society of Animal Physiologists of India and Dept. of VPB
VETERINARY COLLEGE, SHIVAMOGGA (VCS)				
1	29-31 st January, 2018	Veterinary College, Shivamogga	Shaping Livestock Extension Advisory Services (LEAS) for Doubling Farmers' Income	Dept. of VAHandE

b) Workshops

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	15.12.2017	Veterinary College, Bengaluru	The Biological Diversity Act, 2002 and its Access Benefit Sharing (ABS) Provisions	Department of Veterinary Physiology, Veterinary College with Karnataka Biodiversity Board, UNEP-GEF-MoEF- ABS Project
VETERINARY COLLEGE, BIDAR (VCB)				
1	14.07.2017	LRIC (Deoni), Bidar	KWDP-II; Sujala-III project activities in Bidar district	KWDP-II; Sujala-III Project Team
VETERINARY COLLEGE, HASSAN (HVC)				
1	15.06.2017	Veterinary College, Hassan	An update on clinical toxicology of Veterinary importance	Dept. of Veterinary Pharmacology and Toxicology, HVC
2	01.08.2017	Veterinary College, Hassan	First aid treatment and health management in dairy animals	Dept. of Veterinary Pharmacology and Toxicology, HVC
3	29.07.2017	KVK, Chamarajanagara	Livestock related extension activities	Sujala-III Project Chamarajanagar
4	31.08.2017	Sagade Village, Chamarajanagar	Sheep breeding and management	Sujala-III Project Chamarajanagar



RURAL ORIENTED & FARMER FRIENDLY
SUKHADHARA SOCIETY FOR RURAL DEVELOPMENT

5	16.09.2017	Mukkadahalli, Chamarajanagar	Livestock support and extension activities	Sujala-III Project Chamarajanagar
6	29.11.2017	Shivapura, Chamarajanagar	Silage making by using Silage Bags	Sujala-III Project, Chamarajanagar
7	28.12.2017	Harave, Chamarajanagar	Selection of milch animals, housing and hygiene of dairy cattle shed	Sujala-III Project Chamarajanagar
8	29.12.2017	Bettadapura Chamarajanagar	Silage making by using silo bags-Demonstration	Sujala-III Project Chamarajanagar
9	26.02.2018	Veterinary College, Hassan	Livestock and Climate Change	ICAR-NICRA project, Veterinary College, Hassan
10	11.01.2018	Harave, Chamarajanagar	Animal Nutrition, viz, fodder cultivation, balanced feed preparation and dry fodder enrichment using urea ammoniation method	Sujala-III Project Chamarajanagar

VETERINARY COLLEGE, GADAG (VCG)

1	20.02.2018	Veterinary College, Gadag	Role of Veterinarian in Animal Welfare and Collection and dispatch of materials in toxicological cases	Dept of VCC, Veterinary College, Gadag in Association with Dept of AHandVS, Gadag
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COLLEGE OF FISHERIES, MANGALURU (FCM)

1	10.07.2017	College of Fisheries, Mangaluru	One day workshop on Aquaculture Technologies to commemorate National Fish Farmers Day	Dept. of Aquaculture and KVK, Mangaluru
2	05.06.2017	College of Fisheries, Mangaluru	World Environmental Day - 2017 and World Ocean Day- 2017	Department of Aquatic Environment and Management
3	03.12.2017	College of Fisheries, Mangaluru	Agriculture Education day	Department of Aquatic Environment and Management
4	01.02.2018	College of Fisheries, Mangaluru	Workshop on Road safety and awareness	Department of Aquatic Environment and Management
5	02.02.2018	College of Fisheries, Mangaluru	One day workshop on World wetlands day - 2018	Department of Aquatic Environment and Management

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

1	30.06.2017	-	Brucellosis: Diagnosis and Control	All Scientist of SRDDL
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INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)

1	01.02.2018	IWVR, Kodagu	Crop damage by Wild Animals and its Control measures	A. Muralidhar and Divya, V.
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BENGALURU

c) Seminars:

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	04.12.2017	Veterinary College, Hebbal, Bengaluru	South Zone Veterinary Physiology Quiz and Seminar	Dept. of Biochemistry
2	2-3 June, 2017	Vety. College, Hebbal, Bengaluru	Innovative and emerging biochemical and biotechnological tools to augment animal health and production	Dept. of Biochemistry

d) Symposia:

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, SHIVAMOGGA (VCS)				
1	06.03.2018 to 09.03.2018	Veterinary College, Shivamogga	Profitable dairy farming	EEC, KVAFSU
2	09.03.2018 to 11.03.2018	Veterinary College, Shivamogga	Sheep and goat farming	EEC, KVAFSU

e) Trainings:

#	Date	Place	Title	Organized by
VETERINARY COLLEGE, BENGALURU (VCH)				
1	16-18 August, 2017	VCH	Animal Husbandry Interventions in Watershed Development	KVAFSU and Watershed Department
2	11.01.2018	VCH	Sensitisation workshop for Mock Evaluators of OIE	OIE and KVAFSU
3	29.06.2017	VCH	Farmers Training programme on ‘Health and Management of Sheep and Goats’	Department of Veterinary Microbiology and Department of Veterinary Medicine
4	14.11.2017 to 4.12.2017	VCH	XXI National Training Programme under Centre of Advanced Faculty Training (ICAR) has been conducted on “An update on vectors and vector-borne diseases”	Department of Veterinary Parasitology, Bengaluru
5	21-23 August, 2017	KVC, Hebbal, Bengaluru	Refresher course on Parasitic Diseases	Department of Veterinary Parasitology, Bengaluru
6	3-4 November, 2017	HVC	Scientific Rabbit rearing	Principal Investigator and Co-Principal Investigator's of the Department of Science and Technology project





RURAL ORIENTED & FARMER FRIENDLY
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7	6-8 December, 2017	KVC, Hebbal, Bengaluru	Refresher course on Parasitic Diseases	Department of Veterinary Parasitology, Bengaluru and KVC
8	12-13 December, 2017	KVC, Hebbal, Bengaluru	Refresher course on Parasitic Diseases	Department of Veterinary Parasitology, Bengaluru and KVC
9	24-25 January, 2018	HVC	Modern Rabbit rearing	PI and Co-PI's of the DST project
10	June, 2017	VCH	Rabies diagnosis	WHO, OIE and Vety. College, Bengaluru
11	October, 2017	VCH	Workshop on neuro toxicity studies	STPI and Dept. of Veterinary Pathology
12	27-29 December, 2017	KVC, Hebbal, Bengaluru	Therapeutic Pharmacology and Veterinary Toxicology	Department of Pharmacology and Toxicology and Karnataka Veterinary Council
13	12.05.2017	VCH	<i>Koli saakanikaya tarabetti karyakrama</i>	Dept. of Poultry Science colloboration with All India Poultry Development Service, Bengaluru and VHL
14	06.07.2017	VCH	Zoonotic diseases of Public Health importance and their Surveillance and Control	Veterinary College, Bengaluru
15	20.06.2017	VCH	<i>Adhunika mattu hittala koli saakanikaya tarabetti karyakrama</i>	Dept. of Poultry Science under SCSP/TSP Scheme.
16	19-21 December, 2017	KVC, Hebbal, Bengaluru	Managental practices for safe and sustainable poultry production and disease control	Dept. of Poultry Science in colloboration with Karnataka Veterinary Council
17	24.04.2017	VCH	Zoonotic diseases and their prevention and control in risk groups	Dept. of VPHandE, Veterinary College, Bengaluru and sponsored by Directorate of Extension, KVAFSU, Bidar
18	06.07.2017	VCH	World Zoonoses Day – 2017	Dept. of Veterinary Public Health and Epidemiology, Veterinary College, Bengaluru





RURAL ORIENTED & FARMER FRIENDLY
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19	28.09.2017	VCH	World Rabies Day – 2017	Dept. of Veterinary Public Health and Epidemiology and Dept. of Veterinary Microbiology, Veterinary College, Bengaluru
20	01.02.2018	IWVR, Kodagu	Crop damage by Wild Animals and its Control measures to the farmers of Kodagu district	IWVR Doddaluvara, Somwarpet, Kodagu
21	22-23 February, 2018	IWVR, Kodagu	Management and Diseases of Wild Animals to the officers of Dept. of AHAndVS of Different districts of Karnataka	IWVR Doddaluvara, Somwarpet, Kodagu
22	1-2 March, 2018	IWVR, Kodagu	Restraint and Disease diagnosis in Wild Animals to the officers of Dept. of AHAndVS of Different districts of Karnataka	IWVR Doddaluvara, Somwarpet, Kodagu

VETERINARY COLLEGE, BIDAR (VCB)

1	28.08.2017 to 30.08.2017	VCB	Scientific sheep and goat production	SCSP/TSP Grants
2	07.02.2018 to 09.02.2018	VCB	Innovative approaches for sustainable livelihood through animal husbandry	MANAGE, Hyderabad and Veterinary College, Bidar
3	24.07.2017 to 26.07.2017	VCB	Management of parturition and postpartum complications in ruminants	Dept. of VGO/SCSP-TSP Grants
4	19.03.2018 to 21.03.2018	VCB	Administration and accounts management training	Dept of VGO/SCSP-TSP Grant
5	22.03.2018 to 24.03.2018	VCB	Stress management and capacity building	Dept of VGO/SCSP-TSP Grant
6	26.03.2018 to 28.03.2018	VCB	Scientific and profitable goat farming	Dept of VGO/SCSP-TSP Grant
7	27.07.2018 to 29.07.2017	VCB	Recent update on diagnosis and treatment of common diseases in ruminants	SAMETI-North, Dharawad
8	20.02.2018 to 22.02.2018	VCB	Innovative technologies in livestock production	Dept. of Veterinary Medicine
9	23.02.2018 to 28.02.2018	VCB	Animal health practices	Directorate of Extension KVAFSU- Bidar and Veterinary College, Bidar
10	01.03. 2018	VCB	ICAR / JRF / SRF entrance examination coaching classes	Veterinary College, Bidar



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VETERINARY COLLEGE, SHIVAMOGGA (VCS)

1	23.08.2018	Sagara	<i>Gopala Goshthi</i>	178 farmers participated in the said programme.
2	11.09.2017 to 16.09.2017	VCS	Integrated Poultry Farming	Livestock Production Management
3	20.02.2018 to 24.02.2018	VCS	Training of Master Trainers (TOT) for Faculty.	ASCI and VCS
4	22.06.2017 to 23.06.2017	VCS	Livestock feed processing and quality assurances for sustainable production	Dept. of LFC, Veterinary College, Shivamogga
5	30.10.2017 to 31.10.2017	VCS	Sheep and goat Farming	Dept. of LFC, Veterinary College, Shivamogga
6	31.07.2017 and 01.08.2017	VCS	Scientific dairying	Dept. of LFC, Veterinary College, Shivamogga
7	17.01.2018 to 18.01.2018	VCS	Scientific poultry production	Dept. of LFC, Veterinary College, Shivamogga
8	26.03.2018 to 27.03.2018	VCS	Integrated Livestock farming system	Dept. of LFC, Veterinary College, Shivamogga

VETERINARY COLLEGE, HASSAN (HVC)

1	03.10.2017	Handrangi, Arkalgud, Hassan	Farmers breed awareness programme on Hallikar	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
2	14.06.2017	HVC	Training program on FPR in Hallikar to field supervisors	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
3	19.06.2017 to 25.06.2017	HVC	Improved poultry production	Dept. of ILFC, Veterinary College, Hassan
4	29.06.2017	HVC	Training program on INAPH to Field Supervisor	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
5	17.07.2017	HVC	The role and importance of indigenous cattle in integrated farming	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
6	24.07.2017	Hagalavadi, Gubbi, Tumkur	Farmers breed awareness programme and cattle show of Hallikar	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
7	9.10.2017	Hagalavadi, Gubbi, Tumkur	Farmers breed awareness programme on Hallikar	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan



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8	03.11.2017 to 04.11.2017	HVC	Training cum Demonstration on Modern Rabbit Farming	DST-Rabbit Project (Dept of Physiology and Biochemistry)
9	13.11.2017	Kachuvanahalli, Kanakapura, Ramnagar	Farmers breed awareness programme on Hallikar	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
10	30.11.2017	Maleyuru, Chamarajanagar	Fodder nursery field day	KWDP-II , Sujala-III Project, Chamarajanagar
11	24.01.2018 to 25.01.2018	HVC	Training cum Demonstration on Modern Rabbit Farming	DST-Rabbit Project (Dept of Physiology and Biochemistry)
12	17.01.2018	Kodahalli, Shivapura, Chamarajanagar	Fodder nursery field day	KWDP-II , Sujala-III Project Chamarajanagar
13	18.01.2018	Harave, Chamarajanagar	Fodder nursery field day	KWDP-II , Sujala-III Project Chamarajanagar
14	02.01.2018	HVC	Field workers training	KWDP-II , Sujala-III Project Veterinary College, Hassan
15	15.02.2018	HVC	Scientific rabbit farming	EEC and Dept of LPM, Veterinary College, Hassan
16	15.02.2018 to 17.02.2018	HVC	Scientific rabbit rearing	Veterinary College, Hassan
17	26.02.2018	HVC	Livestock and Climate Change	Veterinary College, Hassan
18	05.03.2018	KVK Magadi, Ramanagara	Farmers training programme on Hallikar, its importance and conservation	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
19	05.03.2018	HVC	Ration balancing programme	Veterinary College, Hassan
20	06.03.2018	HVC	Ration balancing programme	Veterinary College, Hassan
21	07.03.2018	HVC	Ration balancing programme	Veterinary College, Hassan
22	08.03.2018	HVC	Ration balancing programme	Veterinary College, Hassan
23	09.03.2018	HVC	Ration balancing programme	Veterinary College, Hassan
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)				
1	02.06.2017 to 14.06.2017	SEDP and FPTC	Dairy and food processing For a marketing students	Dairy Science College, Bengaluru



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2	17.08.2017	Gaddadanay -akana halli village	Value added milk products	Dairy Science College, Bengaluru
3	18.08.2017	Harohalli village	Recent technologies and demonstration of value added milk products for farm women	Dairy Science College, Bengaluru
4	12.03.2018 to 24.03.2018	DSCH	Chemical quality aspects of milk and milk products for 23 newly recruited technical staff of Bengaluru Milk union	Dairy Science College, Bengaluru
5	06.09.2017 to 26.09.2017	DSCH	Recent advances in sub-baric evaporation and spray drying technologies for processing value addition to milk food and fruit products	Dairy Science College, Bengaluru
DAIRY SCIENCE COLLEGE, HEBBAL, KALBRUGI (DSCK)				
1	20.06.2017 to 22.06.2017	DSCK	Value added millet based products	Dairy Science College, Kalaburagi
2	17.07.2017 to 19.07.2017	DSCK	Fermented milk products	Dairy Science College, Kalaburagi
3	10.01.2018 to 12.01.2018	DSCK	Value added bakery and dairy products	Dairy Science College, Kalaburagi
4	20.01.2018 to 22.01.2018	DSCK	Value added traditional dairy products	Dairy Science College, Kalaburagi
5	08.03.2018 to 10.03.2018	DSCK	Awareness on microorganisms	Dairy Science College, Kalaburagi
COLLEGE OF FISHERIES, MANGALURU (FCM)				
1	21.12.2017	B.R.P., Shivamogga	Disease diagnosis in Freshwater fishes and Health Management in Aquaculture	Dept. of Aquaculture, College of Fisheries, Mangaluru
2	09.02.2018	KVK, Mudigere	Disease diagnosis in Freshwater fishes and Health Management in Aquaculture	Dept. of Aquaculture, College of Fisheries, Mangaluru
3	26.03.2018 to 28.03.2018	FRIC(M), Ankola	Sea cage fish farming	Dept. of Aquaculture, College of Fisheries, Mangaluru and FRIC (M), Ankola
4	06.11.2017 to 15.11.2018	FCM	Aquatic pollution and abedment	Department of Aquatic Environment and Management



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5	25.10.2017 to 28.10.2017	ICAR- AICRP (PHET), Dept of FPT, FCM	Fish Processing and Value Addition	Department of Fisheries, Government of Karnataka and National Fisheries Development Board, Hyderabad
6	06.03.2018 to 08.03.2018	Karwar, Karnataka and ICAR- AICRP (PHET), FCM	Value added fish products to fisher folk of Uttara Kannada District	Department of Fisheries and Central sector scheme on blue revolution- Integrated development and management of fisheries (Govt. of India)
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU				
1	23.06.2017	SRDDL, Bengaluru	Master vaccinators training on vaccination strategies in disease control programme	IAHandVB and SRDDL
2	05.07.2017 to 07.07.2017	SRDDL, Bengaluru	High performance liquid chromatography (HPLC) in veterinary antibiotic residue analysis	SRDDL
3	29.07.2017	SRDDL, Bengaluru	Control and Containment of Avian Influenza	SRDDL
4	05.01.2018	SRDDL, Bengaluru	BSE training for field Veterinarians	SRDDL
INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)				
1	22.02.2018 to 23.02.2018	IWVR, Kodagu	Management and Diseases of Wild Animals	IWVR-Kudige
2	01.03.2018 to 02.03.2018	IWVR, Kodagu	Restraint and Disease diagnosis in Wild Animals	IWVR-Kudige
LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED				
1	04.04.2017 to 05.04.2017	LRIC (Deoni)	Scientific dairy farming practices	LRIC (Deoni)
2	13.04.2017 to 14.04.2017	LRIC (Deoni)	Scientific dairy farming practices	LRIC (Deoni)
3	03.01.2018	LRIC (Deoni)	Scientific goat farming	LRIC (Deoni)
4	20.01.2018 to 25.01.2018	LRIC (Deoni)	Processing and Value Addition of Milk	LRIC (Deoni)



RURAL ORIENTED & FARMER FRIENDLY

LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA				
1	04.04.2017	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S) Nagamangala
2	01.07.2017	LRIC(S), Nagamangala	Refreshment training programme to the paravets of the DAHandVS on various animal husbandry activities	LRIC(S), Nagamangala
3	07.07.2017	LRIC(S), Nagamangala	Scientific methods of sheep and goat rearing	LRIC(S), Nagamangala
4	12.08.2017	LRIC(S), Nagamangala	Profitable sheep rearing	LRIC(S), Nagamangala
5	16.08.2017	LRIC(S), Nagamangala	Profitable dairying	LRIC(S), Nagamangala
6	21.08.2017	LRIC(S), Nagamangala	Profitable sheep rearing	LRIC(S), Nagamangala
7	08.09.2017	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S), Nagamangala
8	21.09.2017	LRIC(S), Nagamangala	Scientific sheep rearing and profitable dairying	LRIC(S), Nagamangala
9	21.10.2017	LRIC(S), Nagamangala	Profitable sheep and goat rearing	LRIC(S), Nagamangala
10	13.11.2017	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S), Nagamangala
11	09.01.2018	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S), Nagamangala
12	30.01.2018	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S), Nagamangala
13	19.02.2018	LRIC(S), Nagamangala	Scientific Sheep and goat rearing	LRIC(S), Nagamangala
14	20.02.2013	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S), Nagamangala
15	26.02.2018 to 28.02.2018	LRIC(S), Nagamangala	Modern animal husbandry practices	LRIC(S), Nagamangala
16	05.03.2018 to 07.03.2018	LRIC(S), Nagamangala	Profitable dairying	LRIC(S), Nagamangala
17	15.03.2018	VATC, Malavalli	Oestrus synchronization and artificial insemination in sheep	LRIC(S), Nagamangala
18	17.03.2018	Palagrahara, Nagamangala	Awareness of deworming	LRIC(S), Nagamangala



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LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI				
1	19.03.2018 to 21.03.2018	Konehalli	Profitable Animal Husbandry-piggery farming	LRIC (A), Konehalli
2	26.03.2018 to 28.03.2018	Ramenahalli	Silage and haylage preparation for profitable dairying	LRIC (A), Konehalli
3	01.03.2018	Honnnavalli Road	Hydroponic fodder production	LRIC (A), Konehalli
4	05.03.2018	Ramenahalli	Early detection of mastitis using Californian Mastitis Test Kit	LRIC (A), Konehalli
5	13.03.2018	KVK, Honnnavalli	Improved dairy farming	AHP, Konehalli
6	13.03.2018	KVK, Honnnavalli	Improved dairy farming	AHP, Konehalli
7	17.03.2018	KVK, Honnnavalli	Sudharitha pashupalana tantrikathegalu/improved livestock management practices	AHP, Konehalli
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU				
1	19 th -24 th June, 2017	FRIC, Hebbal	Aquaculture-An opportunity for investment and entrepreneurship	FRIC, Hebbal and ICAR, Newdelhi
2	29 th June, 2017	KVK Hardanahalli	fish farming at KVK Hardanahalli Chamarajanagar Dist	FRIC, Hebbal under Sujal-III
3	10 th July, 2017	FRIC, Hebbal	Fish farmers day	FRIC, Hebbal and DOF, GOK
4	10 th July, 2017	KVK Hardanahalli	Awareness programmes on fish farming and fish farmers day celebration	FRIC, Hebbal under Sujal-III
5	29 th July, 2017	FRIC, Hebbal	Sujala activities from 201-18	FRIC, Hebbal under Sujal-III
6	28 th -30 th August, 2017	FRIC, Hebbal	Fisheries interventions in watershed development districts under SUJALA-III	KVAFSU and Wateshed Department, GOK
7	16.09.2017	Mukudahalli	Fish farming	FRIC, Hebbal under Sujal-III
8	26 th -28 th February, 2018	FRIC, Hebbal	Preparation of value added fish and prawn products and women entrepreneurship	FRIC, Hebbal and DOF, GOK
FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA				
1	28-30 th August, 2017	Sujala Nodal Office, Bengaluru	Fisheries interventions in watershed development districts under Sujala-III project	FRIC, Hesaraghatta
2	06.05.2017	Hesaraghatta	Ornamental Fish Culture	FRIC, Hesaraghatta



RURAL ORIENTED & FARMER FRIENDLY



3	19.07.2017	Hesaraghatta	Fish culture in pond water	FRIC, Hesaraghatta
4	10.10.2017	Hesaraghatta	Integrated Fish culture	FRIC, Hesaraghatta
5	24.10.2017	Hesaraghatta	Integrated Fish farming	FRIC, Hesaraghatta
6	21.11.2017	Hesaraghatta	Integrated Fish culture	FRIC, Hesaraghatta
7	19.12.2017	Hesaraghatta	Integrated Fish culture	FRIC, Hesaraghatta
8	09.01.2018	Hesaraghatta	Fish seed rearing and culture	FRIC, Hesaraghatta

FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA

1	15.05.2017	FRIC, Bhutnal	Responsible Fisheries in Reservoirs	FRIC in associated with Central Institute of Fisheries Technology, Mumbai
2	17.05.2017 to 22.05.2017	FRIC, Bhutnal	Fish Farming in Ponds	ICAR, New Dehli and FRIC, Bhutnal, Vijayapur
3	14.06.2017	FRIC, Bhutnal	Sustainable development for rural farmers through fish culture	Director of Extension, KVAFSU, Bidar
4	10.07.2017	FRIC, Bhutnal	Rearing of Fish in Krishi Hondas	FRIC,Bhutnal,Vijayapura
5	04.09.2017 to 06.09.2017	FRIC, Bhutnal	Development of skills in Agriculture and its allied sectors	NRLM,Vijayapur and FRIC, Bhutnal
6	11.09.2017 to 13.09.2017	FRIC, Bhutnal	Skill development in Agriculture and Agriculture allied	NRLM, Vijayapur and FRIC, Bhutnal
7	14.09.2017 to 16.09.2017	FRIC, Bhutnal	Skill development in Agriculture and Agriculture allied	NRLM, Vijayapur and FRIC, Bhutnal
8	21.11.2017	FRIC, Bhutnal	Scientific fish farming in Krishi Hondas	FRIC, Bhutnal, Vijayapura
9	22.12.2017	FRIC, Bhutnal	Scientific Fish Culture	FRIC, Bhutnal, Vijayapura
10	29.12.2017	FRIC, Bhutnal	Scientific Fish Culture	FRIC, Bhutnal, Vijayapura
11	08.01.2018 to 10.01.2018	FRIC, Bhutnal	Eco Friendly- Sustainable Aquaculture	MPEDA Karawar and FRIC, Vijayapura
12	03.02.2018 to 05.02.2018	Vijayapura	Scientist-farmers interaction programme, Farmer to farmer interaction programme and Skill development training programme in related to fisheries	FRIC, Bhutnal, Vijayapura



RURAL ORIENTED & FARMER FRIENDLY
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13	23.03.2018 to 25.03.2018	FRIC, Bhutnal	Skill development in Agriculture and Agriculture allied	FRIC, Bhutnal and Dept. of Agriculture (GoK) Vijayapura
14	26.03.2018 to 28.03.2018	FRIC, Bhutnal	Skill development in Agriculture and Agriculture allied	FRIC, Bhutnal and Dept. of Agriculture (GoK) Vijayapura

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

1	10.07.2017	FRIC(M), Ankola	Awareness programme on Fresh, brackishwater fish and shrimp farming and ornamental fish culture practices	Dr. Chandrkant Lingadhal FRIC(M), Ankola and Dept. of Fisheries, Ankola
2	26.02.2018 to 28.02.2018	FRIC(M), Ankola	Responsible fisheries, Mussel farming and Management for fishermen	Dr. Chandrakant Lingadhal FRIC(M), Ankola
3	26.03.2018 to 28.03.2018	FRIC(M), Ankola	Sea cage fish farming as part of skill development programme under AINP-Mariculture project	Dr. E.G. Jayaraj and Dr. Chandrakant Lingadhal

KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU

1	12.04.2017	KVK-DK	Production and importanace of vermicompost	KVK-DK
2	24.04.2017	KVK-DK	Swarnadhara Poultry farming	KVK-DK
3	13.05.2017 to 15.05.2017	KVK-DK	Krishi Ranga-Summer Camp for kids	KVK-DK
4	08.06.2017	KVK-DK	Scientific Poultry farming	KVK-DK
5	06.07.2017	KVK-DK	Importance of Paddy and Paddy transplanting for students of St. Agnes College Mangaluru.	KVK-DK
6	10.07.2017	KVK-DK	Agriculture Awareness programme for School students Sri Ravishankar gurujee school Mangaluru	KVK-DK
7	03.08.2017	KVK-DK	Agriculture Awareness programme for students of School of Social work Mangaluru	KVK-DK
8	19.08.2017	FCM	World Honey Bee day	KVK-DK
9	23.08.2017	FCM	Sankalpe Se Siddi Programme	KVK-DK
10	11.09.2017 to 18.09.2017	KVK-DK	Reclamation of Problematic Soil thorugh Aquaculture	KVK-DK
11	31.10.2017	KVK-DK	Coconut white fly-symptoms and management	KVK-DK



RURAL ORIENTED & FARMER FRIENDLY



12	14.11.2017 to 16.11.2017	FCM	Eco-friendly and sustainable shrimp farming and siversification in aquaculture	MPEDA
13	17.11.2017	KVK-DK	Scientific goat farming in coastal region	KVK-DK
14	15.12.2017	KVK-DK	Scientific Piggery and Poultry farming	KVK-DK
15	06.02.2018	KVK-DK	Coconut White Fly	KVK-DK
16	07.02.2018	FCM	Fresh water fish culture and KVK activities for Alva College B.Sc. and M.Sc. (Biotechnology) students	KVK-DK
17	15.06.2017	Kaliya, Belthangady	Improved Cultivation practices in Paddy (FLD)	KVK-DK
18	13.07.2017	Harekala, Mangaluru	Capacity building for the Farmers for formation of Harekala chilly Growers association	KVK-DK
19	02.08.2017	Nadugodu Mangaluru taluk	Paddy New Variety IRGA: An Introductory programme for the Farmers	KVK-DK
20	31.08.2017	Mudushedde, Mangaluru	Effect of Supplementation of mineral mixture in the milk production of dairy animals	KVK-DK
21	10.09.2017	Bantwal	Cashew cultivation	KVK-DK
22	13.09.2017	Belthangady	Pepper cultivation	KVK-DK
23	26.09.20017	B.C.Road	Scientific Dairy, Goatery and Poultry farming	KVK-DK
24	13.10.2017	Panemangaluru, Bantwal	Safe use of pesticides	KVK-DK
25	25.10.2017	Manjeshwar, Mangaluru	Coconut white fly-symptoms and management	KVK-DK
26	18.11.2017	Kolya, Puttur	Cultivation practices for Rabi Paddy	KVK-DK
27	23.11.2017	Kajoor, Belthangady	Improved cultivation practices in Sesamum	KVK-DK
28	24.11.2017	Chennaithodi, Bantwal Taluk	Integrated pest and disease management in Jasmine	KVK-DK
29	12.12.2017	Manjeshwara	Pest and disease of Paddy	KVK-DK and KSHD
30	18.12.2017	Beluvai, Mangaluru	Integrated crop management in Okra	KVK-DK
31	23.12.2017	SCDCC, Mangaluru	Coconut BHC and White fly	KVK-DK
32	10.01.2018	Adyar	Trining on Farmers Field School	KVK-DK



RURAL ORIENTED & FARMER FRIENDLY
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33	25.01.2018	Adyar	Animal Husbandry department Schemes and Banking facilities for Pig farming	KVK-DK
34	20.01.2018	Neermarga	Importanc of IRON, Microminerals and deworming to piglets	KVK-DK
35	09.01.2018	Mooda, Bantwal Taluk	OFT on assessment of pruning time in Jasmine	KVK-DK
36	25.01.2018	Devasyamudur, Bantwal Tq.	FLD on Introduction of high yielding variety of cowpea, Arka mangala	KVK-DK
37	09.02.2018	Perne	Mechnised pady Cultivation	KVK-DK
38	10.02.2018	Mayyarakailu	Power operated paddy weeder	KVK-DK
39	27.01.2018	Arekala Pavur	Preparation of FFS Class	KVK-DK
40	16.02.2018	Arekala Pavur	Provided feed, instruments and medicines required for chicks rearing	KVK-DK
41	18.02.2018	Arekala Pavur	FFS Training –Brooding and care and management of Swarnadhabra chicks	KVK-DK
42	22.02.2018	Belthangady	Economics of poultry farming	KVK-DK
43	17.03.2018	Moodbidri	Compost and vermicompost production and its importance	KVK-DK
44	23.02.2018	Arekala Pavur	FFS Training –Inauguration and class on disease affecting poultry and demonstration of New castle disease vaccination to chicks	KVK-DK

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU

1	05.05.2017	Gangagatta Tipur Taluk	Summer Management of Dairy Animals	AHP-Konehalli and BAIF, Tiptur
2	29.06.2017	BAIF Tiptur	Dairy animals Management and Calf rearing	BAIF and AHP-Konehalli
3	12.03.2018	AHP Konehalli	Modern Dairy Farming	AHP-Konehalli
4	13.03.2018	AHP Konehalli	Modern Dairy Farming	AHP-Konehalli
5	14.03.2018	AHP Konehalli	Modern Dairy Farming	AHP-Konehalli
6	16.03.218	BAIF Tiptur	Nutritional importance of dairy animal and its impact on reproduction and fertility	AHP-Konehalli
7	17.03.2018	BAIF Tipur	Reproduction diseases of dairy animal	AHP-Konehalli
8	26.03.2018	KVK Bidregudi	Clean Milk production	AHP-Konehalli



RURAL ORIENTED & FARMER FRIENDLY
ANIMAL HUSBANDRY POLYTECHNIC
DORNALLI-YADGIR

ANIMAL HUSBANDRY POLYTECHNIC, DORNALLI-YADGIR

1	30.06.2017	District level workshop at NVM Hotel Yadgir	Regarding Sujala-III activities	AHP-Dornalli under Sujala-III
2	25.10.2017	Training Centre, Kalaburagi	Regarding Sujala-III activities	AHP-Dornalli under Sujala-III
3	31.10.2017	Training Centre, Kalaburagi	Regarding Sujala-III activities	AHP-Dornalli under Sujala-III
4	08.12.2017 to 10.12.2017	Attended Krishimela at Raichur	Attended Krishimela at Raichur	AHP-Dornalli under Sujala-III

ABSTRACT OF CONFERENCES / TRAININGS / WORKSHOPS / SEMINARS / SYMPOSIA ORGANIZED DURING 2017-18

#	College / Institute	International Level					National Level					Total
		Conference	Workshops	Seminar	Symposia	Trainings	Conference	Workshops	Seminar	Symposia	Trainings	
1	Veterinary College, Bengaluru	1	1	-	-	-	2	1	2	-	22	29
2	Veterinary College, Bidar	-	-	-	-	-	1	1	-	-	10	12
3	Veterinary College, Shivamogga	-	-	-	-	-	1	-	-	2	8	11
4	Veterinary College, Hassan	-	-	-	-	-	-	10	-	-	23	33
5	Veterinary College, Gadag	-	-	-	-	-	-	1	-	-	-	1
6	Dairy Science College, Bengaluru	-	-	-	-	-	-	-	-	-	5	5
7	Dairy Science College, Kalaburagi	-	-	-	-	-	-	-	-	-	5	5
8	College of Fisheries, Mangaluru	-	-	-	-	-	-	5	-	-	6	11
9	IAHandVB, Bengaluru	-	-	-	-	1	-	1	-	-	4	6
10	IWVR, Doddaluvara-Kodagu	-	-	-	-	-	-	1	-	-	2	3
11	LRIC, Hallikhed-Bidar	-	-	-	-	-	-	-	-	-	4	4
12	LRIC, Nagamangala-Mandy	-	-	-	-	-	-	-	-	-	18	18
13	LRIC, Konehalli-Tumakuru	-	-	-	-	-	-	-	-	-	7	7



RURAL ORIENTED & FARMER FRIENDLY
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DODDALUVARA-KODAGU

14	BRIC, Dornalli-Yadgir	-	-	-	-	-	-	-	-	-	-	0
15	CRIC, Timmapur-Bagalkot	-	-	-	-	-	-	-	-	-	-	0
16	FRIC, Hebbal-Bengaluru	-	-	-	-	-	-	-	-	8	8	
17	FRIC, Hesaraghatta-Bengaluru	-	-	-	-	-	-	-	-	8	8	
18	FRIC, Bhutnal-Vijayapura	-	-	-	-	-	-	-	-	14	14	
19	FRIC, Ankola-Uttar Kannada	-	-	-	-	-	-	-	-	3	3	
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	-	-	-	-	-	-	-	-	44	44	
21	AHP, Konehalli-Tumakuru	-	-	-	-	-	-	-	-	8	8	
22	AHP, Kunnur-Haveri	-	-	-	-	-	-	-	-	-	-	
23	AHP, Koravangala-Hassan	-	-	-	-	-	-	-	-	-	-	
24	AHP, Bargi-Chamarajnagar	-	-	-	-	-	-	-	-	-	-	
25	AHP, Dornalli-Yadgir	-	-	-	-	-	-	-	-	4	4	
Total		1	1			1	4	20	2	2	203	234

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	11	63	11	3	2	1	91
2	Veterinary College, Bidar	21	54	5	-	3	1	84
3	Veterinary College, Shivamogga	2	77	12	10	2	-	103
4	Veterinary College, Hassan	7	91	13	2	-	-	113
5	Veterinary College, Gadag	2	1	2	-	1	-	6
6	Dairy Science College, Bengaluru	2	5	-	-	-	1	8
7	Dairy Science College, Kalaburagi	-	5	-	-	-	-	5
8	College of Fisheries, Mangaluru	4	13	2	1	2	2	24
9	IAHandVB, Bengaluru	2	81	4	6	-	-	93
10	IWVR, Doddaluvara-Kodagu	-	-	-	-	-	-	-
11	LRIC, Hallikhed-Bidar	1	3	1	-	-	-	5



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12	LRIC, Nagamangala-Mandya	-	1	-	-	-	-	1
13	LRIC, Konehalli-Tumakuru	-	5	1	-	-	-	6
14	BRIC, Dornalli-Yadgir							-
15	CRIC, Timmapur-Bagalkot	-	-	-	-	-	-	-
16	FRIC, Hebbal-Bengaluru	-	18	1	-	-	-	19
17	FRIC, Hesaraghatta-Bengaluru	-	16	-	-	-	-	16
18	FRIC, Bhutnal-Vijayapura	-	-	-	-	-	-	-
19	FRIC, Ankola-Uttar Kannada	-	18	1	-	-	-	19
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	-	50	5	9	-	-	64
21	AHP, Konehalli-Tumakuru	-	4	-	-	-	-	4
22	AHP, Kunnur-Haveri	1	2	1	-	-	-	4
23	AHP, Koravangala-Hassan	-	-	-	-	-	-	-
24	AHP, Bargi-Chamarajnagar	-	-	-	-	-	-	-
25	AHP, Dornalli-Yadgir	-	-	-	-	-	-	-
Total		53	507	59	31	10	5	665

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	15	14	8	6	7	7	57
2	Veterinary College, Bidar	43	21	7	-	1	2	74
3	Veterinary College, Shivamogga	15	19	1	2	5	1	43
4	Veterinary College, Hassan	13	9	14	4	2	3	45
5	Veterinary College, Gadag	12	6	1	3	1	1	24
6	Dairy Science College, Bengaluru	3	-	-	-	1	-	4
7	Dairy Science College, Kalaburagi	-	5	-	-	-	1	6
8	College of Fisheries, Mangaluru	10	8	11		7	1	37
9	IAHandVB, Bengaluru	1	8	2	3	3	-	17



RURAL ORIENTED & FARMER FRIENDLY

10	IWVR, Doddaluvara-Kodagu	-	-	1	1	1	-	3
11	LRIC, Hallikhed-Bidar	3	-	-	-	-	-	3
12	LRIC, Nagamangala-Mandya	-	-	-	-	-	-	-
13	LRIC, Konehalli-Tumakuru	-	-	-	-	-	-	-
14	BRIC, Dornalli-Yadgir	-	-	-	-	-	-	-
15	CRIC, Timmapur-Bagalkot	1	-	-	-	-	-	1
16	FRIC, Hebbal-Bengaluru	1	-	1	-	-	1	3
17	FRIC, Hesaraghatta-Bengaluru	-	4	-	-	-	-	4
18	FRIC, Bhutnal-Vijayapura	-	-	-	-	-	-	-
19	FRIC, Ankola-Uttar Kannada	-	-	2	-	-	-	2
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	-	5	11	1	-	-	17
21	AHP, Konehalli-Tumakuru	1	-	-	-	-	1	2
22	AHP, Kunnur-Haveri	1	-	-	-	-	-	1
23	AHP, Koravangala-Hassan	-	-	-	-	-	-	-
24	AHP, Bargi-Chamarajnagar	-	-	-	-	-	-	-
25	AHP, Dornalli-Yadgir	-	-	-	-	-	-	-
Total		119	99	59	20	28	18	343

4. Radio Talk/TV Programmes

a) Radio Talks

#	Date	Scientist	Topic	AIR Station
VETERINARY COLLEGE, BENGALURU				
1	09.05.2017	K. Satyanarayan	Draught Animal management	AIR, Bengaluru
2	29.06.2017	Suma, N.	Feeding of calves and health care	AIR, Bengaluru
3	13.11.2017	Suma, N.	Rearing of rabbits and profitability	AIR, Bengaluru
4	14.03.2018	Suma, N.	Donkeys and their utility to farmers	AIR, Bengaluru
5	24.08.2017	S.B. Prasanna	Care and Management of Pregnant animals	AIR, Bengaluru
6	13.04.2017	Narasimha Murthy	Talk on Reproductive Disorders in cattle	AIR, Bengaluru
7	28.09.2017	G.J. Renukaradhya	Talk on buffalo rearing	AIR, Bengaluru
8	29.10.2017	P.T. Ramesh	Winter diseases of animals and their control	AIR, Bengaluru





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9	21.09.2017	B.M. Veeregowda	Role of vaccines in prevention of diseases	AIR, Bengaluru
10	28.02.2018	D. Rathnamma	Control of PPR and sheep pox diseases in sheep	AIR, Bengaluru
11	05.10.2017	G.S. Mamatha	Menace of External parasites in animals and control	AIR, Bengaluru
12	05.04.2017	Leena, G.	Management of Dead Animals	AIR, Bengaluru
13	13.09.2017	Leena, G.	Prevention and control of Zoonoses	AIR, Bengaluru
14	05.04.2017	K.M. Srinivasa Murthy	Choke in cattle and its prevention	AIR, Bengaluru
15	22.01.2018	K.M. Srinivasa Murthy	Yoke galls in bullocks and treatments	AIR, Bengaluru
16	16.06.2017	H.A. Upendra	Conflict between Man and Wild Animals and its Management	AIR Bengaluru
17	30.06.2017	Ravindranath, B.M.	Colostrum feeding and calf management	AIR Bengaluru

VETERINARY COLLEGE, BIDAR

1	08.06.2017	Anant Rao Desai	Common diseases in sheep and goat during monsoon and their control measures	AIR-Kalaburagi
2	20.02.2018	Arun Kharate	Milk adulteration and its impact	AIR-Kalaburagi
3	20.02.2018	Dilipkumar, D.	Pashusangopaneyelli shashtrachikitseya mahatva	AIR-Kalaburagi

VETERINARY COLLEGE, SHIVAMOGGA

1	25.05.2017	K.C. Veeranna	Stall fed sheep and goat rearing	AIR, Bhadravathi
2	20.10.2017	Gopala, G.T.	Importance of Poultry Manure	AIR, Bhadravathi
3	11.10.2017	Krishnamurthy, T.N.	Rural Backyard poultry farming	AIR, Bhadravathi
4	20.12.2017	B.A. Desai	Value added Milk Products	AIR, Bhadravathi
5	30.10.2017	K. Ganesh Udupa	Control of Internal Parasitism in Calves	AIR, Bhadravathi
6	August-2017	Shambulingappa	Sookshmanu Jeevenirodakagalu Mattu Samudaya Aarogya	AIR, Bhadravathi

VETERINARY COLLEGE, HASSAN

1	17.06.2017	N. Nagaraju	Common surgeries in cattle	AIR, Hassan
2	22.06.2017	H.S. Madhusudhan	Feed and Fodder for Native Cows	AIR, Hassan
3	17.07.2017	G.S. Naveen Kumar	Organic farming and importance of native cows AIR Hassan	AIR, Hassan
4	22.07.2017	Ravikumar, P.	Management of diseases of sheep during monsoons	AIR, Hassan
5	29.07.2017	Ravikumar, P.	Control and management of Rabies in domestic animals	AIR, Hassan
6	14.09.2017	Rajashailesha, N.M.	Management of quality of milk (GunamattadaHaalu)	AIR, Hassan
7	11.09.2017	Manjunatha, L.	Interview on Mechanization in dairy farming	AIR, Hassan



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8	02.10.2017	Manjunatha, L.	Green fodder production	AIR, Hassan
9	20.02.2018	G.S. Naveen Kumar	Rearing of native cow breeds interview in Kannada	AIR, Hassan
10	06.03.2018	H.S. Madhusudhan	Management of cattle during scarcity of fodder	AIR, Hassan

VETERINARY COLLEGE, GADAG (VCG)

1	24.11.2017	Mahantesh, M. Nekar	Organic Fertilizers	AIR, Dharwad
2	09.01.2018	V.B. Shettar	Breeds in profitable dairying (in Kannada)	AIR, Dharwad

DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)

1	12.12.2017	D.B. Puranik	Value added milk products	AIR, Bengaluru
2	02.02.2018	B. Ramachandra	Clean Milk Production	AIR, Bengaluru

COLLEGE OF FISHERIES, MANGALURU (FCM)

1	25.09.2017	Mridula Rajesh	Fishery Management	AIR Mangaluru
2	09.10.2017	Mridula Rajesh	Fishery Management	AIR Mangaluru

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

1	18.05.2017	Ganesh Hegde	Vaccination for disease prevention in farm animals	AIR-Karwar
2	29.01.2018	Amitha Reena Gomes	Vaccination schedule of poultry birds	AIR-Bengaluru
3	29.12.2017	B.R. Sumathi	Management of poultry birds in winter season	AIR-Bengaluru
4	25.09.2017	B.R. Sumathi	Brucellosis and its control	AIR-Bengaluru

FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA

1	12.05.2017	Vijayakumar, S.	Profitable fish farming	AIR,Vijayapura
2	11.09.2017	Vijayakumar, S.	Profitable fish farming in farm ponds	AIR,Vijayapura
3	09.01.2018	Vijayakumar, S.	Opportunities in Fisheries For Youths	AIR,Vijayapura

KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)

1	06.06.2017	Rashmi, S.	Seed treatment and nursery management	AIR-Mangaluru
2	12.06.2017	Harish Shenoy	Improved cultivation practices in paddy	AIR-Mangaluru
3	10.06.2017	Rashmi, L.	Scientific goat farming	AIR-Mangaluru

ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI

1	23.06.2017	Shivakumar, K. Radde	Profitable Dairy Farming	AIR-Dharwad
2	07.09.2017	Shambhulingappa, B.G.	Cultivation of fodder crops	AIR-Dharwad
3	October, 2017	Darshan, C.S.	Control of ectoparasites of livestock	AIR-Dharwad



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b) TV Programmes

#	Date	Scientist	Topic	Station
VETERINARY COLLEGE, BENGALURU				
1	26.02.2018	K. Satyanarayan	Live – In programme on Calf Management	Doordarshan, Bengaluru
2	11.08.2017	Suma, N.	Nutritional management and care of calves	Doordarshan, Bengaluru
3	09.08.2017	Suma, N.	Initial care and management of calves	Doordarshan, Bengaluru
4	11.02.2018	S.B. Prasanna	Care and management of calves	Doordarshan, Bengaluru
5	25.03.2017	P.T. Ramesh	Summer Management of cattle disease	Doordarshan, Bengaluru
6	14.08.2017	Malathi, V.	Hatchery management	Digvijaya Kannada TV Channel Bengaluru
7	14.08.2017	Gopinath, C.R.	Rearing and management of Giriraja, Swarnadhara and Indigenous chicken	Digvijaya Kannada TV channel Bengaluru
8	08.06.2017	B.N. Nagaraja	Panel discussion on Kadu Pranigalalli daya marana sariye?	E TV Kannada live
9	26.10.2018	B.N. Nagaraja	Cancer in dogs – A Case Report	B-TV Kannada
VETERINARY COLLEGE, BIDAR				
1	12.04.2017	Ravindra, B.G.	FMD in cattle	DD Kalaburagi
2	17.05.2017	Ramachandra, B.	Alternative fodder resources	Chandana TV, Bengaluru
3	07.06.2017	Anant Rao Desai	Common diseases in livestock during monsoon and their control measures	DD Kalaburagi
4	16.08.2017	Anant Rao Desai	New technologies in livestock production	DD Kalaburagi
VETERINARY COLLEGE, SHIVAMOGGA				
1	11.04.2017	Ananda, K.J.	Management of Internal Parasitic diseases of domestic animals during summer	DD Chandana
2	12.04.2017	Ananda, K.J.	Management of Vector-borne parasitic diseases of domestic animals during summer	DD Chandana
3	24.07.2017 and 25.07.2017	R. Jayashree	Tree fodder seedling production and propagation	Chandana TV



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VETERINARY COLLEGE, HASSAN

1	14.08.2017	Suresh, B.N.	Spent maize cob as fodder source	Dooradarsha, Bengaluru
2	10.07.2018	H.S. Madhusudhan	Balanced ration for cattle	Dooradarsha, Bengaluru

DIARY SCIENCE COLLEGE, BENGALURU

1	01.06.2017	H.M. Jayaprakasha	Nutritional significance of milk and milk products and their health impact	DD Chandana
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COLLEGE OF FISHERIES, MANGALURU

1	14.07.2017	M.N. Venugopal	Shrimp culture using biofloc technology	DD National (Chandana)
2	31.08.2017	M.N. Venugopal	Management of diseases in shrimp aquaculture	DD National (Chandana)
3	10.02.2018	Kumar Naik, A.S.	Impact of light fishing and Bull trawling on marine fisheries resources live telecast on Daiji world TV Mangaluru	Daiji world TV Mangaluru
4	07.09.2018	S.M. Shivaprakash	Participated in Doordarshan recording of the activities of Polytechnic, Shiggaoon	DD Chandana
5	27.05.2017	S.M. Shivaprakash	Responsible Fisheries, Mansoon Fishing Ban and Cleanliness and Hygiene in Fish Markets	Doordarshan
6	29.05.2017	S.M. Shivaprakash	Shirmp farming using modern Bio-flock Technology	Doordarshan

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

1	-	S.M. Byregowda	PRRS Disease management in Pig	Krishidarshana-Bengaluru
2	07.08.2017	Ranganatha, S.	Bluetongue disease and its control	DD-Bengaluru
3	18.11.2017	Ganesh Hegde	FMD vaccination	-
4	December, 2017	Manjunath,V.	The elephant and human conflict and measures to control the conflicts	Sirsi
5	01.01.2018	Ranganatha, S.	Diseases of Pigs and its Control	DD-Bengaluru
6	05.10.2018	B.R. Sumathi	Mastitis management in cattle	DD Chandana
7	09.10.2017	B.R. Sumathi	Control measures of Brucellosis in Livestock	DD Chandana



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CANINE RESEARCH AND INFORMATION CENTER (MH), TIMMAPUR-BAGALKOT				
1	17.09.2017	Mahesh, S. Dodamani	Breeding and Management Policies	ETV Kannada
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU				
1	05.05.2017	K.N. Prabhudeva	Substrate based aquaculture	DD Chandana
2	19.07.2017	K.N. Prabhudeva	Successful fisheries in Karnataka	ETV Kannada News
3	29.08.2017	K.N. Prabhudeva	Utilization of vegetable and fruit refuse for animal feeding	ETV Kannada News
4	29.08.2017	K.N. Prabhudeva	Integrated fish farming system	DD Chandana
5	01.03.2018	K.N. Prabhudeva	Importance of Value addition in fisheries	DD Chandana
6	16.03.2018	K.N. Prabhudeva	Importance of Value addition in fisheries	DD Chandana
7	19.07.2017	K.B. Rajanna	Rearing of stunted fingerlings	ETV Kannada News
8	29.08.2017	K.B. Rajanna	Growing of stunted fingerlings for better survival and production	DD Chandana
9	19.07.2017	N. Chethan	Water quality management in fish seed rearing	ETV Kannada News
10	29.08.2017	N. Chethan	Water quality management in aquaculture	DD Chandana
FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA, BENGALURU				
1	10.10.2017	Manjappa, N.	Integrated Fish Culture	DD Chandana TV programme
FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA				
1	07.02.2018	Vijaykumar, S.	On Mega Fisheries Exhibition	ETV Annadata
KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)				
1	16.05.2017	Annappaswamy, T.S.	Krishi Ranga Summer Camp for kinds	Samaya TV
ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI				
1	19.09.2017	Shivakumar, K. Radder	Supplementary feeding during late gestation in dairy cattle	DD-Bengaluru
2	02.10.2017	Shambhulingappa, B.G.	Silage making using silobags	DD-Bengaluru
3	11.10.2017	Shambhulingappa, B.G.	Cultivation of fodder crops	DD-Bengaluru
4	17.10.2017	Shambhulingappa, B.G.	Perennial Fodder Crop – Guinea grass	DD-Bengaluru



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5	20.10.2017	Shambhulingappa, B.G.	Legume fodder crops
6	25.10.2017	Shambhulingappa, B.G.	Monocot fodder crops
7	27.10.2017	Shambhulingappa, B.G.	Hybrid Napier as a perennial fodder crop
8	12.02.2018	Darshan, C.S.	Tick control in livestock
9	29.02.2018	Shivakumar, K. Radde	Support to Downer cows by means of mobile lift cum trevis

ABSTRACT OF RADIO TALKS AND TV PROGRAMMES DURING 2017-18

#	College/Institute	Radio Talks	TV Programmes	Total
1	Veterinary College, Bengaluru	17	9	26
2	Veterinary College, Bidar	03	04	07
3	Veterinary College, Shivamogga	06	03	09
4	Veterinary College, Hassan	10	02	12
5	Veterinary College, Gadag	02	-	02
6	Dairy Science College, Bengaluru	02	01	03
7	Dairy Science College, Kalaburagi	-	-	-
8	College of Fisheries, Mangaluru	02	06	08
9	IA Hand VB, Bengaluru	04	07	11
10	IWVR, Doddaluvara-Kodagu	-	-	-
11	LRIC, Hallikhed-Bidar	-	-	-
12	LRIC, Nagamangala-Mandy	-	-	-
13	LRIC, Konehalli-Tumakuru	-	-	-
14	BRIC, Dornalli-Yadgir	-	-	-
15	CRIC, Timmapur-Bagalkot	-	01	01
16	FRIC, Hebbal-Bengaluru	-	10	10
17	FRIC, Hesaraghata-Bengaluru	-	01	01
18	FRIC, Bhutnal-Vijayapura	03	01	04
19	FRIC, Ankola-Uttar Kannada	-	-	-
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	03	01	04
21	AHP, Konehalli-Tumakuru	-	-	-
22	AHP, Kunnur-Haveri	03	09	12
23	AHP, Koravangala-Hassan	-	-	-
24	AHP, Bargi-Chamarajnagar	-	-	-
25	AHP, Dornalli-Yadgir	-	-	-
Total		55	55	110



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5. Animal Health Camps

#	Name of the College/Institute	No. of Animal Health Camps	No. of cases treated/advised
1	Veterinary College, Bengaluru	20	1971
2	Veterinary College, Bidar	06	615
3	Veterinary College, Shivamogga	09	332
4	Veterinary College, Hassan	8	641
5	Veterinary College, Gadag	-	-
6	Dairy Science College, Bengaluru	1	85
7	Dairy Science College, Kalaburagi	1	80
8	College of Fisheries, Mangaluru	-	-
9	IAHandVB, Bengaluru	1	60
10	IWVR, Doddaluvara-Kodagu	1	100
11	LRIC, Hallikhed-Bidar	-	-
12	LRIC, Nagamangala-Mandya	9	11855
13	LRIC, Konehalli-Tumakuru	6	1488
14	BRIC, Dornalli-Yadgir		
15	CRIC, Timmapur-Bagalkot	7	331
16	FRIC, Hebbal-Bengaluru	-	-
17	FRIC, Hesaraghatta-Bengaluru	-	-
18	FRIC, Bhutnal-Vijayapura	-	-
19	FRIC, Ankola-Uttar Kannada	-	-
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	-	-
21	AHP, Konehalli-Tumakuru	1	150
22	AHP, Kunnur-Haveri	-	-
23	AHP, Koravangala-Hassan	-	-
24	AHP, Bargi-Chamarajnagar	-	-
25	AHP, Dornalli-Yadgir	-	-
Total		70	17708



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

#	Name of the College/Institute	No. of Demonstrations	Pashu/Matsya Mela
1	Veterinary College, Bengaluru	65	19
2	Veterinary College, Bidar	40	13
3	Veterinary College, Shivamogga	33	08
4	Veterinary College, Hassan	35	5
5	Veterinary College, Gadag	-	1
6	Dairy Science College, Bengaluru	2	-
7	Dairy Science College, Kalaburagi	2	-
8	College of Fisheries, Mangaluru	9	7
9	IAHandVB, Bengaluru	5	2
10	IWVR, Doddaluvara-Kodagu	2	2
11	LRIC, Hallikhed-Bidar	12	-
12	LRIC, Nagamangala-Mandyā	50	-
13	LRIC, Konehalli-Tumakuru	2	-
14	BRIC, Dornalli-Yadgir	-	-
15	CRIC, Timmapur-Bagalkot	-	6
16	FRIC, Hebbal-Bengaluru	7	3
17	FRIC, Hesaraghatta-Bengaluru	8	4
18	FRIC, Bhutnal-Vijayapura	3	6
19	FRIC, Ankola-Uttar Kannada	1	2
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	8	11
21	AHP, Konehalli-Tumakuru	2	2
22	AHP, Kunnur-Haveri	15	-
23	AHP, Koravangala-Hassan	-	-
24	AHP, Bargi-Chamarajnagar	-	-
25	AHP, Dornalli-Yadgir	20	1
Total		321	92



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7. Animal Health Care Services to Farmers

<i>College / Institute</i>	<i>Service Provided</i>	<i>Total Nos.</i>
Veterinary College, Bengaluru	Visitors have been given advice on project making, farming, demonstrations of urea enrichment of straw, silage making, sheep stall feeding	250
	Small and Large Animals treated	27468
	Small and Large Animals treated	19199
	VCC, Hebbal	
	Small and Large Animals treated	46102
	VCC, Yalahanka	
	Small and Large Animals treated	9392
	Inpatients	159
	Total	102570
Veterinary College, Bidar	Various clinical services to livestock and pet animals	11884
Veterinary College, Shivamogga	Visited Goshala at Koralahalli, Shivamogga rural-25 th November 2017	1
	Field visit to a cross bred Heifer calf rearing farm at Ripponpet, Hosanagar Tk, visit to Malnad Gidda farm 23 rd January 2018	1
	Cattle judging at Animal health camp at Kuskur, Shivamogga Tk -11 th December 2017	1
	Participated as judge for Dairy cattle and Calf show organized 30 th December 2017	1
	Cattle judging at Animal health camp in NSS camp at Sogane village, Shivamogga Tk, 22 nd March 2018	1
	Animals treated at Medicine unit, Teaching Veterinary Clinical Complex (TVCC) of Veterinary College, Shivamogga from 01 April 17 to 31th March 2018	4357
	Surgical treatment/interventions/ operations in OPD/OT for the year 2017-18 (01.04.2017 to 31.03.2018)	2044
	Total	6406
Veterinary College, Hassan	Clinical services (April 17 to March18)	8099
	Deworming of sheep	400
	Field visits for disease diagnosis and overseeing of FMD vaccination programme	4
	Treatment of sick animal	2997
	Health certificates to ostriches	2
	Clinical services (April 17 to March 18)	297
	Major surgeries-248	
	Minor surgeries-49	
	OPD	2053
	Total	13852



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Veterinary College, Gadag	Health care service at College Hospital, Mahaveera goshala	792
Dairy Science College, Bengaluru	-	-
Dairy Science College, Kalaburagi	Sub-clinical mastitis testing demo at Dongaragaon, Ranapur, Khairat chincholi, Hebli (Kalaburagi) under CMP programme	04
College of Fisheries, Mangaluru	-	-
IAD Hand VB, Bengaluru	OPC Toxicity, Ephemeral Fever, Sheep Pox, Malnutrition, Foot and mouth Disease, TB final reading, Bacterial Septicemia and parasitic infestation, Lantana plant poisoning, Vidanga (Embelia ribes) plant poisoning, Anemia, goat pox infection, Anemia due to HCN poisoning, Enterotoxaemia, Enterotoxaemia and Plant Toxicity, Porcine Reproductive and Respiratory Syndrome, BQ, Mycoplasma, Mycoplasmosis, Mycoplasma and Contagious ecthyma (ORF), PPR / Pasteurellosis, Mycoplasma infection, Mycoplasma infection, Anthrax, PPR and orf mixed infection, PPR and contagious ecthyma (ORF) disease mixed infection, Hypersensitivity reaction to FMD vaccine in Cattle, Blue Tongue, IBR and Theileriosis, Hypersensitivity reaction to FMD vaccine in Cattle, STD's sample collection, Feed Samples collection, BT, Mycoplasmosis Orf (Contagious ecthyma) and Foot rot disease, Blue Tongue and Ectoparasitic infection, Avian Influenza, FMD No signs of FMD noticed, Probably could be due to facultative anaerobic bacterial infection, HS, Sheep Pox Infection, Mixed infection of Mycoplasmosis and Pasteurellosis, Sheep pox, Blue tongue, Mycoplasmosis, Brucellosis, Anthrax	51 villages
IWVR, Doddaluvara-Kodagu	-	-
LRIC, Hallikhed-Bidar	-	-
LRIC, Nagamangala-Mandya	Health care during Field Visit	262
LRIC, Konehalli-Tumakuru	Treated ailing animals of LRIC(A)	48
	Deworming of farm livestock	116
	Vaccination of farm livestock against FMD, HS and BQ	180
	Vaccination of sheep for ET and PPR	06
	Total	350



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BRIC, Dornalli-Yadgir	-	-
CRIC, Timmapur-Bagalkot	Consultancy Service to local Mudhol hound dogs	420
FRIC, Hebbal-Bengaluru	-	-
FRIC, Hesaraghatta-Bengaluru	-	-
FRIC, Bhutnal-Vijayapura	-	-
FRIC, Ankola-Uttar Kannada	-	-
Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	Antirabies vacaccation to Dogs and Cats	82
	Free antirabies Vaccination to 56 dogs/cats on the occation of World Zoonoses day celebration organized by IAH and VB	56
	Total	138
AHP, Konehalli-Tumakuru	Pig castrations	75
	Treated Ailing Animals of the Surrounding villages of the Institution	85
	AHD students have assisted in the treatment of ailing animals in different veterinary hospitals under WEx course	800
	No. of Inseminations done by AHD Students in different Hospitals	275
	No. of castrations done by AHD Students in different Hospitals	280
	No. of Animals dewormed by AHD Students in different villages of Tiptur and Arsikere Tq	3500
	FMD Vaccination done by AHD Students in different Villages of Tiptur Taluk	6585
	Total	11600
AHP, Kunnur-Haveri	-	-
AHP, Kora vangala-Hassan	-	-
AHP, Bargi-Chamarajnagar	-	-
AHP, Dornalli-Yadgir	05	32
	Total	148361



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8. Diagnostic Services Provided

#	Institution	Diagnostic Services provided	Total Numbers
1	Veterinary College, Bengaluru	The vetero legal cases, Physical and chemical composition evaluation, Large Animals Surgery, Dystocia, AI and Other services, Small Animals Surgery, Dystocia, Ultrasonography, Vaginal Cytology and Other services, Blood samples tested (large and small animals), Ultra Sound scanning, Electrocardiography, Fecal Sample testing (Small and Large animals), Skin scrapings examination, ABST and Culture- Pus (Bovine), ABST and Culture- Pus (Canine), urine, ear swabs, ABST- Milk, RBPT for Brucellosis- Serum, Bacterial Culturing- Pus, Total Bacterial counts, Total Coliform counts- Water, Microscopic Examination, and ABST- canine blood, ELISA for Jhone's Disease- Sheep serum, ABST and Culturing, RFFIT for Antirabies- Dog and cat serum, DFA for Rabies diagnosis- Brain and saliva, Blood Samples, Faecal Samples, Gross worms, Skin Scrapings, Caninene necropsy, Bovine necropsy, Equine necropsy, Felines necropsy, Ovine and Caprines necropsy, Piglets necropsy, Laboratory Animals necropsy, Poultry necropsy, Rabies diagnosis, Exfoliative cytology, Histopathology, Radiography and C-Arm imaging X-ray, Examination of Bulls for various surgical affections at Nandini Sperm Station, Kakolu, Hessaraghatta, Bengaluru, Treatment of Bulls suffering with hoof lesions and limping at Nandini Sperm Station, Kakolu, Hessaraghatta, Bengaluru, Blood samples, Skin scrapings, Urine samples, Faecal analysis of sloth bears of Bannerghatta national park, Facecal sample analysis for parasitic infestation of elephants Mathigod elephant camp, Haematological analysis of blood of elephants of Mathigod elephant camp and Serological analysis of blood of elephants of Mathigod elephant camp	28370
2	Veterinary College, Bidar	Radiographs, Ultrasonography, C-arm, Ophthalmoscope, Endoscopy, Post-mortem, ECG, Animal blood sample, analysis, Serum sample analysis, Animal faecal sample, skin scrapings, Microbial and anti microbial assays, Blood zoonotic diseases, ABST, Histopathology/ Cytology, Urine analysis, Ruminal fluid, Water samples, Milk / meat samples, Pus Samples, Pregnancy diagnosis, Vaginal discharge, Nasal sample, Analysis of poultry, cattle feeds and Air quality analysis, Qualitative diagnostic tests done for presence of heavy metals, nitrate, cyanide in suspected samples received, from Clinics and Swab samples	3495



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3	Veterinary College, Shivamogga	Blood samples for haemoparasites, Fecal sample for parasitic egg/ova, Skin scrapings of clinical cases, Arthropod parasites of clinical cases for identification, Blood and Fecal samples of Tiger, Lion, Leopard, Sambar, Ostrich Ungulates and wild birds, Clinical Samples analyzed, Necropsy - Domestic animals, Wild animals, i) Laboratory tests: Number of clinical samples examined in the central clinical laboratory of TVCC during the period from 01-04-2016 to 31-03-2018, ii) Diagnostic tools: a) Ultrasonography scanning: 36, b) Electrocardiogram (ECG): 48, Isolation studies and ABST of clinical samples(Samples of domestic animals), Isolation studies and ABST of wild-life samples (Lion safari of Thyavarekoppa and Elephant sanctuary, Sakrebylu) and Diagnostic field visits Radiography	2790
4	Veterinary College, Hassan	Dept. of AH and VS -8; Other farms – 35; Faecal sample- 96; Blood sample- 756; Urine sample- 49; Milk sample- 32; Rumen fluid- 73; Skin scraping- 43; Others – 24; Milk screening for sub clinical mastitis; Screening of samples for detection and isolation of various pathogens; antimicrobial sensitivity (Samples for ABST – 40); (Samples for BQ - 21); (Samples for HS - 51); (Samples for Mastitis - 26); (Samples for Anthrax - 8); (Samples for Actinomycosis - 1); (Samples for Brucellosis – 439); (Samples for Rabies - 3); (Samples for leptospirosis - 7); (Samples for fungal infections - 16); (Samples for pyogenic infections - 16); (Samples for TRP - 5); ECG, Haematology; Blood sample analysis-20; Urine sample analysis – 15; Examination of milk, water etc; Cattle – 24; Sheep – 49; Goat – 17; Poultry – 555; Rabbit – 62; Pig – 25; Dog – 06; Cat- 01; Pigeon – 01; Ostrich – 02; Eagle – 01; Clinical analysis of samples: CSF– 01; Urine – 06; Cytology – 142; Histopathology – 87; Pesticide Plant poisoning Poisoning, Heavy metal poisoning Rodenticide poisoning, Plant poisoning Nitrate and Cyanide poisoning; Radiography-376; Ultrasonography-134; c-arm-35; endoscopy-06; ophthalmoscopy/phaco-11; Infra Red physiotherapy-20; US physiotherapy-10	4888
5	Veterinary College, Gadag	Hematology, Biochemistry, Skin Scrapings, Milk sample testing, Fecal sample test, Urine exam, Nasal Scraping, Histopathology	108
6	Dairy Science College, Bengaluru	-	-



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7	Dairy Science College, Kalaburagi	-	-
8	College of Fisheries, Mangaluru	Microbiological and molecular diagnosis of fish/shrimp pathogens	230 samples
9	IAHandVB, Bengaluru	-	-
10	IWVR, Doddaluvara-Kodagu	Faecal analysis of sloth bears of Bannerghatta national park Faecal sample analysis for parasitic infestation of elephants Mathigod elephant camp Haematological analysis of blood of elephants of Mathigod elephant camp Serological analysis of blood of elephants of Mathigod elephant camp	60 25 23 23 Total 131
11	LRIC, Hallikhed-Bidar	-	-
12	LRIC, Nagamangala-Mandyā	Disease diagnosis	540
13	LRIC, Konehalli-Tumakuru	Pregnancy diagnosis and infertility	85
14	BRIC, Dornalli-Yadgir		
15	CRIC, Timmapur-Bagalkot	Ultrasonography for scanning	35
16	FRIC, Hebbal-Bengaluru	Soil, water and fish health investigation services, feed analysis and plankton analysis	3196
17	FRIC, Hesaraghatta-Bengaluru	-	-
18	FRIC, Bhutnal-Vijayapura	Diagnosis of Fish	36
19	FRIC, Ankola-Uttar Kannada	Water testing for Salinity, PH and Temperature	25
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	Soil Sample Water Sample Problamatic field visit	105 103 15 Total 223
21	AHP, Konehalli-Tumakuru	Screening Fecal Samples of Amrithmahal Cattle, Sheep, Goat, Pig and Cross breed Animals of LRIC (A), Konehalli. Blood examination for hemoglobin estimation in Amrithmahal cattle and cross breed cows Examination of Skin Scrapings Milk Adulteration Test	150 20 22 15 Total 207





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22	AHP, Kunnur-Haveri	Blood, urine, faeces and milk samples examination	15
23	AHP, Koravangala-Hassan		-
24	AHP, Bargi-Chamarajnagar		-
25	AHP, Dornalli-Yadgir	-	-
Total			44374

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	Male calves	11 21,76,312.00
		Sheep	9 36,850.00
		Piglets	246 6,57,120.00
		Root slips	13,574/- 13,574.00
		Fodder root slips	30,000 0.00
		Day old chicks	159456+2912 29,22,594.00
		Day old parent chicks	9200+122 11,90,000.00
		Hatching eggs	96662 10,00,589.00
		Table eggs	22219 95,449.00
		Broken eggs	2084 5,518.00
		Feed	108977.5 kgs 29,97,618.70
		CD	2 100.00
		Soyabean meal	500 kgs 22,941.00
		Manure	21 tons 3,150.00
		Birds	4473 11,66,718.00 (12029.90 kgs)
		Paddy husk	- 6,634.00
		Gunny bags	- 0.00
		1 st week day old chicks	- 0.00
		2 nd week day old chicks	2333 93,260.00
		3 rd week day old chicks	386 19,300.00
		4 th week day old chicks	4 272.00
		5 th week day old chicks	5 350.00
		Total	
2	Veterinary College, Bidar	Milk (Litres)	4800.00 1,33,227.00
		Sheep (No's)	14 47,700.00
		Male Goat (No's)	10 22,600.00
		Buffaloes (No's)	01 4,500.00
		Cattle (No's)	01 200.00
		Cattle male calf (No's)	12 64,000.00
		Sale of birds (No's)	244 35,471.00
		Cashew nut produce (No's)	- 10,000.00
		Mango produce	- 19,600.00
		Total	



RURAL ORIENTED & FARMER FRIENDLY
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3	Veterinary College, Shivamogga	a. By sale of Piglets and Pig b. Sale of milk c. Sale of cattle and poultry feed d. Sale of sheep and goats e. Fodder production F. Grain production and Sale g. Sale of root slips h. Sale of Mineral mixture i. Sale of eggs	14,24,907.00
4	Veterinary College, Hassan	800 tree saplings Pig - 128; Sheep -18; Goat -10; Milk -10103 litres; Rabbit -13; Poultry -2985 Seeds 40 kgs	Supplied to the training participants and other farmers
5	Veterinary College, Gadag	-	-
6	Dairy Science College, Bengaluru	-	-
7	Dairy Science College, Kalaburagi	Five varieties of fodder seeds supplied to five farmers one Sedam Tq and two Aland Tq of Kalaburagi dist. Two Kalaburagi district (Establishment of fodder nurseries minimum of five varieties in two guntas each).	This activity was carried out under Sujala-III from our college
8	College of Fisheries, Mangaluru	Catla fingerlings: 8625 Rohu fingerlings:7350 Common carp fingerlings:7320 Ornamental fishes: 1500	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.
9	IAHandVB, Bengaluru	100 Pigs	All piggery farmers were advised about the latest trending diseases and its control measures,
		500 Pigs	Disease investigation of CSF and brucella outbreak in swine
		600 Pigs	Breifing about vaccination schedule, feeding regime and Biosecurity maintenence





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10	IWVR, Doddaluvara-Kodagu	-	-
11	LRIC, Hallikhed (Deoni)-Bidar	Fodder stem cuttings: 2,00,650 Fodder root slips: 24,550 Fodder seeds: 206 kg Mudhol Hound pups: 12	-
12	LRIC, Nagamangala-Mandy	50 Elite Breeding Mandya Rams 380 Fodder Root slips	Under Mega Sheep Seed Project on Mandya Sheep (ICAR funded Project) To the needy farmers
13	LRIC, Konehalli-Tumakuru	Piglets - 136 Sale of Sick sow/Bore -09 Sale of Sheep -35 Sale of Tamrind Sale of Ragi	56 Nos. farmers were benefited 09 Nos. farmers were benefited 22 farmers were benefited 01 No. beneficiaries were benefited Sold at APMC, Arsikere
14	BRIC, Dornalli-Yadgir	-	-
15	CRIC, Timmapur-Bagalkot	Mudhol hound pups-487 (229M and 258F)	Distributed pups to 244 beneficiaries under SCSP/TSP
16	FRIC, Hebbal-Bengaluru	Fish seed - 5,20,450 Nos. Bulk fish sold: 91 kg	Fish seeds supplied to farmers in Bengaluru rural and urban, Kolar, Hassan, Madikeri, Chamarajanagara, Mandy, Ramanagar, Chickballapur, Tumkur districts.



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17	FRIC, Hesaraghatta-Bengaluru	Fish seed - 6,67,284 Nos. Ornamental fish - 52,275 Nos.	-
18	FRIC, Bhutnal-Vijayapura	Revenue collected Rs 4,55,402.00 No. Seeds : 4,14,960.00	4,55,402.00
19	FRIC, Ankola-Uttar Kannada	-	-
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	Poultry Birds-4952 No.; Fish seeds-5615 No.; Pig/Piglets-33 No; MO4 Paddy seeds-2409 Kg.; Green gram seeds-28.5 Kg.; Trichoderma-10 Kg.; Bhendi Seeds-1.5 Kg Milk-20711 Ltr.; Papaya Fruits-336 Kg.; Mattu gulla-24 Kg.; Coconuts-2928 No.; FYM-393 Cft. and Vermi Compost-65Kg.	-
21	AHP, Konehalli-Tumakuru	Lucerne seed, hybrid nappier root slips, Susbenia and Moringa saplings	115 beneficiaries were benefitted
22	AHP, Kunnur-Haveri	Mudholo Puppies - 14	-
23	AHP, Koravangala-Hassan	-	-
24	AHP, Bargi-Chamarajnagar	-	-
25	AHP, Dornalli-Yadgir	-	-
Total			1,46,25,957.00

10. Consultancy / Advisory Services

#	College / Institute	Total Number	Remarks
1	Veterinary College, Bengaluru	1	At Krishmela organized by UAS, Bengaluru
		85	Livestock Production and Management aspects
		304	Feeding of calves, nutritional management and care. Feeding of sheep and goat. Ration formulation for ruminants and poultry
		400	Advised farmers of various farming activities on daily basis
		176	Various breeding related problems of pets, livestock
		255	Consultancy given to the farmers/software professionals regarding dairy, sheep and goat, piggery, rabbitry farming and fodder production and conservation techniques
		3	Bannerghatta national park and Mysuru zoo Disease investigation, diagnostics and therapy
		2	Animal Health Advisory Committee



RURAL ORIENTED & FARMER FRIENDLY
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	421	Poultry farmers, Dairy farmers and Pet owners visited the department for disease diagnosis and suggestion.
	5	Consultancy services to field veterinarians/ Government Institutions
	261	Giriraja and Swarnadharma farming, commercial and native chicken rearing details to farmers, trainee officers and students from other organizations
	2	Served as Nodal officer for FMD-CP for Mandya district and Served as Member of Committee set up to examine setting up of Sewage treatment plant at Kunigal Stud farm, Karnataka
	328	Addressed the field problems faced by farmers and field Veterinarians, personally by Phone, email and SMS
	3	-
	8	Visit to Mysuru zoo, Mathigodu elephant camp, Kokkre bellur bird sanctuary for disease investigation, consultancy and sample collection
	Total	2254
2	Veterinary College, Bidar	870
3	Veterinary College, Shivamogga	68
		1
		Treatment of rubber plant toxicity (Dr. Sripada Rao VH, Sagar [15.10.2017])
		1
		Treatment of coconut oil toxicity (Dr. Dayanand VH, Sagar 25-10-2017)
		1
		Treatment of <i>Ficus tsjahela</i> toxicity (Dr.P.S.Hegde)
		10
		Veterinary Officers of AHVS, Treatment of poisonings, antimicrobial therapy, druginteractions
		1
		Karnataka Sheep and Wool Development Corporation Ltd. Hebbal,Bengalure-560024 As member in price fixing committee on live weight basis for sheep and goat at APMC
		3
		Consultacy service to Farmer, Kotegangur, Shivamogga, To Solve problem for SNF and Fat in village, As advice for establishment of Poultry farm,



RURAL ORIENTED & FARMER FRIENDLY

		35	To Dairy/Sheep/Poultry/Rabbit farmers
		170	Dept, of LFC, Consultancy in various farming activities
		04	Department of Veterinary Medicine a. Investigated disease outbreak in sheep and goat in Agasavalli village of Shivamogga Taluk and technical advice on treatment and control are given. b. Visited Agriculture and Horticulture Research Station, Honnavile for the health check up of calves, cows, bullocks and sheep of the station and examination of a cow suffering from Downer cow syndrome and technical advice was given. c. Visited Sugur village of Shivamogga taluk for the investigation of rabies in cattle and technical advice was given regarding preventive measures. d. Visited Kommanahalli village of Bhadravathi taluk for the investigation of corneal opacity and blindness in cattle and sheep and technical advice was given to the Veterinary officer in-charge for the treatment and control of the clinical problem.
		151	Dept of VMC,VCS(Isolation studies and ABST-domestic)
		09	Dept of VMC,VCS(Isolation studies and ABST-wild animals)
		02	Dept of VMC,VCS(Diagnostic field visits)
		01	Sakrebylu elephant Camp (06.12.2017) Operated for "Foreign body in the eye"
	Total	457	
4	Veterinary College, Hassan	12	Consultancy over phone call on different animal husbandry practices and on indigenous cattle rearing
		64	Feeding management of dairy cattle, sheep and goats, pigs, rabbits, poultry, low fat and SNF problem, feed preparation, calf strater, fodder conservation and enrichment
		22	Regarding Poultry farming, Piggery, Rabbitry farming at various villeges of Hassan
		15	Regarding Dairy, Sheep, Goat, Pig rearing, Rabbit and poultry farming and at various villages of Hassan



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		4	Preparation of milk and products, analysis of milk parameters
		75	Through phone and farm visits
		48	Provided information about Rabbit farming, Poultry farming, Dairying, Sheep and Goat farming
		12	Various aspects of Animal husbandry
		28	After screening of samples received suitable consultancy was provided
		12	Through phone and farm visits
		333	Diagnostic services to various institutions
		25	Problems encountered in Rabbit farming
		15	Problems regarding milk adulteration, microbial quality of milk, zoonotic diseases, water hygiene were addressed.
		460	Problems tackled in various disease conditions encountered in cattle, sheep, goat, pig, rabbit, fish and poultry
		53	Through phone and farm visits
	Total	1178	
5	Veterinary College, Gadag	3	Farmers and allied dependents
		4	Animal husbandry practices
		70	Disease diagnosis and treatment
	Total	77	
6	Dairy Science College, Bengaluru	1	About manufacturing and utilization of whey proteins
		20	Samples of milk, UHT milks, Khoa, Paneer and Skim Milk powders were analyzed upon request from KMF, Private Dairies
		10	Generated 27 lacs Funds
		4	The samples (2) did not show presence of coliforms while 2 showed coliforms
		Total	35
7	Dairy Science College, Kalaburagi	3	These programmes were carried in 03 different village on dry fodder enrichment, Role of live stock in sustainable agriculture and demonstration of preparation of low concentrate feeds using locally available ingredients at Pastapur and Khairat Chincoli villages
8	College of Fisheries, Mangaluru	26 fish farmers	Consultancy has been given to the farmers about culture of fish, prawn, shrimp, crab and breeding of ornamental fishes. Health management in aquaculture. Public health management by larvivorous fishes etc



RURAL ORIENTED & FARMER FRIENDLY
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		769 samples	Shrimp health status/pathogens, control/management measures; on water quality parameters and steps to be taken to prevent waterborne infections. Revenue of Rs. 11.37 lakhs generated by sample analysis.
		-	Diagnostic visit on 18.05.2017 to Vented dam built across Gurpur river, Near Maravoor, Mangaluru.
		-	Diagnostic vist on 25.05.2017- to Maravoor dam, Gurpur river Water, Sediment and Plankton samples were analysed and report submitted to the District commissioner and KSPCB
		40	Services such as identification of fin fishes and shellfishes for local fishermen and students of various colleges and institutes. Consultancy services provided to coastal fishermen on conservation and sustainable utilization of marine fisheries resources. PFZ advisory provided by INCOIS is being disseminated to stakeholders of Dakshina Kannada and Udupi Districts. Information shared with farmers at Pashu and Matsyamela.
		2	Technology on use of square mesh codend was given to Govt. of Karnataka for conservation of juveniles and sub adults. Technological information on bull trawling and Light fishing was given to Govt. of Karnataka for conservation and management of fisheries resources.
		25 participants	NET FISH MPEDA and NGOs Dec-2017 Hands on training programme on value added fish products preparation Fisherwomen and Self help group members
	Total	862	
9	IAHandVB, Bengaluru	-	-
10	IWVR, Doddaluvara-Kodagu	1	Visit to Mysuru zoo for advisory committee meeting
		2	Visit to Mathigodu elephant camp for the health consultancy



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		2	Visit to Kokkre Bellur bird sanctuary for health consultancy
		2	Visit to Mathigodu elephant camp for the consultancy and sample collection
		1	Visit to Kokkre bellur bird sanctuary for disease investigation
	Total	8	
11	LRIC, Hallikhed-Bidar	500	Scientific livestock management practices
12	LRIC, Nagamangala-Mandya	106	An average of 70 phone calls is being attended to give the information on Sheep rearing and management
13	LRIC, Konehalli-Tumakuru	2041	Advisory Service was given to the farmers on Fisheries, Dairy Farming, Sheep and Goat Farming, Piggery Farming and Integrated Farming System 9
14	BRIC, Dornalli-Yadgir	-	-
15	CRIC, Timmapur-Bagalkot	110	Telephone advice to 110 people regarding Mudhol Hound Dog Rearing
16	FRIC, Hebbal-Bengaluru	276	Fish culture, disease, fish mortality in tanks, ornamental fishes
17	FRIC, Hesaraghatta-Bengaluru	125	Fish culture, disease, fish mortality in tanks, pond construction, fish culture in ponds and tanks, disease, water quality management and disease
18	FRIC, Bhutnal-Vijayapura	1526	Information about fish farming, pond construction, water quality aspects, availability of traditional feed
19	FRIC, Ankola-Uttar Kannada	20	Shrimp/fish/ornamental fish farming ,Tidal chart reading ,Crab culture
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	1119	Consultancy provided to farmers through Telephone on Technical aspects of Agriculture and allied enterprises
21	AHP, Konehalli-Tumakuru	70	Advisory Service was given to the farmers on Dairy Farming, Poultry Farming, Sheep and Goat Farming, Piggery Farming and Integrated Farming System
22	AHP, Kunnur-Haveri	45	On varioius aspects of animal husbandry
23	AHP, Koravangala-Hassan	-	
24	AHP, Bargi-Chamarajnagar	-	
25	AHP, Dornalli-Yadgir	-	-
	Total	11679	



RURAL ORIENTED & FARMER FRIENDLY

11. Activities on Village/Farm Adoption

VETERINARY COLLEGE, SHIVAMOGGA

- * Participatory Rural Appraisal
- * Impact assessment on livestock production parameters
- * Ambulatory Clinical Services –Twice a Week
- * Farm and home visit
- * Ideal low cost Shed construction
- * On Farm Demonstration

DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)

- * During rural dairy work experience programme arranged at Doddatumkur village, Doddaballapura Taluk from 20th Feb. 2017 to 1st March 2017, teaching staff of the department assisted the IV year students to adopt clean milk practices at producers place.
- * A lecture was delivered by Dr.B.Ramachandra to the milk producers of the village regarding 'CMP' on 28th Feb.2017.

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, Ballari	Halakundi Village of Ballari Taluq, Ballari 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, Kalaburagi	Srinivasa Saradagi Village of Kalaburagi Taluq, Kalaburagi District
6	ADDL and IC, Bidar	Asttagi 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





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BIDAR

In the villages adopted by ADDLandIC, 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.

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 (6M + 6F) along with Food and Other supplements for one year.
- * Among the 6 females all have reached puberty and successfully mated and conceived.
- * One of female has given birth to 6F+1M with projected income of 42 thousand. Hence, enhancing the livelihood of the farmer.

Mudhol Hound to India Army, RVC and SSB:

- * 06 dogs (05Male and 03 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, Bangalore
- * The dogs are successfully trained in various activities at RVC, Meerut and presently, all dogs have been posted at Shrinagar border area.
- * The government of India and RVC in collaboration are thinking to breed Mudhol Hound Dogs at RVC, Meerut for further propagation of the breed, for better adoption and conserving indigenous breed in the northern parts of India
- * Apart from this Sashastra Seema Bal, Rajasthan peoples also inducted Indian Breed Mudhol Hound for training.

FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU

- Dr. K.N.Prabhudeva, has been visiting RH Camp, Sindanur in Raichur district for the past 17 years and has adopted the fish farmers guiding them to avail bank loan from DCC bank, Sindhanur take up fish farming.

KRISHI VIGYAN KENDRA, DAKSHINA KANNADA

1. On Farm Testing (OFT) Status: (2017-18)

#	Title of OFT	No. of trials	Area (ha.)	Villages/ Taluk	Status
1	Assessment of Pruning time in Udupi Jasmine	05	01	Mooda, Bantwala	Flowering stage
2	Assessment of growth performance of Amur carp with catla and rohu	03	-	Konaje Mangaluru Tq., Padu Marnadu, Ajara Katte, Belthangady	Amur carp slightly showing good growth than catla and rohu



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TUMKUR

2. Front Line Demonstrations (FLDs) Status: (2017-18)

#	Title	No. of Demo.	Area (ha.)/Units	Villages/ Taluk	Stage of the crop
1	ICM in Paddy	10	4.0	Kaliya, Odilala, Jorigebaily- Belthangady Tq.	Harvested and Field day is conducted
2	Introduction of power operated paddy weeder	10	2.0	Panolibailu	Under progress
3	ICM in Sesamum	10	4.0	Kajoor, Killer, Belthangady Tq	Harvested and Field day is conducted
4	Introduction of High yielding Yard Long Bean variety (Arka Mangala)	05	1.0	Devasavaduru, Vogga	Harvesting stage
5	Integrated crop management in Okra (cv. Halubendi)	05	1.0	Beluvai, Moodbidri	Harvested and Field day is conducted
6	Integrated Pest and disease management in Jasmine	05	0.5	Chennaithodi, Bantwal Tq.	Flowering stage
7	Effect of area specific mineral mixture on the productive performance of milch animals	05	0.0	Mudushedde- Mangaluru Tq.	Conducted field day
8	Supplementation of Iron and other micronutrients and deworming to reduce piglet mortality	03	0.0	Pedumale	Farmers selection and deworming of piglets done
9	Integration of poultry with fish farming	03	0.3	Puduvettu, Dharmasthala, Belthangady, Modbidare	Poultry birds are showing good growth with that slightly fishes are growing nicely

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU

- * A Socio-economic survey was conducted at different villages of Arsikere taluk by the Diploma students of Animal Husbandry Polytechnic as a part of their curriculum and Extension work of AHP Konehalli. Treated Ailing Animals of the Surrounding villages of the Institution.
- * Advisory services were given on clean milk production to the farmers of the surrounding villages.



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12. Distinguished Visitors to the Institutes

#	Name, Designation and Institute	Date	Purpose
VETERINARY COLLEGE, BENGALURU			
1	Abdul Rauf, Progressive Farmer, Uttara Kannada	18.11.2017	Farm visit
2	C. Narayana Swamy, MLA, Hebbala, Bengaluru	11.12.2017	Farm visit
3	Kumar Naik, progressive Farmer, Davanagere	05.10.2017	Farm visit
4	OIE team along with Dr. S.S. Honnappagol	06.03.2018	To visit the Department
5	DVM students from Oregon university, USA	July-2017	For one month training programme
6	Dr. A.N. Shylesha Principal Scientist ICAR-NBAIR PB No. 2491, HA Farm Post Ballari Road, Hebbal Bengaluru -560 024		
7	Dr. Bhaskaran Ravi Latha Professor and Head Dept. of Veterinary Parasitology Madras Veterinary College TANUVAS, Chennai-600007		
8	Dr. Kesavan Subaharan Principal Scientist ICAR-NBAIR Bengaluru		
9	Dr. T.Venkatesan Principal Scientist NBAIR, Hebbal, Bengaluru -560 024		
10	Dr. P. Azhahianambi Assistant Professor Dept. of Veterinary Parasitology Madras Veterinary College TANUVAS, Chennai- 600007	During 14.11.2017 to 4.12.2017	Resource Scientists and experts for the XXI National Training Programme on “An update on vectors and vector-borne diseases”
11	Dr. T.N.V.K.V. Prasad Senior Scientist Nanotechnology laboratory Institute of Frontier Technology Acharya N G Ranga Agricultural University Tirupati -517 502		
12	Dr. A.R.Rajavel Scientist ‘D’(Retd.) Vector Control Research Centre Medical Complex Indira Nagar Gorimedu, Puducherry-605006		



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13	Dr. P. P. Sengupta Principal Scientist NIVEDI, IVRI Campus Ramagondanahalli, P.B. No. 6450, Yelahanka, Bengaluru 560064		
14	Dr. S.L. Hoti Scientist 'G' and Director- in- Charge Regional Medical Research Centre(ICMR) Nehru Nagar, Belagavi-590 010 Karnataka		
15	VPP- Dr. Anil Kumar, Scientists, Sri. Chitra Tirunal Medical Research Institute, Trivandram, Kerala.	9-11 Nov, 2017	Technical discussion on International conference 2017
16	Dr. Balasubramaniyan, Prof. and Head, Dept. of Vety. Pathology, Vety. College, Namkal.	9-11 Nov, 2017	Technical discussion on International conference 2017 External Examiner for M.V.Sc. students
17	Dr. Balachandran, Dean Madras Veterinary College, Chennai	9-11 Nov, 2017	Technical discussion on International conference 2017 External Examiner for Ph.D. students.
18	Dr. N. Divakaran Nair, Prof. and Head, Dept. Of Vety. Pathology, College of Vety. And Animal Sciences, Mannuthy, P.O., Thrissur.	20.10.2017	Conducted Final Viva- Voce Examination for Ph.D. Students.
19	Dr. S. Vaira Muthu, Prof. and Head, Centralised Clinical Laboratory, Madras Vety. College, Vepary (TN) Chennai.	21.10.2017	Conducted Final Viva- Voce Examination for Ph.D. Students.
20	Dr. Vaira Muthu, Prof. and Head, Centralised Clinical Laboratory, Madras Vety. College, Vepary (TN) Chennai.	03.02.2018	Conducted comprehensive Viva- Voce Examination for MVSC Students.
21	Dr. Balasubramaniyan, Prof. and Head, Dept. of Vety. Pathology, Vety. College, Namkal.	14.02.2018	External Examiner for Ph.D. thesis
22	27 trainee officers, from different states and country on training at CPDO Hesaragatta visited Department of Poultry Science, Veterinary College, Bengaluru	21.09.2017	To learn about Giriraja and Swarnadhabra farming under back yard





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23	Mr Sonja Jacoba de wit Mr Tamar van der Vossen, Postgraduate students from the University of Utrecht, Netherlands	15.05.2017 and 16.05.2017	Veterinary students from Holland visited the department Organised by Commonwealth Veterinary Association
24	Students from Oregon State University There were Six students, they visited the department in two batches:	Batch I: 10.07.2017 to 15.07.2017 Batch II: 17.07.2017 to 22.07.2017	For the Extern ship Programme

VETERINARY COLLEGE, BIDAR

1	Sri Eshwar Khandre, District In – Charge Minister, Bidar	01.11.2017	Visited VCC and observed the activities of different units
2	Prof. Suresh, S. Honnappagol, Animal Husbandry Commissioner, Department of Animal Husbandry, Dairying and Fisheries, Government of India.	21.12.2017	Inauguration of XXVI Annual Conference and National Symposium of SAPI, 21 st – 22 nd Dec., 2017, Veterinary College, Bidar
3	Prof. M L Madan, Former DDG and Vice Chancellor, New Delhi.	21.12.2017 to 22.12.2017	Attended XXVI Annual Conference and National Symposium of SAPI, 21 st – 22 nd Dec., 2017, Veterinary College, Bidar
4	Dr. B S Prakash, ADG (Animal Physiology and Nutrition), ICAR, New Delhi	21.12.2017 to 22.12.2017	Attended XXVI Annual Conference and National Symposium of SAPI, 21 st -22 nd Dec., 2017, Veterinary College, Bidar
5	Dr. Y Hari Babu, Vice Chancellor, SVVU, Tirupati	14.11.2017	As chief guest to College foundation day
6	Dr. P M Salimath, Vice Chancellor, UAS, Raichur	17.01.2018	As chief guest to university Foundation day

VETERINARY COLLEGE, SHIVAMOGGA

1	Dr. R.V. Prasad, Vice-Chancellor, KVAFSU, Bidar	04.10.2017	Reviewd the facilities of laboratory and gave suggestions
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KARNAKA VETERINARY AGRICULTURE & FISHERIES COLLEGE
BIDAR

2	Shri. Manohar Maski, Former Minister	12.11.2017	Got information about the Local Medicine
3	Animal Husbandry Commissioner, Govt of India	29.01.2018	For Institute visit and attending Conference
4	Vice Chancellor, KVAFSU, BIDAR	29.01.2018	For Institute visit and attending Conference
5	Dept of Vety Microbiology	21.03.2017	PG-Accreditation Committee for Recognition of PG Dept
VETERINARY COLLEGE, HASSAN			
1	Various schools of the Hassan city	-	Exposure given to school children, science teachers, awareness created regarding zoonotic parasitic diseases
VETERINARY COLLEGE, GADAG (VCG)			
1	Shri. A. Manju, Honble Minister, AH and Siriculture	25.09.2017	Inauguration of Veterinary College, Gadag
2	Shri. H. K Patil, Honble Minister, RDPR and Dist Incharge Minister		
3	Shri. B.R. Yavagal, MLA Naragund		
4	Shri. G. S Patil, MLA Ron		
5	Shri. Ramkrishna doddamani MLA Shirahatti		
6	Shri. Vasappa Kuradagi, ZP President Gadag		
7	Smt. Roopa Angadi, VP, ZP Gadag		
8	Shri. Krishnegouda Patil, President TP Gadag		
9	Shri. B.B Asuti, President CMC Gadag		
10	Shri. Manoj Jain, DC Gadag		
11	Shri. Manjunath Chauhan CEO ZP Gadag		
12	Shri. Nagabhushan Kamathane, Member, BoM		
13	Shri. Iresh Anchatageri, Member, BoM		
14	Shri. Mallikarjun Biradar, Member, BoM		
15	Smt. Lumbini Goutham, Member, BoM		
16	Dr. R. V Prasad, Acting VC, KVAFSU		
17	Dr. Shivananadmurthy, Registrar, KVAFSU		
18	Honb'le Vice Chancellor ,RDPR University		
19	Registrar, RDPR University		
20	Dr. Bhushareddy, Director, GIMS	28.02.2018	Freshers Day
DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)			
1	HMT officers and president of Bangladesh Diploma engineers associate Dhaka	13.11.2017	Awareness about milk and milk products production and processing
2	DEVIN international school student visit to SEDP	27.02.2018	Awareness about milk and milk products production and processing





RURAL ORIENTED & FARMER FRIENDLY
COLLEGE OF FISHERIES MANGALURU

COLLEGE OF FISHERIES, MANGALURU (FCM)

1	Dr. Devika Pillai, Professor, KUFOS, Panangod, Kerala	31.01.2018	To conduct Masters and PhD students comprehensive exam viva-voce
2	Dr. PSBR James, Rtd Professor and Former Director, CMFRI	09.01.2018	Visited the Department and discussed with students and staffs
3	Mrs Rani kumudini, IAS, NFDB, Chariman	27.01.2018	Visited the college and meet the Dean with Head of Division
4	Dr. David Stephen, Chief Technical officer SAF Fisheries Co. LLC, New York, USA	14.02.2018	Visited the campus and address and the staff and students on opportunities for higher studies and jobs at overseas
5	Dr. Uma Shankar Sagaram and Mr. Ashish Geete Reliance Research And Development, Algae Division, Mumbai	22.03.2018	To explore the possibilities for joint collaboration in Rand D in the field of Fish feed technology
6	Dr. J.K. Jena, DDG (Fisheries), ICAR, New Delhi	10.04.2017	College visit
7	Ronins Mcintosh, Vice President- CP Aquaculture, Thailand	16.05.2017	Gave a talk on shrimp Genetics and stock improvement
8	Dr. B.B. Nayak, Principle Scientist, CIFE, Mumbai	27.06.2017	Conducted PhD final defense and delivered a scientific talk
9	Dr. Paul, Additional Secretary, ICAR- DARE, Govt. of India, New Delhi	01.07.2017	College visit
10	Dr C Raul, Additional Secretary DARE, Secretary ICAR, New Delhi	01.07.2017	Addressed the HOD's and Visited Departments and Hostels
11	Dr. Srinivas Reddy, Principal Scientist- ICAR, ATARI, Bengaluru	01.07.2017	Visited the College of Fisheries, Mangaluru.
12	Dr. P Chaudappa, Director, CPCRI, Kasargod	01.07.2017	Visited the College of Fisheries, Mangaluru
13	Mohmmed Reza Khalili, Research Counsellor of Islamic Republic of Iran, New Delhi	19.10.2017	Interacted with staff of the department and HoD's and made short visit to departments and hostels
14	Dr. Nawab Ali, Former DDG (Ag.Engg) ICAR PUSA, New Delhi and Chairman QRT, ICAR-AICRP (PHET) Ludhiana	15.11.2017	Reviewed the activities of ICAR-AICRP on PHET, KVAFSU, Mangaluru Centre





RURAL ORIENTED & FARMER FRIENDLY
KARNAKA VET AGRICULTURE & FISHERIES
SCIENCE & TECHNOLOGY UNIVERSITY

15	Dr. D.C. Joshi, Principal and Dean (FPT and Bioenergy), AAU, Gujarat and Member QRT, ICAR-AICRP (PHET) Ludhiana	15.11.2017	Reviewed the activities of ICAR-AICRP on PHET, KVAFSU, Mangaluru Centre
16	Dr. S.K. Dash, Professor and Head (APandFE), OUAandT, Bhubaneswar, Orissa and Member QRT, ICAR-AICRP (PHET) Ludhiana	17.11. 2017	Reviewed the activities of ICAR-AICRP on PHET, KVAFSU, Mangaluru Centre
17	Dr. R.K. Gupta, Project Co-Ordinator ICAR-AICRP (PHET) and Director ICAR-CIPHET, Ludhiana, Punjab	18.11. 2017	Reviewed the activities of ICAR-AICRP on PHET, KVAFSU, Mangaluru Centre
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU			
1	T.K.Ghosh , Consultant (RKVY) Ministry of Agri and Farmer Welfare, Krishi Bhavana, New Delhi.	25.5.2017	-
2	Nammalwar Sriranganathan, Professor of Microbiology, VMCVM, Virginia Tech, Blackburg, USA	06.07.2017	-
3	Raja Gopal Sunkara and Rahul Hooda, Assistant Secretary, Dept of Animal Husbandry, Dairy and Fisheries Govt of India	29.07.2017	-
4	Vivak Kapur, Professor, PENN State University, USA	25.09.2017	-
5	P.KSwain , JS, Dept of Agriculture Cooperation and Farmer Welfare, Krishi Bhavana, New Delhi.	24.10.2018	-
6	Dr.Amith Banik, Asst Professor, All India Institute of Hygiene and Public Health, part of Gov of India team for Avian Influenza surveillance	08.01.2018	-
7	Christopher Lewis, Valerle A Beason and R.Emerson, Fort Belvoir, VA, USA	07.02.2018	-
8	Viagvander Horst, Director, PENN State University, ABRL	07.02.2018	-
9	Joseph Boson, Director, MRJ Global	07.02.2018	-
10	Howard Bakho OIE PVS expert, UK	05.03.2018	-
11	Snisanne Munstermam, OIE PVS expert, Germany	05.03.2018	-
LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI			
1	Associate Director of Research KAVAFSU, Bidar	11.09.2017	Farm visit
2	Director of Research KAVAFSU, Bidar	06.11.2017	Farm visit and to observed AHP civil work progress
3	Hon'ble Vice-Chancellor KAVAFSU, Bidar	16.12.2017	Farm visit and to enhance fodder production



RURAL ORIENTED & FARMER FRIENDLY
KARNATAKA VETERNINARY AGRICULTURE AND SCIENCE UNIVERSITY

4	Amar D'Souza Souza Pig Breeding Center Chikkamangaluru	19.02.2018	Pig breeding information
5	Associate Director of Research Veterinary Collage, Bangalore	02.03.2018	Auction of Sheep
CANINE RESEARCH and INFORMATION CENTER(MH), TIMMAPUR			
1	Dr. Suresh S.Honnappagol Commissioner Department of AH and VS Govt of India	22 nd oct- 2017	Visited many times and very happy about the development of CRIC Timmapur
2	Dr. B.S.Patil General Manager United India Insurance Co. Ltd Hubli	18 th Feb 2018	Casual visit and appreciated the developments
3	Shri. M.N. Nagaraj Superintendent of police Bagalkot	28 th January 2018	Casual visit and appreciated the developments
4	Shri Govind Karjol MLA, Mudhol	Almost every month	Casual visit and appreciated the developments
FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU			
1	Sri. Pramod Madwaraj, Honourable Minister of Fisheries, GOK	24.04.2017	Visited to FRIC, Hebbal to see the facilities
2	Mr. Dr. Utpal Kumar Sir, Executive Director, NFDB	24.04.2017	Visited to FRIC, Hebbal to see the facilities
3	Steve Tu, Vice president, FOSS Technologies, China	11.01.2018	To check the performance of Foos products at our lab
4	Bharat Aswani, Generam Manger, FOSS technologies	11.01.2018	To check the performance of Foos products at our laboratory
5	Himansu Saxena, Regional Sales Manager, FOSS Technologies	11.01.2018	To check the performance of Foos products at our laboratory
6	Mr. Rajesh, Vdrop technologies, Germany	31.01.2018	To discuss collaborative programmes
7	Mr. Ian Green, VTX pvt ltd. Germany	31.01.2018	To discuss collaborative programmes
FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA			
1	Shree Pramod Madvaraj, Honorable Fisheries Minister, GoK, Karnataka	11.07.2017	Observe the activity of FRIC (I), Hesaraghatta
2	Dr. KC Veeranna Dean, Veterinary Collge, Shimogga	24.06.2017	To observe the activity of FRIC (I), Hesaraghatta



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KARNAKA STATE AGRICULTURE & FISHERIES COLLEGE
BIDAR

3	Irish Anchtageri and Nagashushan Kamatana, Honarable board Member	29.11.2017	To observe the activity of FRIC (I), Hesaraghatta
4	Dr. R. Suresh., Advisor, ASCL	17.01.2018	To observe the activity of FRIC (I), Hesaraghatta
5	Dr. Vijaykumar Yaragal Deputy Dirctor, MPEDA, Karwar	22.02.2018	Training program

FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA

1	Dr. RV. Prasad, Ex.Vice Chancellor, KVAFSU,Bidar	02.02.2018	For inaugral function of Matsya Mela-2018.
2	Dr. Shivaprakesh, Director Of Research KVAFSU,Bidar	02.02.2018	For inaugral function of Matsya Mela-2018.
3	Dr.S.M.Shivaprakash Director Of Extension KVAFSU,Bidar	05.02.2018	For Valedictory function of Matsya Mela-2018
4	Shri. Nagabhushan kamtane and Shri. Mallikarjuna Biradar,Board Of Management, KVAFSU,Bidar Dr. SM.Ustarge, Director Of Extension, KVAFSU,Bidar Shri. Ramappa, EE, KVAFSU, Bidar	13.07.2017	Visited to FRIC
5	Shri. Eresh Inchatgere, Board Of Management KVAFSU,Bidar	02.02.2018	For inaugral function of Matsya Mela-2018
6	Smt.Lumbini Gowtham, Board Of Management KVAFSU,Bidar	05.02.2018	For Valedictory function of Matsya Mela-2018
7	Genaral Manager and Assistant AGM, NABARD, Bengaluru and Vijayapur	28.12.2017	Visited to FRIC to get the information about fisheries related activities in the Vijayapura district
8	Joint Director of Agriculture,Vijayapur.	04.09.2017	For inaugral function of NRLM
9	Dy. Director, MPEDA, Karvar	03.08.2017	For inaugral function of Eco- Friendly of Sustainable aquaculture

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

1	Diploma Agriculture College, Kumata, (27 Students)	26.05.2017	Farm Visit and Shrimp farming
2	Mr. Vijaykumar Yaragal Deputy Director, MPEDA, Karwar	30.05.2017 26.10.2017	Farm activities and shrimp farming Farm visit of MPEDA trainees (20 nos.)



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KARWARKAVALI VILLAGE AGRICULTURE & FISHERIES COLLEGE
KARWAR

3	Mrs. Flory All India Radio ,Karwar	6.06.2017	Farm visit with regard to shrimp farming practices
4	Mr. Ramadage All India Radio Karwar	6.06.2017	Farm visit with regard to shrimp farming practices
5	Mr. S. V. Kulkarni Assistant Director of Fisheries, Karwar	10.07.2017	Fish farmers' day training programme
6	Mr. Venkaraman Hegde Assistant Director of Fisheries (Grade -I) Karwar	10.07.2017	Fish farmers' day training programme.
7	Mr. M.L Doddamani Deputy Director of Fisheries Karwar	10.07.2017	Fish farmers day training programme
8	Mr. Timmappa M H Assistant Director of Fisheries(Grade-II),Ankola	10.07.2017 16.10.2017 27.02.2018	Fish farmers day training programme Trainees visit
9	Mr. Shivashankar.S W Avanti Feeds,Honnavar	13.07.2017	Farm Visit with regard to shrimp farming
10	Mr. S M Shirodkar Technical officer, MPEDA Karwar	03.08.2017	Farm Visit with regard to shrimp farming
11	Dr. K.K Philipose Project Co-ordinator AINP-Mariculture Project CMFRI-Research Centre Karwar	16.09.2017	AINP-Mariculture project work review meeting
12	Dr. K Vijayakumaran P.S. MRC of CMRI, Chennai	16.09.2017	Visit to the Centre with regard to ongoing activities
13	Mr. R.V Kumar CPF (I) Pvt Ltd Kundapur	4.10.2017	Farm Visit with regard shrimp feed
14	Mr. Guruswamy Ramar Technical Officer MPEDA,Karwar	13.10.2017 26.10.2017	Farm visit with regard to shrimp farming.
15	Dr.Basavakumar K.V Professor of Fisheries,University HOD Dept. of Animal Sciences,UAS Dharwad	24.11.2017	B.Sc(Ag) students Hanumanamatti,Haveri shrimp/fish farm visit
16	Dr.Raghavendra K Pai, Ex-Dean College of Fisheries,Ratnagiri,Maharastra	05.12.2017	Farm visit
17	Dr.Basavakumar K.V Professor of Fisheries,University HOD Dept. of Animal Sciences,UAS Dharwad	06.12.2017	B.Sc(Ag) Ist year students UAS Dharwad shrimp/fish farm visit
18	Mr.Ravindra N Talekar Asst. Director of Fisheries (G-II)	12.02.2018	Fish farmers trainees study tour: farm visit
19	Mr.Narayana K.A Netfish ,MPEDA,Mangaluru	28.02.2018	Resource person for training



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ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU

1	Dr. B.V Shivaprakasha Director of Research KVAFSU, Bidar	06.11.2017	To review the progress of AHP and LRIC(A),Konehalli
2	Dr. R.V Prasad Vice chancellor KVAFSU Bidar	16.12.2017	To review the progress of AHP and LRIC(A),Konehalli

13. Important decisions taken during 12th Extension Education Council Meeting held on 07.06.2017

1. The Director of Extension, KVAFSU, Bidar requested the Chairman of the Committee to temporarily transfer the faculties (till the recruitment is made) in the disciplines of Fishery Science, Dairy Science and Agronomy to KVK-DK as proposal submitted to the Registrar on 01.06.2017. Accordingly, the Hon'ble Vice-Chancellor and the Chairman of the Committee and the Registrar agreed for the same.
2. Dr. Shivalinge Gowda, Professor, UAS, Bengaluru opined that Animal and Veterinary Science should be popularized among the farming community through publication of Pashu Sanjeevini / Pashu Siri.
3. Dr. Shivalinge Gowda suggested to establish Veterinary Technology Information Center at Headquarters and Hebbal Campus.
4. Dr. Shivalinge Gowda emphasized on the establishment of Integrated Farming System at different constituent colleges of the University.
5. Dr. Shivalinge Gowda suggested to give awards and recognitions to the progressive farmers / farm women / farm youth excelling in Animal Husbandry / Indigenous Veterinary Services during mela event annually.
6. Dr. Shivalinge Gowda suggested to coordinate with milk producers co-operative society for dissemination of information to the farming community.
7. Mr. Sunny D'Souza, Progressive Shrimp Farmer, Mangaluru explained the concept of Israeli Bio-flock Technology in simple Kannada which he adapted in his shrimp farm at Suratkal, Mangaluru and further he suggested that fish rearing can be undertaken in saline waters by maintaining proper Potassium: Nitrogen ratio and 10-15 tonnes per hectare fish yield can be obtained and he will help in establishment of a demonstration unit at FRIC, Hebbal and FRIC, Hesaraghatta.
8. Mr. Mahadev Nagure, Progressive Dairy Farmer, Bidar suggested to publish success stories for motivating farmers.
9. Mr. Mahadev Nagure suggested that the University should allocate sufficient budget for the treatment of clinical cases of farmers as the present budget is very meager.
10. Hon'ble Vice-Chancellor and Chairman of the Committee complimented both the experts for their valuable suggestions and specifically drew the attention of members to the rare achievement of Mr. Sunny D'Souza in obtaining a very high yield of 17 tonnes of shrimp crop from one acre pond using Israeli Bio-flock Technology. He further requested him to extend help to our University fish farms to adapt similar technology and also assist small scale fish farmers of inland fisheries to improve their socio-economic conditions.
11. It was decided by the committee to nominate Dr. Shivakumar Radde, Principal, AHP, Shiggaon as the Nodal Officer to establish Centers of Excellence both at Shiggaon and Konehalli.
12. It was also decided to provide a new vehicle (Bolero) to the Nodal Officer, Centers of Excellence to execute the project.



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IV. PUBLICATIONS

1. Research Papers

i) International Publications

a) In Journals

#	<i>Authors, Year of publication, Title of the paper and Journal</i>
VETERINARY COLLEGE, HEBBAL, BENGALURU	
1	Sunilkumar Patil, Jamuna, K.V., Lakshminarayana Somashekhar, Sellappan Selvaraju, Prasad, R.V. and Binsila, B. Krishnan, 2017. Cytolocalisation of PDC-109 Protein in Ejaculated Spermatozoa of Buffaloe (<i>Bubalus bubalis</i>). <i>International Journal of Pure and Applied Bioscience</i> (Accepted for publication).
2	Yathish, H.M., Subodh Kumar, Prem, P. Dubey, Rajendra, P. Modi, Rajni Chaudhary, Sivakumar, A., Subrata, K. Ghosh, Mihir Sarkar and Sivamani, B., 2017. Profiling of sperm gene transcripts in crossbred (<i>Bos taurus</i> x <i>Bos indicus</i>) bulls. <i>Anim. Reprod. Sci.</i> , 177:25-34.
3	Sivakumar, A., Subodh Kumar, Yathish, H.M., Chinmoy Mishra, Rajendra Prasad Modi, Rajni Chaudhary, Subuhi Khan, Sivamani, B., Ghosh, S.K. and Mihir Sarkar, 2018. Expression Profiling and Identification of Novel SNPs in CatSper2 Gene and Their Influence on Sperm Motility Parameters in Bovines. <i>Anim. Biotechnol.</i> , 29(1):34-40.
4	Sangamesh, Appanna var, M.M., Yathish, H.M., Vaishali Hiremath, Shrikant Kulkarni, Ramachandra, B. and Suranagi, M.D., 2017. Variation in Growth hormone gene and its Association with Growth traits in Osmanabadi goat. <i>Ruminant Science</i> , 6(1):79-83.
5	Chinmoy Mishra, Subodh Kumar, Manjit Panigrahi, Yathish, H.M., Rajni Chaudhary, Anuj Chauhan, Amit Kumar and Arvind, A. Sonawane, 2018. Single Nucleotide Polymorphisms in 5' Upstream Region of Bovine TLR4 Gene Affecting Expression Profile and Transcription Factor Binding Sites. <i>Anim. Biotechnol.</i> , 29(2):119-128.
6	Vidya, M.K., Girish Kumar, V., Madiajagan Bagath, Govindan Krishnan, Veeranna, R.K., Sunil Kumar, K.K., Veerasamy Sejian and Raghavendra Bhatta, 2017. Adipose tissue significance with special emphasis on its role in regulating immune functions in mammals. <i>International Research Journal of Chemistry</i> , 1(3):25-40.
7	Vidya, M.K., Girish Kumar, V., Veerasamy Sejian, Madiajagan Bagath, Govindan Krishnan and Raghavendra Bhatta, 2017. Toll-like receptors: Significance, ligands, signaling pathways, and functions in mammals: review. <i>International Reviews of Immunology</i> , 1(1):1-17.
8	Farman, M., Tripathi, S.K., Nandi, S., Gupta, P.S.P., Mondal, S. and Girish Kumar, V., 2017. Gene expression in ovine preantral follicles, oocytes and embryos produced <i>in vivo</i> and <i>in vitro</i> under metabolic stress. <i>International Journal of Advanced Life Sciences</i> , 10(3):290-296.
9	Pavan Belakeri, Kotresh Prasad, C., Shankarappa Bhajantri, Mahantesh, M.T., Maruti, S.T. and Rudresh, G.N., 2017. Trends of Mobile applications in Farming. <i>International Journal of Current Microbiology and Applied Science</i> , 6(7):2499-2512.
10	Basavarajaiah, D.M., Narasimhamurthy, H.N., Prasanna, S.B., Nagaraju, Y. and Kumar Wadeyar, 2018. Sensor fusion for normally distributed noise estimation by Snapshots techniques using foot and mouth diseasesmassive data sets in Karnataka state. <i>Int. J. of Agr. Sci., and Res.</i> , (IJASR) ISSN (P):2250-0057; ISSN (E): 2321-0087, 8(2):121-130.
11	Abdul Mateen, K.W., Uday Kumar, Mahadevappa, D. Gouri, Anil Kumar, G.K., Narasimhamurthy, H.N. and Rajeshwari, Y.B., 2017. Ethogram in bannur sheep under farm condition. <i>International Journal of Current Research</i> , 9(3):47704-47708.



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KARNAKA
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12	Uday Kumar, Narasimha Murthy, H.N., Chandrapal Singh, K., Mahadevappa D. Gouri, Rajeshwari, Y.B., Siddeshwara, N.C., Abdul Mateen and Guruprasad, R., 2017. Biomass yield and chemical composition of sesbania grandiflora and moringa oleifera. <i>International Journal of Science, Environment and Technology</i> , 6(6):3264-3269.
13	Ajith, K.S., Arpitha, R., Madhura, Y., Prabhu, T.M., Gloridoss, R.G., Narasimhamurthy, H.N. and Chandrapal Singh, K., 2017. Effect of feeding Spineless Cactus (<i>Opuntia ficus indica</i>) on intake, digestibility and growth performance in lambs. <i>Int. J. of Livestock Res.</i> , 12:101-110.
14	Ajith, K.S., Arpitha, R., Madhura, Y., Prabhu, T.M., Gloridoss, R.G., Narasimhamurthy, H.N. and Chandrapal Singh, K., 2017. Evaluation of Spineless Cactus (<i>Opuntia ficus indica</i>) as energy supplement in diets based on finger millet straw and Maize grain by in vitro technique. <i>Int. J. of Innovative Research in Science, Engineering and Technology</i> , 6(6): 10976-10982.
15	Vinayananda, C.O., Nadeem Fairoze, Madhavaprasad, C.B., Byregowda, S.M., Nagaraj, C.S., Prashanth Bagalkot and Nagappa Karabasanavar, 2017. Studies on occurrence, characterization and decontamination of emerging pathogenic Escherichia Coli (STEC, ETEC and EIEC) in table eggs. <i>British Poultry Science</i> , 1-9.
16	Archanaa, P.R., Sejian, V., Wilfred Ruban, Bagatha, M., Krishnana, G., Aleenaa, J., Manjunathareddy, G.B., Beena, V. and Raghavendra Bhatta, 2018. Comparative assessment of heat stress induced changes in carcass traits, plasma leptin profile and skeletal muscle myostatin and HSP70 gene expression patterns between indigenous Osmanabadi and Salem Black goat breeds. <i>Meat Science</i> , 141:66-80.
17	Wilfred Ruban, S., Narendra Babu, R.m Robinson Abraham, J.J., Senthilkumar, T.M.A., Kumraswamy, P. and Appa Rao, V., 2018. Prevalence of Methicillin resistant <i>Staphylococcus aureus</i> in retail buffalo meat in Chennai, India. <i>Buffalo Bulletin</i> , 37(1):51-58.
18	Wilfred Ruban, S., Narendra Babu, R., Abraham Robinson, J.J., Appa Rao, V., Porteen, K. and Raja, P., 2017. Coagulase gene Polymorphism in <i>Staphylococcus aureus</i> isolated from Chicken and Pork marketed in retail outlets of Chennai. <i>International Journal of Livestock Research</i> , 7(6):192-197.
19	Wilfred Ruban, S., Raja, P., Nithya Quintiol, Govind Vemala and Porteen, K., 2017. Multiplex PCR for Detection of Genes Encoding Antibiotic Resistance in <i>Staphylococcus aureus</i> . <i>Int.J.Curr.Microbiol.App.Sci.</i> , 6(5):1052-1056.
20	Wilfred Ruban, S., Narendra Babu, R., Robinson Abraham, J.J., Senthilkumar, T.M.A., Kumraswamy, P., Appa Rao, V. and Porteen, K., 2017. Prevalence of Panton Valentine Leukocidin (pvl) Gene in Methicillin Resistant <i>Staphylococcus aureus</i> Isolated from Market Samples of Chicken Meat. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 6(4):2459-2466.
21	Kamal Hasan, Rathnamma, D., Narayanaswamy, H.D., Malathi, V., Saurabh Gupta and Singh, S.V., 2017. Isolation of bacterial pathogens associated with broiler mortality in Kolar. <i>Advances in Animal and Veterinary Sciences</i> , 5(7):312-315.
22	Livi Wilson, Reddy, H.R.V., Gangadhara Gowda, Prabhudeva, K.N., Shrikrishna Isloor, Shridhar, N.B., Sanal Ebeneezar, Chethan, N., Padmanabha, A. and Muttappa, K., 2017. Assessment of Heavy Metal Residues in Water, Sediment and Fish Tissues From Hebbal Lake, Bengaluru-India. <i>Global Journal For Research Analysis</i> , 5(9) (online).
23	Shoaib Ahmad Shakhes, Rathnamma, D., Shrikrishna Isloor and Noor Ali Mohmand, 2017. Evaluation of cell mediated immune response in bovine mastitis causing <i>Staphylococcus aureus</i> biofilm vaccine. <i>IOSR Journal of Agriculture and Veterinary Science</i> , 10(10):52-56.



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24	Santosh, A.K., Isloor, S., Rathnamma, D., Sharada, R., Sunilkumar, K.M., Balamurugan, V., Yathiraj, S. and Satyanarayana, M.L., 2017. Assessment of humoral immune response in vaccinated domestic dogs and cats intended for pet-travel from India by Rapid Fluorescent Focus Inhibition Test (RFFIT). <i>Journal of Experimental Biology and Agricultural Sciences</i> , 5(5):606-613.
25	Karen, L. Mansfield, Ashley, C. Banyard, Anthony, R. Fooks, Richard Franka, Shrikrishna Isloor and Abdul Rahman, 2017. Supporting rabies control in India. <i>Veterinary Record</i> . 179(12) (http://dx.doi.org/10.1136/vr.i4687).
26	Srinivasa Babu, T., Rathnamma, D., Isloor, S., Chandranaiik, B.M., Veeragowda, B.M. and Manjunath Reddy, G.B., 2018. Diagnosis of Orf virus infection in sheep and goats by virus isolation, Polymerase Chain Reaction and Sequencing. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 6(1):176-187.
27	Nithin Prabhu, K., Shrikrishna Isloor, Veeresh, B.H., Rathnamma, D., Sharada, R., Lekshmi, J. Das, Satyanarayana, M.L., Nagendra, R. Hegde and Abdul Rahman, S., 2018. Application and Comparative Evaluation of Fluorescent Antibody, Immunohistochemistry and Reverse Transcription Polymerase Chain Reaction Tests for the detection of Rabies virus antigen or nucleic acid in brain samples of animals suspected of Rabies in India. <i>Vety. Sci.</i> , 5(24):1-12.
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12	Chandra Mohan, T., Gangadhara Gowda, Sheethal, K.U., Harsha Nayak and Shruthishree, C., 2018. Physiological changes in Nickel exposed Nile tilapia (<i>Oriochromis niloticus</i>) during exposure and recovery period. <i>J.Env. Bio.</i> , (Accepted for publication), MRN-882.
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1	Abdul Mateen, K.W., Vivek, M. Patil, Rajeshwari, Y.B., Uday Kumar, Siddeswara, N.C., Raghuveer, D.M., Guruprasad, R. and Supriya, S., 2017. A study on management practices followed by horse cart (jatka) owners in Karnataka. <i>Int. J. Current Adv. Res.</i> , 6(8):5493-5495.
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- 1 Manjappa, N., Ravindragouda Patil and Prakash Pavadi, 2017. Potential uses of Village tanks and farm ponds for aquaculture in Karnataka, India- A case study. *International Journal of Research in Applied, Natural and Social Sciences*, 5(10):45-50.

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2	Ramesha, C.B., Rathnamma, D., Narayanaswamy, H.D., Isloor. S., Veeregowda, B.M., Narayana Bhat, M., Mukartal, S.Y., Manjunath, S.S., Siddalingamurthy, H.K., Pannaga, P. and Sresujatha, R.M., 2017. Evaluation of inactivated <i>Mycobacterium avium</i> subspecies paratuberculosis vaccine in experimentally challenges Mandya breed of sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary pathologists, VIII Biennial meetings of Asian Society of Veterinary Pathology and VIII Annual meeting of Indian College of Veterinary Pathologists, <i>Pp52</i> .
3	Mukartal, S.Y., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Chandra Naik. B.M., Ramesha, C.B., Manjunath, S.S., Srikanth, M., Siddalingamurthy, H.K. and Santhosh, A.K., 2017. Development of Loop mediated isothermal amplification (LAMP) assay for detection of <i>Mycobacterium avium</i> subspecies paratuberculosis infection in animals. Asian Veterinary Pathology Congress-2017. XXXIV Annual conference of Indian Association of Veterinary pathologists, VIII Biennial meetings of Asian Society of Veterinary Pathology and VIII Annual meeting of Indian College of Veterinary Pathologists, <i>Pp115</i> .
4	Mukartal, S.Y., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Chandranaik, B.M., Manjunath, S.S., Srikanth, M., Ramesha, C.B., Siddalingamurthy, H.K. and Santhosh, A.K., 2017. Isolation and molecular characterization of <i>Mycobacterium avium</i> subspecies paratuberculosis from ruminants in Karnataka. Asian Veterinary Pathology Congress-2017. XXXIV Annual conference of Indian Association of Veterinary pathologists, VIII Biennial meetings of Asian Society of Veterinary Pathology and VIII Annual meeting of Indian College of Veterinary Pathologists, <i>Pp93</i> .
5	Savitha, J.V., Satyanarayana, M.L., Suguna Rao, Hemanth, I., Byre Gowda, T.R. and Prashanth, A.G., 2017. A case of primary disseminated bronchioloalveolar papillary adenocarcinoma with mediastinal lymphnode metastasis. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp313</i> .



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6	Savitha, J.V., Satyanarayana, M.L., Suguna Rao, Hemanth, I. and Shashidhar Ballari, 2017. A study on occurrence of pulmonary disorders in dogs. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp312</i> .
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8	Manjunath Mayachari, S., Sathyaranayana, M.L., Suguna Rao, Chandranaik, B.M., Byregowda, S.M., Venkatesha, M.D., Jeevan, K., Mohamed Ghose, H. and Netra, K. Gowda, 2017. An outbreak of porcine reproductive and respiratory syndrome (PRRS) in Karnataka. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp490</i> .
9	Savitha, J.V., Satyanarayana, M.L., Suguna Rao and Hemanth, I., 2017. Associated pulmonary lesions in canine distemper infection: Post-mortem study. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp314</i> .
10	Kavitha Rani, B., Suguna Rao, Purushothama, K.M., Byregowda, S.M., Munivenkatappa, S., Sathyaranayana, M.L., Narayanaswamy, H.D., Shridhar, N.B. and Ansar Kamran, 2017. Behaviour of insulin, insulin receptors and GLUT-4 in STZ diabetic rats—An experimental study on molecular expression in target organs. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp122</i> .
11	Anjan Kumar, K.R., Yathish Gowda, C., Jeevan, K., Manjunath Mayachari, S., Suguna Rao, Narayanaswamy, H.D. and Satyanarayana, M.L., 2017. Blood smear evaluation: An ancillary informative diagnostic technique. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp482</i> .
12	Kavya, N., Suguna Rao, Sathyaranayana, M.L., Narayanaswamy, H.D., Ranganath, L., Ansar Kamaran, Purushotham and Kishore, T.K., 2017. Canine cutaneous and subcutaneous tumours: Occurrence and histopathology. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp417</i> .



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13	Kavya, N., Suguna Rao, Sathyanarayana, M.L., Purushotham, Kishore, T.K., Vijayakumar, N., Byregowda, T.R. and Syeda Sumaiya, 2017. Canine spontaneous cutaneous squamous cell carcinoma: A case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp489</i> .
14	Savitha, J.V., Suguna Rao, Sathyanarayana, M.L., Hemanth, I. and Byregowda, T.R., 2017. Chemodectoma in a non-descript Dog: An incidental finding in post-mortem. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp311</i> .
15	Harshitha, C.R., Sathyanarayana, M.L., Suguna Rao, Hemanth, I. and Raghavendra, L.Y., 2017. Co-existing insulinoma and exocrine pancreatic adenoma in a dog- a case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp300</i> .
16	Srikanth, M., Narayanaswamy, H.D., Suguna Rao, Sathyanarayana, M.L., Rathnamma Doddamane, Manjunatha, S.S. and Siddalinga Murthy, H.K., 2017. Concurrent infection of Paratuberculosis (Johne's disease) and parasitic infestation in Mandya sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp70</i> .
17	Netra, K. Gowda, Suguna Rao, Sathyanarayana, M.L., Manjunath Mayachari, S., Jeevan, K., Mohamed Ghouse and Narayanaswamy, H.D., 2017. Cytological diagnosis on various clinical samples for a period of five years. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp483</i> .
18	Kishor, T.K., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D., Byregowda, S.M., Nagaraja, B.N., Purushotham, K.M. and Kavya, N., 2017. Diagnostic value of survivin in spontaneous canine and induced rat mammary gland tumors. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp333</i> .
19	Manjunatha, S.S., Sathyanarayana, M.L., Narayanaswamy, H.D., Suguna Rao, Rathnamma Doddamane and Shridhar, N.B., 2017. Effect of aqueous extracts of <i>Murraya koenigii</i> and <i>Aloe vera</i> on serum insulin and antioxidant levels in streptozotocin-induced diabetic rats. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp386</i> .



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20	Akshata, S. Angadi, Narayanaswamy, H.D., Satyanarayana, M.L., Rathnamma, D., Sridhar N.B. and Suryanarayana, T., 2017. Experimental pathology of aflatoxicosis and Mycoplasmal infection in broiler chicken. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp385</i> .
21	Akshata, S. Angadi, Narayanaswamy, H.D., Satyanarayana, M.L., Suryanarayana, T., Sridhar, N.B. and Rathnamma, D., 2017. Experimental study of performance and serum biochemistry of broiler chicken in experimental induction of Aflatoxicosis and Mycoplasmosis. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp372</i> .
22	Kishor, T.K., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D., Byregowda, S.M., Nagaraja, B.N., Purushotham, K.M. and Kavya, N., 2017. Expression of Ki 67 and survivin in canine mammary gland tumours and their prognostic value. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp428</i> .
23	Kavitha Rani, B., Suguna Rao, Satyanarayana, M.L., Narayanaswamy, H.D., Purushothama, K.M. and Shridhar, N.B., 2017. Gymnema sylvestre enhances the expression of insulin receptors in insulin target organs in Stz diabetic rat model: An immunohistopathological and qrt-PCR study. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp370</i> .
24	Dilip Kumar, D.N., Narayanaswamy, H.D., Suguna Rao, Jagadeesh, S. Sanganal and Jamuna, K.V., 2017. Haematological aspects of renal failure in canines. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp481</i> .
25	Srikanth, M., Narayanaswamy, H.D., Sathyanarayana, M.L., Suguna Rao, Rathnamma Doddamane, Manjunatha, S.S., Vijaya Kumar, N. and Prashanth, A.G., 2017. Hematological and serum biochemical alterations in Paratuberculosis affected sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp466</i> .
26	Syeda Sumaiya, Suguna Rao, Satyanarayana, M.L., Byregowda, S.M., Chandranaiik, Mohammed Junaid Ali, Srikanth, M., Prashanth, A.G. and Shashidhar Ballari, 2017. Histopathological variations in contagious ecthyma lesions in sheep and goat. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp94</i> .





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27	Yathish Gowda, C., Narayanaswamy, H.D., Suguna Rao, Anjan Kumar, Harshitha, C.R., Raghvendra, Y.L. and Ghouse, M., 2017. IBD and ND in layer birds – A case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp269</i> .
28	Anjan Kumar K.R., Yathish Gowda, C., Jeevan, K., Manjunath, S. Mayachari, Suguna Rao, Narayanaswamy, H.D. and Satyanarayana, M.L., 2017. Incidence and histopathological study of tumours of dogs in Bengaluru. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp448</i> .
29	Syeda Sumaiya, Suguna Rao, Satyanarayana, M.L., Byregowda, S.M., Chandranaiik, Mohammed Junaid Ali, Vijay Kumar and Kavya, N., 2017. Incidence of Orf viral infection in domestic small ruminants in Karnataka. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp94</i> .
30	Savitha, J.V., Satyanarayana, M.L., Suguna Rao and Hemanth, I., 2017. Metastatic pulmonary calcification in a dog. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp314</i> .
31	Jeevan, K., Suguna Rao, Sathyanarayana, M.L., Mohamed Ghose, H., Manjunath Mayachari, S., Netra, K. Gowda and Yathish Gowda, C., 2017. Occurrence of multicentric lymphoblastic lymphoma in a Labrador Retriever dog: A case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp302</i> .
32	Byre Gowda, T.R., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D. and Puttalakshmamma, G.C., 2017. Occurrence of parasitic infections in freshwater fish in and around Bengaluru. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp166</i> .
33	Akshata, S.A., Sathyanarayana, M.L., Shashidhar Ballari, Jeevan, K., Prashant, A.G. and Hemanth, I., 2017. Occurrence of systemic invasive aspergillosis in a poultry farm. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp489</i> .



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34	Manjunatha, S.S., Sathyanarayana, M.L., Narayanaswamy, H.D., Suguna Rao, Rathnamma Doddamane and Shridhar, N.B., 2017. Pancreatic beta cells neogenesis in streptozotocin induced diabetes in <i>Murraya koenigii</i> and <i>Aloe vera</i> treated rats. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp384</i> .
35	Dilip Kumar, D.N., Narayanaswamy, H.D., Suguna Rao, Jagadeesh, S. Sanganal and Jamuna, K.V., 2017. Pathological changes during renal failure in Dogs. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp316</i> .
36	Raghavendra, L.Y., Narayanaswamy, H.D., Satyanaryana, M.L., Suguna Rao, Jamuna, K.V., Veeragowda, B.M. and Harshitha, C.R., 2017. Pathology of lung disorders in sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp73</i> .
37	Harshitha, C.R., Sathyanaryana, M.L., Hemanth, I., Shashidhar Ballari, Prashanth, A.G. and Raghavendra, L.Y., 2017. Pathology of pancreas in dogs. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp292</i> .
38	Vijaya Kumar, N., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D. and Shridhar, N.B., 2017. Pathomorphological and biochemical evaluation of methotrexate induced hepatotoxicity and its amelioration by <i>Eugenia jambolana</i> in rats. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp377</i> .
39	Akshata, S. Angadi, Narayanaswamy, H.D., Satyanarayana, M.L., Suryanarayana, T., Sridhar, N.B. and Rathnamma, D., 2017. Pathomorphological and histopathological changes in different organs during individual and combined effect of Aflatoxicosis and Mycoplasmosis In broilers chicken. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp382</i> .
40	Sarvesha, K., Satyanarayana, M.L., Narayanaswamy, H.D., Suguna Rao, Yathiraj, S. and Isloor, S., 2017. Pathomorphological and molecular studies in Bovine mastitis. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp322</i> .



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41	Byre Gowda, T.R., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D., Kavya, N., Shwetha, H.S., Manjunatha Reddy, G.B., Blamurugan, V. and Jeevan, K., 2017. Per acute leptospirosis in German shepherd dog- A case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp491</i> .
42	Dilip Kumar, D.N., Narayanaswamy, H.D., Suguna Rao, Jagadeesh, S. Sanganal and Jamuna, K.V., 2017. Prevalence of renal failure in dogs. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp315</i> .
43	Kavya, N., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D., Ranganath, L., Ansar Kamaran, Purushotham and Kishore, T.K., 2017. Proliferation and antiapoptotic markers as prognostic indicators in canine spontaneous cutaneous epithelial tumours. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp334</i> .
44	Vijaya Kumar, N., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D., Shridhar, N.B. and Srikanth, M., 2017. Protective effects of Eugenia jambolana against methotrexate induced oxidative damage in rat liver. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp383</i> .
45	Srikanth, M. and Narayanaswamy, H.D., 2017. Studies on clinico-pathology and molecular diagnosis of Paratuberculosis in sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp323</i> .
46	Manjunatha, S.S., Sathyanarayana, M.L., Narayanaswamy, H.D., Suguna Rao, Shridhar, N.B., Rathnamma Doddaman, Mukartal, S.Y., Srikanth, M. and Kavitha Rani, B., 2017. Studies on evaluation of anti-diabetic efficacy of aqueous extract of <i>Murraya koenigii</i> in Streptozotocin induced diabetic rats. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp380</i> .



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47	Manjunatha, S.S., Sathyanarayana, M.L., Narayanaswamy, H.D., Suguna Rao, Rathnamma Doddamane, Shridhar, N.B., Kavitha Rani, B., Mukartal, S.Y. and Srikanth, M., 2017. Studies on evaluation of hypoglycemic effect of aqueous extract of Aloe vera in Streptozotocin induced diabetic Rats. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp374</i> .
48	Byre Gowda, T.R., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D. and Puttalakshmamma, G.C., 2017. Study on occurrence of fish diseases in freshwater fish in and around Bengaluru. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp330</i> .
49	Kavya, N., Suguna Rao, Sathyanarayana, M.L., Narayanaswamy, H.D., Ranganath, L., Ansar Kamaran, Purushotham and Kishore, T.K., 2017. Survivin expression in canine cutaneous mast cell tumour and its prognostic significance. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp435</i> .
50	Syeda Sumaiya, Suguna Rao, Satyanarayana, M.L., Byregowda, S.M., Chandranaik, Shankar, B.P. and Leena, G., 2017. Systemic infection in contagious ecthyma in sheep and goats. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp331</i> .
51	Prashanth, A.G., Shashidhar Ballari, Hemanth, I., Suguna Rao, Harshitha, C.R., Savitha, J.V., Narayanaswamy, H.D. and Satyanarayana, M.L., 2017. Toxoplasmosis in dog - A case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp317</i> .
52	Yathish Gowda, C., Shivkumar, E., Suguna Rao, Anjan Kumar, Jeevan, K., Nethra, K. Gowda and Manjunath, S. Mayachari, 2017. Transition of papilloma to squamous cell carcinoma in a teat of cow. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp443</i> .
53	Srikanth, M., Narayanaswamy, H.D., Sathyanarayana, M.L., Suguna Rao, Manjunatha, S.S., Vijaya Kumar, N. and Sarvesha, K., 2017. Ultrastructural studies on Paratuberculosis (Johne's disease) in sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp75</i> .



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54	Manjunatha, K.P., Suguna Rao, Hemanth, I., Manjunath Mayachari, S., Jeevan, K., Satyanarayana, M.L. and Narayanaswamy, H.D., 2017. Unilateral pleural epithelioid mesothelioma: a case report. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp488</i> .
55	Ramesha, C.B., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Veeregowda, B.M., Narayana Bhat, M., Mukortal, S.Y., Manjunath, S.S., Siddalingamurthy, H.K., Pannaga, P. and Sreesujatha, R.M., 2017. Evaluation of inactivated <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> vaccine in experimentally challenged Mandya breed of sheep. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp52</i> .
56	Mukortal, S.Y., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Chandranaik, B.M., Manjunatha, S.S., Srikanth, M., Ramesha, C.B., Siddalingamurthy, H.K. and Santhosh, A.K., 2017. Isolation and molecular characterization of <i>Mycobacterium avium</i> subspp. <i>Paratuberculosis</i> from ruminants in Karnataka. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp93</i> .
57	Mukortal, S.Y., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Chandranaik, B.M., Ramesha, C.B., Manjunatha, S.S., Srikanth, M., Siddalingamurthy, H.K. and Santhosh, A.K., 2017. Development of loop-mediated isothermal amplification (LAMP) assay for detection of <i>Mycobacterium avium</i> subspp <i>paratuberculosis</i> infection in animals. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp115</i> .
58	Satish Mundas, Suguna Rao, Sharangouda Patil, Satyanarayana, M.L. and Shivashanrappa Yalagod, 2017. Quantification of cytokines by real time PCR for its role in Rabies virus infected mice. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp108</i> .
59	Satish Mundas, Suguna Rao, Sharangouda Patil, Satyanarayana, M.L. and Shivashanrappa Yalagod, 2017. dRIT- Current and emerging diagnostic technique in the diagnosis of Rabies. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp125</i> .



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60	Dilip Kumar, D.N., Suguna Rao, Amith, N.G. and Rakesh, V., 2017. Rhinosporidiosis in urinary tract of a Dog. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp317</i> .
61	Dilip Kumar, D.N., Suguna Rao, Amith, N.G., Amulya, V.R. and Nitish Kallianpur, 2017. A case study on haemangiopericytoma in a female dog. Asian Veterinary Pathology Congress-2017. XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Biennial Meeting of Asian Society of Veterinary Pathology, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Conference from 9-11 November 2017 held at Bengaluru, Karnataka, <i>Pp447</i> .
VETERINARY COLLEGE, BIDAR	
1	Ravindra, D., Tyagi, A.K. and Kathirvelan, C., 2018. <i>In vitro</i> analysis of effect of supplementation of different oils on CLA production by <i>Butyribrio fibrisolvense</i> . WASET, Bangkok, Thailand, on 18 th -19 th January, 2018, <i>Pp7</i> .
2	Kiran, M., <i>et al.</i> , 2017. Investigation of proteomic changes and quality of sheep (<i>Ovis aries</i>) meat due to electrical stunning. LXIII International congress on Meat Sci Tech., Cork, Ireland, on 13 th -18 th Aug., 2017, <i>Pp808-810</i> .
3	Adeppa, J., Samanta, S. and Raina, O.K., 2018. Molecular characterisation and expression of Glutathione S-Transferrase (GST) of <i>Fasciola gigantica</i> . XX ICVSMP, Bangkok, Thailand, 18 th -19 th January, 2018, <i>Pp1030</i> .
4	Arun Kharate, Sarata Kumar Sahu, Susen Kumar Panda, Niranjan Sahoo and Panda, H.K., 2018. Prevalence, isolation and identification of feline panleukopaenia virus form wild felids in Nandankanan Zoo, Odisha. XX ICVSMP, Bangkok, Thailand, 18 th -19 th January, 2018, <i>Pp903</i> .
5	Prashanthkumar Waghe, Praksha, N., Prasada, N.D., Lokesh, L.V., Vijay Kumar, M. and Vinay Tikare, P., 2018. Subacute sodium (Meta) arsenite exposure through drinking water reduces, therapeutic efficacy of meloxicam in male wister rat. XX International conference on <i>Vet. Pharmacol Toxicol.</i> , Bangkok, Thailand, 18 th -19 th Jan., 2018, <i>Pp901</i> .
6	Dilipkumar, D., Venkatgiri, Usturge, S.M., Shivaprakash, B.V., Sagar, P., Bhagvantappa, B., Jahangirbasha, D. and Arun, T., 2018. Surgical repair of various conditions under butorphanol-romifidine with ketamine induction and isoflourane anesthesia in cattle and buffalo. XX International conference <i>Vet. Anesth</i> , Kaulalampur, Malaysia, 12 th -13 th Feb., 2018, <i>Pp263</i> .
7	Venkatgiri, Rangnath, L., Nagraj, B.N., Sagar, P., Usturge, S.M., Dilipkumar, D., Shivaprakash, B.V., Bhagvantappa, B. and Jahangirbasha, D., 2018. Comparative evaluation of pentazocine and tramadol as preemptive analgesics for ovariohysterectomy in female dogs. XX International conference <i>Vet. Anesth.</i> , Kaulalampur, Malaysia, 12-13 th Feb., 2018, <i>Pp694</i> .
8	Jahangirbasha, D., Dilipkumar, D., Shivaprakash, B.V., Bhagvantappa, B. and Usturge, S.M., 2018. Evaluation of SOP plate for long bone diaphyseal fractures in dogs. International congress on canine practice. XV Annual convention of ISCAP on emerging issues and innovative techniques and comprehensive overview of research developments in canine practice. NTR College of Veterinary Science, Gannavaram, SVVU-A.P., 7 th -9 th Feb., 2018, <i>Pp237</i> .



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VETERINARY COLLEGE, SHIVAMOGGA

1	Lakshmisree, K.T., Triveni, T., Dhoolla, M., Sharanabasav, V.G. and Shibu Chameettachal, 2017. Synthesis of nano-hydroxyappetite (nHA) from waste poltry egg shells using a rapid microwave method for hard tissue engineering. IX th Bengaluru INDIA NANO, International conference at Bengaluru 7-8 th Dec., 2017, Pp28.
2	Dhoolla, M., Prasad, R.V., Sundareshan, S., Shivaprakash, B.V. and Falguni Pati, 2017. A Novel Approach for Developing NanoBioINK for 3D BioPrinting for Bone for Orthopaedic Applicationsa step towards integration of 3D Printing and Nanotechnology. IX th Bengaluru INDIA NANO, International Conference at Bengaluru 7-8 th Dec., 2017, Pp28.
3	Ananda, K.J. and Placid Eugin D'Souza, 2017. Proteins of <i>Echinococcus granulosus</i> of dogs as diagnostic antigens in Immunoreactive Enzyme Immuno-transfer Blot (EITB) Assay. 26 th International Conference of the World Association for the Advancement of Veterinary Parasitology at Kuala Lumpur, Malaysia, Abstract No. 4092, Pp235.
4	Ananda, K.J. and Kavitha Rani, B., 2017. <i>Taenia taeniformis</i> and <i>Spirometra mansonioides</i> infection in a Wild Royal Bengal Tiger (<i>Panthera tigris tigris</i>). 26 th International Conference of the World Association for the Advancement of Veterinary Parasitology at Kuala Lumpur, Malaysia, Pp530.

VETERINARY COLLEGE, HASSAN

1	Girish, B.C., Ambujakshi, T.C., Shilpa, V.T., Manjunatha, K.P. and Jayaramu, G.M., 2017. Pathology of Pimply Gut (Oesophagostomiasis) in Sirohi Goats. International Conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, Pp77.
2	Girish, B.C., Shilpa, V.T., Dharanesh, C.D. and Manjunatha, K.P., 2017. Pathological findings in an elephant died of accidental electrocution. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, Pp148.
3	Girish, B.C., Shilpa, V.T., Manjunatha, K.P., Muralidhara, H.T. and Narayanaswamy, H.D., 2017. A Retrospective Study of Post Mortem Findings in Wild /Captive Felines. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, Pp145.
4	Girish, B.C., Shilpa, V.T., Manjunatha, K.P., Prashanth, A.G., Roopa Devi, Y.S. and Shivakumar, M.C., 2017. Pathology of Epitheliogenesis Imperfecta – An Inherited Disorder of Piglets. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, Pp54.
5	Manjunath, K.P., Shilpa, V.T., Roopadevi, Y.S., Ravikumar, P., Girish, B.C. and Chandrashekhar, K.M., 2017. Pullorum disease outbreak in young chicks. AVPC 2017. Veterinary College, 9-11 th Nov., 2017, Bengaluru, Pp251.
6	Manjunatha, K.P., Ravikumar, P., Shilpa, V.T., Roopadevi, Y.S., Girish, B.C. and Ramesha, C.B., 2017. An Outbreak of Infectious Bursal Disease in Local birds. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Pp263.



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7	Manjunatha, K.P., Roopa Devi, Y.S., Shilpa, V.T., Ravikumar, P., Girish, B.C. and Ravikumar, C., 2017. Zinc Phosphide Toxicity in a German Shepherd Dog. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, <i>Pp294</i> .
8	Manjunatha, K.P., Shilpa, V.T., Roopadevi, Y.S., Ravikumar, P., Girish B.C. and Chandrashekhar, K.M., 2017. Pullorum disease outbreak in young chicks. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, <i>Pp251</i> .
9	Nasreen, A., Arun, S.P., Srilatha, Girish, B.C. and Ramu, V., 2017. Studies on juvenile leptospirosis in White Tiger (<i>Panthera tigris</i>) cubs. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, <i>Pp147</i> .
10	Roopadevi, Y.S., Shilpa, V.T., Manjunatha, K.P., Ravikumar, P. and Girish, B.C., 2017. Hepatogenous Photosensitization in a Sheep. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, <i>Pp78</i> .
11	Shilpa, V.T., Roopadevi, Y.S., Girish, B.C., Manjunatha, K.P. and Ravikumar, P., 2017. <i>Acacia leucophala</i> Poisoning in Sheep – A Report. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, <i>Pp390</i> .
12	Shilpa, V.T., Roopadevi, Y.S., Girish, B.C., Manjunatha, K.P. and Ravikumar, P., 2017. <i>Acacia leucophala</i> Poisoning in Sheep – A Report. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th November 2017, Bengaluru, <i>Pp294</i> .
13	Sujatha, K., Girish, B.C., Sirlatha, R.V., Ramanamurthy, Amaravathi, Yugandhar, Vanisankar, P., Gayathri and Aftab, 2017. Pathomorphological and bacteriological study of colibacillosis infection in ducklings. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, 9-11 th Nov., 2017, Bengaluru, <i>Pp261</i> .
14	Vanishankar, P., Srilatha, C.H., Sujatha, K. and Girish, B.C., 2017. Vegetative endocarditis in Large White Yorkshire. International conference on Emerging Horizons in Diagnosis of Animal and Poultry Disease – Towards Sustainable Production in Asian Countries. AVPC, Bengaluru, 9-11 th Nov., 2017, Bengaluru, <i>Pp89</i> .
DAIRY SCIENCE COLLEGE, KALBURGI	
1	Devaraju, R., Kalla, M., Adarsh and Praveen, A.R., 2017. The IRES 63 rd International conference, Bangkok, Thailand, March 5-6, 2017, <i>Pp20-24</i> .

ii) National Publications

a) Publications in Journals

#	Year/ Authors / Title of Paper / Journal
VETERINARY COLLEGE, BENGALURU	
1	Vinodkumar, D., Rahila Gulzar, Selvaraju, S., Nazar, S., Parthipan, S., Jamuna, K.V., Prasad, R.V. and Ravindra, J.P., 2017. Expression pattern of BMPR-2 and Fas and the regulatory role of BMP-2 and IGF-1 on ranulose cells function in buffalo. <i>Indian Journal of Animal Sciences</i> , 87(1):45-48.



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2	Triveni, T., Ashok Pawar, Girish, M.H. and Dileep Kumar, D., 2017. Comparative histochemical studies of lacrimal gland in Ruminants. <i>Indian J. Anim. Res.</i> , DOI: 10.18805/ijar.B-3412.
3	Ashwini, S., Ashok Pawar, Sathisha, K.B. and Girish, M.H., 2018. Light and Electron Microscopic Study of Lungs in Bidri Goat and Deccani Sheep. <i>Indian Journal of Veterinary Sciences and Biotechnology</i> , 13(3):1-5.
4	Rajni Chaudhary, Subodh Kumar, Yathish, H.M., Sivakumar, A., Chinmoy Mishra, Amit Kumar, Anuj Chauhan, Sivamani, B. and Sahoo, N.R., 2018. Nucleotide variability in Beta 2 Microglobulin (β_2 M) gene and its association with colostral IgG levels in buffaloes (<i>Bubalus bubalis</i>). <i>Indian J Anim Res.</i> , 52(1):51-55.
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VETERINARY COLLEGE, GADAG

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COLLEGE OF FISHERIES, MANGALURU

1	Katare, M.B., Lakra, W.S., Chadha, N.K., Basavaraja, N., Subodh Gupta and Paramita Banerjee Sawant, 2017. Masculinization of dwarf gourami <i>Trichogaster lalius</i> through immersion and dietary treatment of 17 α - methyltestosterone. <i>Indian Journal of Animal Sciences</i> , 87(9):1077-1080.
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15	Gayatri Pandey, Raju, C.V., Jag Pal and Hanuman Prasad Pandey, 2018. Effect of super chilling on the proximate composition of Indian Mackerel (<i>Rastrelliger kanagurta</i>) stored in solar operated refrigerated fish vending unit. <i>Journal of Entomology and Zoology Studies</i> , 6(1):303-306.
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INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU	
1	Manjunathal, V., Rout, M., Giridhar, P., Sujay, C.S., Salian, N., Jaisingh, N., Srivastava, V. and Byregowda, S.M., 2018. Occurrence of Gastrointestinal Parasitic Infectionin Captive Indian Elephants (<i>Elephas maximus indicus</i>) at Bannerghatta Biological Park, Karnataka. <i>Journal of Immunology and Immunopathology</i> , 20(1):38-42.
2	Rashmi, S., Venkatesha, M.D., Sobharani, M., Shivaraj, M., Byregowda, S.M., Sudharani, R., Lohith, T.S., Shankar, B.P. and Chandrashekara, N., 2017. FXI deficiency in breeding bulls. <i>Frontier Journal of Veterinary & Animal Sciences</i> , 6(1):28-60.
LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA	
1	Kavya, P.S., Prabhu, T.M., Gloridoss, R.G., Chandrapal Singh, K., Suresh, B.N. and Siddalingamurthy, H.K., 2017. Nutritional evaluation of spent maize (<i>zea mays</i>) Cobs as roughage source in sheep feeding. <i>Indian Journal of Small Ruminants</i> 2028, 24(1):57-61.
FISHERIES RESEARCH AND INFORMATION CENTER, HESSARAGHATTA	
1	Basavaraju, Y., Manjappa, N., Ravindragouda Patil, Manjunatha Gowda, K.S., Swetha, C. and Priyanka, M. Gowda., 2017. Evaluation of Fish Production in Fish-cum-Poultry Integrated Aquaculture System. <i>Mysore Journal of Agriculture Science</i> , 52(2):436-439.



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

#	Year / Authors / Title of Paper / Conference
VETERINARY COLLEGE, BENGALURU	
1	Sharma, R., Sharma, H., Vij, P.K., Ahlawat, S., Yathish, H.M., Shettar, V.K. and Tantia, M.S., 2017. Genetic uniqueness and Diversity status of Bidri and Nandidurga goat populations of Karnataka. National Seminar on Small Ruminants: National scope on up-scaling production to products value addition and their safety, 9 th - 10 th Nov., 2017, ICAR- Central Institute for Research on Goats (CIRG), Makhdoom, Farah, Mathura, Uttar Pradesh, <i>Pp36</i> .
2	Mahadevappa, D. Gouri, Rajeshwari, Y.B., Supriya, S. and Prasanna, S.B., 2018. Low Cost technologies for enhancement of productivity in LivestockPublished in Abstract in IVEF National Conference on Shaping Livestock Extension Advisory Services for doubling Farmers Income, 29-31 st January 2018, organized by Department of VAHE, Shimoga-577204.
3	Uday Kumar, Mahadevappa, D. Gouri, Rajeshwari, Y.B., Narasimhamurthy, H.N., Supriya, S., Siddeshwara, N.C., Abdul Mateen and Prasanna, S.B., 2018. Biomass yield and Chemical composition of BHN 18 and CO5. Published in Abstract in IVEF National Conference on Shaping Livestock Extension Advisory Services for doubling Farmers Income, 29-31 st January 2018, organized by Department of VAHE, Shimoga-577204.
4	Malasri, G., Chandrashekhar Murthy, V., Sudha, G., Narayanaswamy, M, Kshama, M.A. and Ravindranath, B.M., 2018. Efficacy of Mifepristone and prostaglandin in the treatment of closed cervix pyometra in Dogs. Published in 33 rd Annual Convention and National Symposium on the theme “Use of reproductive technologies and production improvement in livestock species aiming to socio-economic development of rural mass” held by ISSAR, at WB Veterinary Council from 9-11 th February, 2018, Kolkata-700037.
5	Reena Arora, Naveen Kumar, S., Sudarshan, S., Mohammed Nadeem Fairoze, Mandeep Kaur, Sreesujatha, R.M., Sonika Ahlawat and Ramesh Kumar Vij, 2017. Exploring the muscle transcriptome of Bandur sheep using RNA sequencing. National Seminar on Small Ruminants: National scope on up-scaling production to products value addition and their safety, 9 th -10 th Nov., 2017, ICAR- Central Institute for Research on Goats (CIRG), Makhdoom, Farah, Mathura, Uttar Pradesh.
6	Sudharshan, V., Rajeshwari, Y.B., Supriya, S., Naveen Kumar, S., Banuprakash, A.R. and Anup Kumar, P.K., 2017. Influence of Method of Rearing on the Parasitic Load in Mandya Sheep. National symposium on “Livestock Resources Management under Changing Climate Scenario, 17 th to 19 th May, 2017, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shuhama Alusteng, Srinagar, <i>Pp120</i> .
7	Harshitha, B., Jayashankar, M.R., Naveen Kumar, S., Nagaraja, C.S. and Rathnamma, D., 2018. A Molecular study on genetic polymorphism of DGAT 1 gene in Mandya and Hassan breeds of Sheep. National symposium on ‘Sustainable Management of Livestock and Poultry Diversity for enhancing the Farmer’s Income, 8 th to 10 th February, 2018, College of Veterinary & Animal Sciences, Bikaner (Rajasthan), <i>Pp167</i> .
8	Pavan Belakeri, Satyanarayan, K. and Jagadeeswary, V., 2017. Trends of Mobile Applications in Farming. National Conference on Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihood and Resilience to Climate Change by SVFD, PRDIS & PJTSAU, Hyderabad, 22 nd -24 th , April 2017, <i>Pp44</i> .



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9	Jagadeeswary, V., Satyanarayan, K., Pavan Belakeri, Yathiraj, S. and Anand Babu, 2017. Dairy farming mobile App: A smart technology intervention to educate the dairy farmers. National Conference on Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihood and Resilience to Climate Change by SVFD, PRDIS & PJTSAU, Hyderabad, 22 nd – 24 th , April 2017, <i>Pp72</i> .
10	Mutturaj Yadav, E., Kiran, M., Jagadeeswary, V. and Satyanarayan, K., 2017. Sustainable fodder resource management strategies adapting to climate change- Critical Analysis. National Conference on Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihood and Resilience to Climate Change by SVFD, PRDIS & PJTSAU, Hyderabad, 22 nd – 24 th , April 2017, <i>Pp163</i> .
11	Kiran, M., Mutturaj Yadav, E., Jagadeeswary, V. and Satyanarayan, K., 2017. Legume Fodders for Sustainable and Eco-friendly Livestock Production. National Conference on Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihood and Resilience to Climate Change by SVFD, PRDIS & PJTSAU, Hyderabad, 22 nd – 24 th , April 2017, <i>Pp89</i> .
12	Satyanarayan, K., Shilpa Shree, J., Jagadeeswary, V. and Lalith Achoth, 2017. National Conference on Revisiting Agricultural Extension Strategies for Enhancing Food and Nutritional Security, Sustainable Livelihood and Resilience to Climate Change by SVFD, PRDIS & PJTSAU, Hyderabad, 22 nd – 24 th , April 2017, <i>Pp73</i> .
13	Satyanarayan, K., 2018. Challenges and Opportunities in Animal Husbandry Sector – An overview, Lead Paper presentation in the 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, <i>Pp26-28</i> .
14	Lavanya, R., Satyanarayan, K., Jagadeeswary, V., Narasimha Murthy, H.N., Upendra, H.A. and Krishnappa, 2018. Marketing Pattern of Coloured Broiler birds in Karnataka. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, <i>Pp29</i> .
15	Mahesh Savanur, Satyanarayan, K. and Jagadeeswary, V., 2018. Efficiency of Cattle Markets in Eastern Dry Zone of Karnataka. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, <i>Pp37</i> .
16	Dinaker, H.P., Satyanarayan, K., Jagadeeswary, V., Jayashankar, M.R., Veeranna, K.C. and Harish, M., 2018. A Study on the Rearing Pattern of Bannur Sheep in its Home tract. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, <i>Pp41</i> .
17	Kiran, M., Satyanarayan, K., Jagadeeswary, V., Rajeshwari, Y.B., Prabhu, T.M. and Naveen Kumar, S., 2018. Intensive cultivation of Agasse (<i>Sesbania grandiflora</i>) for sustainable sheep farming – An Action Oriented Research. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, <i>Pp86</i> .
18	Shreyansh, S.H., Pavithra, G.N., Pradeep Kumar, S., Jagadeeswary, V. and Satyanarayan, K., 2018. Gender Analysis in Livestock Production in Karnataka – An Exploratory Study. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, <i>P87</i> .



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19	Ajith B, Satyanarayan K, Jagadeeswary V, Rajeshwari Y B, Veeranna K C and Harish M, 2018. Impact of SHGs on Socio Economic Status – An Exploratory Study. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pg 101.
20	Harish, M., Satyanarayan, K., Jagadeeswary, V., Gopala, G.T., Chennapagowda Biradar and Anant Rao Desai, 2018. Dairy Production Constraints in Kolar & Chickabalpur Districts of Karnataka. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp101.
21	Vrunda, R., Satyanarayan, K., Jagadeeswary, V., Rajeshwari, Y.B., Veeranna, K.C. and Sudha, G., 2018. Buffalo Rearing Pattern – An Exploratory Study in Bidar District. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp125.
22	Chandrashekhar, G.K., Satyanarayan, K., Jagadeeswary, V., Sudha, G., Rajeshwari, Y.B. and Prabhu, T.M., 2018. An exploratory study on Days Open in Crossbred Cattle in Bengaluru Rural district. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp126.
23	Pavan Belakeri, Satyanarayan, K. and Jagadeeswary, V., 2018. M – Animal Husbandry Extension – A new intervention in Livestock Development. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp144.
24	Satyanarayan, K., Jagadeeswary, V., Pavan Belakeri, Yathiraj, S. and Anand Babu, 2018. Develop and Evaluate Use of Mobile Application for Cattle Farming: A New Generation Technology Transfer for Sustainable Dairy Production. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp145.
25	Mutturaj Yadav, Jagadeeswary, V. and Satyanarayan, K., 2018. Adoption of Climate – Smart practices by Small holder Catlle farmers in Central dry zone of Karnataka. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp147.
26	Pavan Belakeri, Chandrashekhar, G.K., Satyanarayan, K. and Jagadeeswary, V., 2018. An analysis on Adoption of Dairy Scientific Practices among farmers of Karnataka. 7 th National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shimoga, 29-31 st January 2018, Pp182.
27	Ajith, K.S., Madhura, Y., Arpitha, R., Chandrapal Singh, K., Krishnamoorthy, U., Prabhu, T.M., Narasimhamurthy, H.N. and Gloridoss, R.G., 2018. Nutritional evaluation of spineless cactus (<i>Opuntia ficus indica</i>) in growing lambs. XVII Biennial Animal Nutrition Conference on Nutritional Challenges for Raising Animal Productivity to Improve Farm Economy held at College of Veterinary Science & A. H, Junagadh during Feb 1-3 rd , 2018, Pp340.
28	Dharmaraj, G.Y., Jayanaik, Indresh, H.C., Prabhu, T.M. and Munegowda, T., 2017. Effect of HIM on dressing percentage and carcass characteristics of Giriraja birds. Proceedings of IPSACON Conference 28-30 th Nov, 2017 held at Bengaluru, Pp229.



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29	Ramachandraiah, M., Chandrapal Singh, K., Madhura, Y., Arpitha, R., Ajith, K.S., Krishnamoorthy, U., Prabhu, T.M. Gloridoss, R.G., Umashankar, B.C. and Gouri, M.D., 2018. Effect of zinc supplementation on growth performance in lambs. XVII Biennial Animal Nutrition Conference on Nutritional Challenges for Raising Animal Productivity to Improve Farm Economy. February 1-3, 2018, Junagadh, India, <i>Pp105</i> .
30	Arpitha, R., Ajith, K.S., Madhura, Y., Chandrapal Singh, K., Krishnamoorthy, U., Prabhu, T.M., Umashankar, B.C. and Gouri, M.D., 2018. Evaluation of complete diets based on spineless cactus (<i>Opuntia ficus indica</i>) in sheep. XVII Biennial Animal Nutrition Conference on Nutritional Challenges for Raising Animal Productivity to Improve Farm Economy. February 1-3, 2018, Junagadh, India, <i>Pp-341</i> .
31	Veena, N., Chandrapal Singh, K., Prabhu, T.M., Umashankar, B.C., Suma, N. and Sunil Kumar, K.K., 2018. Effect of replacing feed grade urea with slow release urea on digestibility of nutrients in dairy cows. XVII Biennial Animal Nutrition Conference on Nutritional Challenges for Raising Animal Productivity to Improve Farm Economy. February 1-3, 2018, Junagadh, India, <i>Pp293</i> .
a) 2	Farman, S., Tripathi, S.K., Nandi, S., Girish Kumar, V. and Savitha, S.T., 2017. Serum electrolytes as indicators of metabolic stress. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India., 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 8240, <i>Pp109</i> .
b) 3	Hemashree, P., Srikanth, N.R., Sridhar, R.N., Girish Kumar, V. and Nataraj, L., 2017. Comparison of serum total protein and serum calcium levels in lactating and pregnant Nari Suvarna sheep in field conditions. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India., 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 8166, <i>Pp84</i> .
c)	Sunil Kumar, K.K., Girish Kumar, V., Ramesh, H.S., Manjunath Reddy, Kavya, V., Veena, N. and Rudrappa, S.M., 2017. Effect of seasonality on reproduction behaviour in Royal Bengal Tigers. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 8221, <i>Pp26</i> .
d) 4	Sunil Kumar, K.K., Girish Kumar, V., Srikanth, N.R., Sridhar Bhat, Savitha, Kalpana and Nirupama Jaisingh, 2017. Effect of age on serum insulin, Thyroxine and Triiodothyronine concentration in Royal Bengal Tigers. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 7856, <i>Pp83</i> .
e) 5	Vidya, M.K., Girish Kumar, V., Bagath Madijagan, Krishnan, G., Sejian, V., Puneeth, H.J., Ramesh, H.S., Srikanth, N.R., Manjunath Reddy and Nirupama Jaisingh, 2017. Sexual influence on expression patterns of different Toll Like Receptors in Royal Bengal Tigers. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 8236, <i>Pp113</i> .
f) 6	Ramesh, H.S., Tripathi, S.K., Nandi, S., Girish Kumar, V. and Vidya, M.K., 2017. Amphiregulin enhances the Invitro growth of ovaries prenatal follicles. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 8241, <i>Pp27</i> .
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a38	Ramesh, H.S., Tripathi, S.K., Nandi, S., Girish Kumar, V., Vidya, M.K., Kavya, V. and Sunil Kumar, K.K., 2017. Effects of different concentrations of Insulin-Transferrin-selenium on the In vitro maturation of preantral follicles in serum free and serum supplemented media. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 8242, <i>Pp</i> 88.
b39	Srikanth, N.R., Ashok Kumar, D., Jayasri, A. and Girish Kumar, V., 2017. Efficacy of yeast culture on amelioration of combined toxicity of aflatoxin and T2 toxin on biochemical parameters in broilers. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary College, Hebbal, Bengaluru, Abstract No 8231, <i>Pp</i> 102.
c40	Srikanth, N.R., Vijay Kumar, A. and Girish Kumar, V., 2017. Comparison of serum biochemical parameters of brucella infected and healthy ewes. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary College, Hebbal, Bengaluru, Abstract No 8108, <i>Pp</i> 105.
d41	Srikanth, N.R., Hemashree, P., Ramesh, H.S., Vidya, M.K., Girish Kumar, V. and Sunil Kumar, K.K., 2017. Mixed mycotoxicosis and its effect on serum enzymes. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary College, Hebbal, Bengaluru, Abstract No 8234, <i>Pp</i> 109.
e42	Kalpana, K.N., Kavya, V., Veena, N., Girish Kumar, V., Ramesh, H.S., Sunil Kumar, K.K. and Hemashree, P., 2017. A Comparative study on milk composition of Karnataka natives breed and cross bred cows. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary college, Hebbal, Bengaluru, Abstract No 7876, <i>Pp</i> 55.
f43	Savitha, S.T., Behera, P.C., Senapati, M.R., Nayak, H., Pati, P.K., Parija, S.C. and Bisoi, P.C., 2017. Anti oxidative and anti microbial role of brassica campestris l leaf on storage of poultry meat. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary College, Hebbal, Bengaluru, Abstract No 8194, <i>Pp</i> 99.
44	Divya, V., Srinivas Rao Patnaik, Girish Kumar, V., Ramesh, H.S., Sunil Kumar, K.K., Hemashree, P., Pavanashree, U.S., Farman, M. and Madhusudhan, J.R., 2017. Innovative and advanced biochemical and biotechnological approaches to reproduction in animals. Second Annual Convention and National Symposium of Society of Veterinary Biochemists and Biotechnologist's of India, 2 nd and 3 rd June 2017 at Veterinary College, Hebbal, Bengaluru, <i>Pp</i> 29.
45	Rakshith, M., Shilpa, V.S., Ramya, Renukaradhy, G.J., Sudha, G. and Chandarshekaryya Salimath, 2018. Evaluation of pyometra affected bitches for systemic inflammatory response syndrome (SIRS). XXXIII Annual Convention & National Symposium, 9-11 Feb., 2018, ISSAR, West Bengal, Calcutta, <i>Pp</i> 205.
46	Rakshith, M., Shilpa, V.S., Darshan, C.N., Renukaradhy, G.J., Ramya, R., Chandarshekaryya Salimath and Babu, M., 2018. Surgical correction of persistent mullerian duct in male dog. XXXIII Annual Convention & National symposium, 9-11 Feb., 2018, ISSAR, West Bengal, Calcutta, <i>Pp</i> 71.



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47	Rakshith, M., Babu, M., Chandarshekaryya Salimath, Renukaradhy, G.J., Shilpa, V.S. and Vijay, P., 2018. Successful management of dystocia in goat by percutaneous foetotomy-A case report. XXXIII Annual Convention & National symposium, 9-11 Feb., 2018, ISSAR, West Bengal, Calcutta, <i>Pp</i> 74.
48	Ramya, Rakshith, M., Shilpa, V.S., Renukaradhy, G.J. and Chandarshekaryya Salimath, 2018. Leiomyomas in bitches: A prospective study- XXXIII Annual Convention & National symposium, 9-11 Feb., 2018, ISSAR, West Bengal, Calcutta, <i>Pp</i> 197.
49	Suchitra, B.R., Babu, M., Vikram and Rashmi, S., 2018. Ultrasonic diagnosis and surgical management of prostatic cyst in a dog- XXXIII Annual Convention & National symposium, 9-11 Feb., 2018, ISSAR, West Bengal, Calcutta, <i>Pp</i> 51.
50	Shilpa, V.S., Vikram, Ramya, R., Suchitra, B.R., Babu, M. and Vijay, P., 2018. Haematinic mummification in primiparous ewe: a case report- XXXIII Annual Convention & National symposium, 9-11 Feb., 2018, ISSAR, West Bengal, Calcutta.
51	Uday Kumar, Mahadevappa, D. Gouri, Rajeshwari, Y.B., Narasimha Murthy, H.N., Supriya, S., Siddeswara, N.C., Abdul Mateen and Prasanna, S.B., 2018. Biomass yield and chemical composition of BHN 18 and CO5. IVEF National Conference on Shaping Livestock Extension Advisory Services (IEAS) for Doubling Farmers's Income. Veterinary College, Shivamogga. 29 to 31 st January.
52	Mahadevappa, D. Gouri, Rajeshwari, Y.B., Supriya, S. and Prasanna, S.B., 2018. Low cost technologies for enhancement of productivity in livestock. IVEF National Conference on Shaping Livestock Extension Advisory Services (IEAS) for Doubling Farmers's Income. Veterinary College, Shivamogga. 29 to 31 st January.
53	Sudharshan, V., Rajeshwari, Y.B., Narasimha Murthy, H.N., Satyanarayana, K., Mahadevappa, D. Gouri, Anil Kumar and Prabhu, T.M., 2017. Effect of intensive and semi intensive system of rearing on the growth performance of Mandya sheep. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.
54	Siddeswara, N.C., Guruprasad, R., Rajeshwari, Y.B., Abdul Mateen, K.W. and Uday Kumar, 2017. Influence of feeding drumstick (<i>moringa oleifera</i>) foliage on blood parameters in broiler rabbits. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.
55	Anup Kumar, P.K., Rajeshwari, Y.B., Supriya, S., Banuprakash, A.R. and Sudarshan, V., 2017. Effect of supplementation of an exogenous fibrolytic enzyme on the milk production and composition in crossbred dairy cattle. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.
56	Abdul Mateen, K.W., Uday Kumar, Mahadevappa, D. Gouri, Anil Kumar, G.K., Narasimhamurthy, H.N. and Rajeshwari, Y.B., 2017. Ethogram in bannur sheep under farm condition. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.



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57	Sudharshan, V., Rajeshwari, Y.B., Supriya, S., Naveen Kumar, A.R., Banuprakash, P.K. and Anup Kumar, 2017. Influence of method of rearing on the parasitic load in Mandy sheep. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.
58	Venu, R., Raghuveera, D.M., Mahadev Lamani, Vivek, M. Patil, Rajeshwari, Y.B., Guruprasad, R., Siddeshwara, N.C., Abdul Mateen, K.W., Uday Kumar. and Supriya, S., 2017. An analysis of the welfare practices followed at laboratory animal facilities in Bengaluru. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.
59	Abdul Mateen, K.W., Vivek, M. Patil, Rajeshwari, Y.B., Uday Kumar, Siddeswara, N.C., Raghuveer, D.M., Guruprasad, R. and Supriya, S., 2017. A Study On Management Practices followed by Horse Cart (Jatka) Owners In Karnataka. National Symposium on Livestock Resources Management under Changing Climatic Scenario and 24 th Annual Convention of ISAPM, UAS and Technology of Kashmir, Srinagar, Jammu and Kashmir.
60	Ramachandraiah, M., Chandrapal Singh, K., Madhura, Y., Arpitha, R., Ajith, K.S., Krishnamoorthy, U., Prabhu, T.M., Gloridoss, R.G., Umashankar, B.C. and Gouri, M.D., 2018. Effect of Zinc supplementation on growth performance in lambs. XVII Biennial Animal Nutrition Conference on Nutritional challenges for raising animal productivity to improve farm economy, Junagarh Agricultural University, Junagarh. 1 st to 3 rd February, 2018, <i>Pp</i> 105.
61	Madhura, Y., Chandrapal Singh, K., Krishnamoorthy, U., Ajith, K.S., Arpitha, R., Narasimhamurthy, M.N., Rajeshwari, Y.B. and Gouri, M.D., 2018. <i>In-Vitro</i> evaluation of complete diets based on Spineless Cactus (<i>Opuntia ficus indica</i>) and Moringa (<i>Moringa oleifera</i>) for ruminat feeding. XVII Biennial Animal Nutrition Conference on Nutritional challenges for raising animal productivity to improve farm economy, Junagarh Agricultural University, Junagarh. 1 st to 3 rd February, 2018, <i>Pp</i> 314.
62	Ajith, K.S., Madhura, Y., Arpitha, R., Chandrapal Singh, K., Krishnamoorthy, U., Prabhu, T.M., Narasimhamoorthy, H.N. and Gloridoss, R.G., 2018. Nutritional Evaluation Of Spineless Cactus (<i>Opuntia Ficus Indica</i>) In Growing Lambs. XVII Biennial Animal Nutrition Conference On Nutritional Challenges For Raising Animal Productivity To Improve Farm Economy, Junagarh Agricultural University, Junagarh. 1 st To 3 rd February, 2018, <i>Pp</i> 340.
63	Arpitha, R., Ajith, K.S., Madhura, Y., Chandrapal Singh, K., Krishnamoothy, U., Prabhu, T.M., Umashankar, B.C. and Gouri, M.D., 2018. Evaluation of complete diets based on Spineless Cactus (<i>Opuntia ficus indica</i>) in sheep. XVII Biennial Animal Nutrition Conference on Nutritional challenges for raising animal productivity to improve farm economy, Junagarh Agricultural University, Junagarh. 1 st to 3 rd February, 2018, <i>Pp</i> 341.
64	Madhura, Y., Krishnamoorthy, U. and Chandrapal Singh, K., 2018. Ruminal ammonia release and pH pattern in dairy cows fed calcium chelated urea supplement.18 th Indian Veterinary Congress. XXV Annual Conference of IAAVR and National Symposium on Indian Veterinary Leadership to Promote National and International Collaboration, Coalitions and Linkages for Global Competitiveness in Animal Health and Production, Research and Education. 23-24 February, 2018, <i>Pp</i> 128.



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65	Archana, P.R., Sejian, V. and Wilfred Ruban, S., 2017. Impact of heat stress on meat quality of malabari goats, National Seminar on Food Adequacy and Climate change: Strategies for sustainable food Production. 3-4, November 2017, Thrissur, Kerala.
66	Archana, P.R., Sejian, V., Krishnan, G., Bagath, M. and Wilfred Ruban, S., 2017. Impact of heat stress on the carcass traits, plasma leptin profile and skeletal muscle HSP70 expression pattern in Malabari goats, 9 th Kerela Veterinary Congressorganized by Indian Verterinary Association, Kerela from 11-12, November 2017.
67	Reena Arora, Naveen Kumar, S., Sudarshan, S., Fairoze, M.N., Kaur, M., Sreesujatha, R.M., Ahlawat, S. and Vijh, R.K., 2017. Exploring the muscle transcriptome of Bandur during the National Seminar on small ruminants: National scope on up scaling production to products value addition and their safety Indian Society for Sheep and Goat Production and Utilization at ICAR-CIRG, Makdhoom, 9 th to 10 th November, 2017.
68	Namratha, K.B., Nadeem Fairoze, Naveena, B.M., Ruban, W.S., Sudarshan, S., Priyanka, V.S. and Sahana, M., 2017. Effect of low voltage electrical stimulators on proteome changes in sheep meat during the National Seminar on Food adequacy & Climate change: strategies for sustainable food production" organized by AMST at Thrissur, Kerala 3 rd to 4 th November, 2017.
69	Sahana, M., Fairoze, N., Vaithiyanathan, Ruben, W., Sudarshan, S., Namratha, K.B. and Priyanka, V.S., 2017. A Comparison of DNA extraction methods for fats and rendered fats analysis authored by, during the National Seminar on Food adequacy & Climate change: strategies for sustainable food production organized by AMST at Thrissur , Kerala 3 rd to 4 th November, 2017.
70	Rathnamma, D. and Kamal Hasan, B., 2017. Advances in diagnosis of Canine parvovirus - Our initiatives. National Symposium on Innovative and emerging Biochemical and Biotechnological tools to augment Animal Health and Production, SVBBI-2017 held during 2-3, June, 2017 at Veterinary College, Hebbal, Bengaluru, Pp36.
71	Sunil Kumar, K.M., Isloor, S., Ansar kamran, C., Santhosh, A.K., Sharada, R., Ramesh, P.T., Rathnamma, D. and Yathiraj, S., 2017. Estimation of post vaccinal antirabies antibody titer and evaluation of different regimen of vaccination in cattle (Sunil kumar Ph.D. scholar awarded Young Scientist Award). 19 th National Conference of Association for Prevention and Control of Rabies in India-APCRICON, 2017 on 'Towards elimination of human rabies by 2030' from 8-9 July, 2017 held at Goa Medical College, Bambolim, Goa.
72	Sujith, S. Nath, Veeregowda, B.M., Isloor, S., Rathnamma, D., Tajunnisa, M., Santosh, A.K., Leena, G. and Ramesh, P.T., 2017. Ante-mortem vis-a-vis Post-mortem diagnosis of Rabies in dogs. (Sujith Nath, MVSc scholar, awarded Best Poster presentation award). 19 th National Conference of Association for Prevention and Control of Rabies in India-APCRICON ,2017 on 'Towards elimination of human rabies by 2030' from 8-9 July, 2017 held at Goa Medical College, Bambolim, Goa
73	Pannaga, P., Rathnamma, D., Isloor, S., Veeregowda, B.M., Narayanaswamy, H.D., Chandranaik, B.M., Ramesha, C.B. and Mukartal, S.Y., 2017. Development of indirect in-house ELISA for the detection of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> infection in animals. XV Biennial conference and National symposium of Indian Association of Women Veterinarians on "Role of Women Veterinarians in enhancement of Livestock productivity, Health and Welfare" held at College of Veterinary Science, Hyderabad during 21-22, November, 2017, Pp237.



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74	Amitha Reena Gomes, Veeregowda, B.M., Byregowda, S.M., Rathnamma, D., Placid, E. D'Souza and Balamurugan, V., 2017. Expression of fusion protein of Peste Des Petits Ruminants virus in Baculo virus system and its role as a putative immunopgen. XV Biennial conference and National symposium of Indian Association of Women Veterinarians on “Role of Women Veterinarians in enhancement of Livestock productivity, Health and Welfare” held at College of Veterinary Science, Hyderabad during 21-22, November, 2017, <i>Pp120</i> .
75	Mukortal, S.Y., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Chandranaiik, B.M., Manjunath, S.S., Sddalingamurthy, H.K., Ramesha, C.B. and Pannaga, P., 2018. First time recovery of Indian bison type a novel biotype of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> from mandya breed of sheep suffering from clinical Johne's disease. National symposium on “Innovations in Animal Health- Current Challenges and Future Prospectives” and 31 st Annual convention of Indian Association of Veterinary Microbiologists, Immunologists and specialists in Infectious diseases(IAVMI) held at College of Veterinary Science, SVVU, Tirupati during 29-31, January 2018. <i>Pp55</i> .
76	Ramesha, C.B., Rathnamma. D., Isloor, S., Veeregowda, B.M., Narayanaswamy, H.D., Narayana Bhat, M., Siddalingamurthy, H.K., Ganesh, K., Mukortal, S.Y., Prashanth, A.G., Manjunatha, K.P. and Sreesujatha, R.M., 2018. Evaluation of inactivated <i>Mycobacterium avium</i> sub species <i>paratuberculosis</i> vaccine in experimentally challenged sheep. National symposium on “Innovations in Animal Health- Current Challenges and Future Prospectives” and 31 st Annual convention of Indian Association of Veterinary Microbiologists, Immunologists and specialists in Infectious diseases(IAVMI) held at College of Veterinary Science, SVVU, Tirupati during 29 -31, January 2018, <i>Pp109</i> .
77	Sujith, S. Nath, Veeregowda, B.M., Isloor, S., Rathnamma, D., Tajunnisa, M., Santhosh, A.K., Leena, G. and Ramesh, P.T., 2018. Ante-mortem vis-à-vis Post –mortem diagnosis of rabies in dogs. National symposium on “Innovations in Animal Health- Current Challenges and Future Prospectives” and 31 st Annual convention of Indian Association of Veterinary Microbiologists, Immunologists and specialists in Infectious diseases(IAVMI) held at College of Veterinary Science, SVVU, Tirupati during 29 -31, January 2018, <i>Pp148</i> .
78	Sujith, S. Nath, Veeregowda, B.M., Isloor, S., Rathnamma, D., Leena, G. and Ramesh, P.T., 2018. Comparison of viral load in furious and paralytic forms of rabies in dogs. National symposium on “Innovations in Animal Health- Current Challenges and Future Prospectives” and 31 st Annual convention of Indian Association of Veterinary Microbiologists, Immunologists and specialists in Infectious diseases(IAVMI) held at College of Veterinary Science, SVVU, Tirupati during 29-31, January 2018, <i>Pp169</i> .
79	Mukortal, S.Y., Rathnamma, D., Narayanaswamy, H.D., Isloor, S., Chandranaiik, B.M., Manjunath, S.S., Ramesha, C.B., Pannaga, P. and Sddalingamurthy, H.K., 2018. Isolation and Molecular characterization of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> from ruminants in India, National symposium on “Innovations in Animal Health - Current Challenges and Future Prospectives” and 31 st Annual convention of Indian Association of Veterinary Microbiologists, Immunologists and specialists in Infectious diseases(IAVMI) held at College of Veterinary Science, SVVU, Tirupati during 29-31, January 2018, <i>Pp211</i> .



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80	Amitha, R.G., Byregowda, S.M., Veeregowda, B.M., Balamurugan, V., Rathnamma, D., Chandranaik, B.M. and Shivashankar, B.P., 2018. Epidemiological investigation of the peste des petits ruminants outbreaks in Karnataka, India and Expression of immunogenic protein of PPR virus in heterologous system & its role as a putative antigen. National symposium on “Innovations in Animal Health- Current Challenges and Future Prospectives” and 31 st Annual convention of Indian Association of Veterinary Microbiologists, Immunologists and specialists in Infectious diseases(IAVMI) held at College of Veterinary Science, SVVU, Tirupati during 29-31, January 2018, <i>Pp222</i> .
81	Veeregowda, B.M., Anil Kumar, S., Rathnamma, D., Leena, G., Isloor, S. and Shome, R., 2018. Isolation and standardization of diagnostic assay for the detection of <i>Bacillus anthracis</i> in livestock. XVIII Indian Veterinary Congress & XXV Annual Conference of Indian Association of Advanced Veterinary Research (IAAVR) held at College of Veterinary Science, SVVU, Tirupati during 23-24, February, 2018.
82	Placid, E. D'Souza and Archana, M., 2017. Identification of insects by barcoding with special reference to Culicoides and Muscid flies. In “An update on diagnosis and control of parasitic disease”. Ananda, K.J., Pradeep, B.S., Rakesh, R.L. and Malatesh, D.S., 2017, Department of Veterinary Parasitology, Veterinary College, Shimoga, Karnataka Veterinary, Animal and Fisheries Sciences University (KVAFSU), Bidar, Karnataka, India, <i>Pp197-206</i> .
83	Placid, E. D'Souza and Archana, M., 2017. Applications of nanotechnology in the treatment and control of parasitic diseases - An Overview. 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp15-16</i> .
84	Gautham, N. and Placid, E. D'Souza, 2017. Copro-PCR for screening Toxoplasmosis in stray cats from Bengaluru. 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp34</i> .
85	Thimmareddy, P.M., Md. Hafeez, Prakash, N. and Ganesh Udupa, 2017. Seroprevalence of <i>Toxoplasma gondii</i> in human patients in Bidar district of Karnataka. 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp35</i> .
86	Mamatha, G.S., Shanthaveer, S. Biradar, Lavanya, K.V., Krishnamurthy, C.M., Bonathu Dasma Bai and Placid, E. D'Souza, 2017. Molecular characterization and phylogenetic analysis of <i>Isospora</i> species from Loris Tardigradus (Slender loris). 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp55</i>
87	Thimmareddy, P.M., Md. Hafeez and Madhava Prasad, C.B., 2017. Isolation of <i>Toxoplasma gondii</i> like oocysts from a cat. 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp96</i> .
88	Manohara, B.M., Placid, E. D'Souza and Mamatha, G.S., 2017. A study on the prevalence of hepatointestinal parasites in cattle. 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp103</i> .
89	Archana, M., Placid, E. D'Souza and Kesavan Subaharan, 2017. Evaluation of biopesticide for control of <i>Musca domestica</i> . 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp106</i> .
90	Lavanya, K.V., Mamatha, G.S., Shanthaveer, S. Biradar, Bonathu Dasma Bai, Krishnamurthy, C.M. and Placid, E. D'Souza, 2017. Comparison of different methods in recovery and purification of coccidian oocysts. 27 th National Conference of Parasitology, held from 25 th to 27 th April, 2017 at NIHMANS, Bengaluru, <i>Pp128</i> .



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91	Geetha, N., Mamatha, G.S., Thimmareddy, P.M., Shakuntala Kage, Jaya, N. Lakkundi, Placid, E. D'Souza, 2017. Rearing and morphological identification of third stage larvae of Calliphorid flies. XXXIV Annual conference of Indian Association of Veterinary Pathologists Compendium held from 9-11 th November, 2017 at Bengaluru, Karnataka, <i>Pp473</i> .
92	Amitha Reena Gomes, Veeragowda, B.M., Byregowda, S.M., Rathnamma, D., Placid, E. D'Souza and Balamurugan, V., 2017. Expression of fusion protein of Peste Des Petitsruminants virus in Baculo virus system and its role as a putative immunogen. XV Biennial conference and national symposium on “Role of women Veterinarians in enhancement of livestock productivity, health and welfare” at College of Veterinary Science, PVNR TVU, Hyderabad from 21 to 22 November 2017, <i>Pp120-121</i> .
93	Pradeep, B.S., Jaya, N. Lakkundi and Veena, M., 2017. Deltamethrin and Cypermethrin resistance in Rhipicephalus (Boophilus) microplus ticks of Bidar district of Karnataka. International Conference on “Facing Challenges Together for Sustainable Livestock and Poultry Health – A local initiative for global solutions” organized by Health Departments, Veterinary college and Research Institute, Namakkal, TANUVAS, Tamilnadu, <i>Pp142</i> .
94	Manjunath, S.P. and Dhanalakshmi, H., 2017. Public Health Importance of Bladder worms of Taenia in Hassan District of Karnataka. 13 th Kannada VignanaSammelana organized by SwadeshiVijnanaAndolana, Karnataka on 15 th to 17 th September 2017 in collaboration with Ramaiah University of Applied Sciences, <i>Pp46-47</i> .
95	Manjunath, S.P., Dhanalakshmi, H. and Ramesh, B.K., 2017. Fly menace in different parts of Karnataka and their control. 13 th Kannada VignanaSammelana organized by SwadeshiVijnanaAndolana, Karnataka on 15 th to 17 th September 2017 in collaboration with Ramaiah University of Applied Sciences, <i>Pp48</i> .
96	Manjunath, S.P., Naveen, M., Chaitra, Y., Dhanalakshmi, H., Manjunath, D.R. and Nagaraj, N., 2017. Prevalence of Parasitic Cysts of Taenidae family in Southern Karnataka and their management. 41 st Annual Congress of Indian Society for Veterinary Surgery and National Symposium on “New Horizons in Cancer Research pertaining to effect on health production and reproduction of animals at College of Veterinary Science, Tirupati on 14 th to 16 th December, 2017, <i>Pp333</i> .
97	Shanthaveer, S.B. and Placid, E. D'Souza, 2018. In vitro cultivation of Setaria digitata worms in artificial media. XXVII National congress of Veterinary Parasitology and National Symposium held from 12 to 14 th February at Udaipur, Rajasthan, <i>Pp30</i> .
98	Manohara, B.M., Placid, E. D'Souza, Mamatha, G.S. and Dhanalakshmi, H., 2018. Molecular studies on hepatointestinal schistosomes in cattle of Karnataka state. XXVII National congress of Veterinary Parasitology and National Symposium held from 12 to 14 th February at Udaipur, Rajasthan, <i>Pp64</i> .
99	Placid, E. D'Souza, Archana, M. and Mamatha, G.S., 2018. Application of Nanotechnology in Parasitology. In Parasitology: Camera Lucida to Omics, Editors Dr. SanweerKhattoon and Dr. C.S.Vaishnava, Himanshu Publications at XXVII National congress of Veterinary Parasitology and National Symposium held from 12 to 14 th February at Udaipur, Rajasthan.
100	Placid, E. D'souza and Krishnamurthy, C.M., 2018. Control of arthropod pests with botanicals - An Overview. XXVII National congress of Veterinary Parasitology and National Symposium held from 12 to 14 th February at Udaipur, Rajasthan, <i>Pp147</i> .



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101	Placid, E. D'souza, 2018. Key note address on "Technologies for sustainable parasite control and readdressal of detection methods directed for upliftment of rural economy". XXVII National congress of Veterinary Parasitology and National Symposium held from 12 to 14 th February at Udaipur, Rajasthan.
102	Shanthaveer, S.B. and Placid, E. D'Souza, 2018. A report on snails and cercarial shedding in 2 lake regions in Bengaluru. XXVII National congress of Veterinary Parasitology and National Symposium held from 12 to 14 th February at Udaipur, Rajasthan, <i>Pp71</i> .
103	Placid, E. D'Souza, Lavanya, K.V. and Puttalakshamma, G.C., 2018. Use of Biorational insecticides for the control of insect pests and vectors. 28 th National Congress of Parasitology, "Challenges and Innovations in controlling Parasitic Diseases.22 nd to 24 th February, Belgaum, Karnataka, <i>Pp26</i> .
104	Indresh, H.C., Shivakumar, M.C., Chandregowda, C.T., Suresh, B.N., Girish, B.C. and Sunil Kumar, M.A., 2017. Influence of cordyceps and essential oils on growth and carcass characteristics of broilers. Procc. of XXXIV IPSACON, 28-30 Nov., 2017, Bengaluru, <i>Pp198</i> .
105	Praveen, T., Munegowda, T., Indresh, H.C. and Jayanaik, 2017. Effect of various levels of inulin on growth performance and survivability in Raja II broilers. Procc.of XXXIV IPSACON, 28-30 Nov, 2017, Bengaluru, <i>Pp125</i> .
106	Dharmaraj, G.Y., Jayanaik, Indresh, H.C. and Munegowda, T., 2017. Effect of HIM on dressing percentage and carcass characteristics of Giriraja Birds. Procc.of XXXIV IPSACON, 28-30 Nov, 2017, Bengaluru, <i>Pp229</i> .
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108	Amith, N.G., Parameswara, K.T., Lohitha, H.D. and Nagaraja, B.N., 2017. Surgical management of tibio tarsal fracture of pigeon, 41 st Annual Congress Of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp69</i> .
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110	Rahul, P.A., Shivakumar, Mahesh, V. and Nagaraja, B.N., 2017. A Successful Surgical Correction Of Traumatic Crop (Ingluvies) Rupture In Pigeon(<i>Columba Livia</i>)- A Case Report ,41 st Annual Congress Of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp70</i> .
111	Suresh, L., Shivakumar, E., Nagaraj, B.N. and Ranganath, L., 2017. Surgical Management Of Accidental Tibio Tarsal Fracture In Peacock, 41 st Annual Congress Of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp70</i> .
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114	Mahesh, V., Mahadev, M., Manjunath, G., Prashanth, S., Ranganath, L. and Nagaraja, B.N., 2017. Management Of Squamous Cell Carcinoma On The Cornea In A Cross Breed Cattle: A Case Report, 41 st Annual Congress of ISVS, 14-16 th December , Tirupati, <i>Pp125</i> .
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116	Suresh, L., Shiva Kumar, E., Ranganath, L. and Mandar, Y.G., 2017. Successful surgical management of cloacal prolapse in a turtle. 41 st Annual congress of ISVS, 14 th - 15 th December, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati, <i>Pp304</i> .
117	Mahesh, V., Mandar, Y.G., Ranganath, L. and Nagaraja, B.N., 2017. Surgical correction of ruptured tendon of extensor carpi ulnaris in a monkey, 41 st Annual Congress of ISVS, 14-16 th December , Tirupati- 517502 (AP), <i>Pp316</i> .
118	Amith, N.G., Parameswara, K.T., Lohitha, H.D. and Nagaraja, B.N., 2017. Surgical management of sertoli cell tumor in non descript breed of dog. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp319</i> .
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122	Amith, N.G., Parameswara, K.T., Lohitha, H.D. and Nagaraja, B.N., 2017. Surgical repair of femur fracture in rabbit. 41 st Annual Congress Of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp319</i> .
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129	Mahesh, V., Mahadev, M., Ranganath, L. and Nagaraja, B.N., 2017. Scrotal hernia in a pug. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp325</i> .
130	Manjunath, G., Mahesh, V., Mahadev, M., Srinivasa Murthy, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Surgical reconstruction of a muzzle in a dog after excision of muzzle tumor. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati-517502 (AP), <i>Pp325</i> .
131	Mahesh, V., Mahadev, M., Srinivasa Murthy, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Entero- vesico-proatatocele dog- a case report. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp325</i> .
132	Mandar, Y.G., Mahesh, V., Rahul, P.A., Ranganath, L. and Nagaraja, B.N., 2017. Surgical correction of atresia ani with rectovaginal fistula in a shih tzu puppy. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp325</i> .
133	Ramesha, H., Mandar, Y.G., Mahesh, V., Srinivasa Murty, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Surgical removal of wooden splint from the chronic abscess at cervical region of dog. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp325</i> .
134	Ramesha, H., Mahesh, V., Rahul, P.A., Srinivasa Murty, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Surgical management of intestinal obstruction caused by mango kernel in a saint bernard dog. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP) <i>Pp325</i> .
135	Mandar, Y.G., Srinivasa Murty, K.M., Rahul, P.A., Tejas, Y., Mahesh, V., and Nagaraja, B.N., 2017. A rare case of liposarcoma in a ten year old female neapolitan mastiff dog. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp326</i> .
136	Mahesh, V., Rahul, P.A., Mandar, Y.G., Ranganath, L. and Nagaraja, B.N., 2017. Surgical management of aural haematoma in a guinea pig- a case report. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp326</i> .
137	Mahadev, M., Mahesh, V., Prashanth, S., Ranganath, L. and Nagaraja, B.N., 2017. C-arm guided retrieval of cervical oesophageal obstruction in a Labrodor retriever dog. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp326</i> .
138	Shivakumar, E., Suresh L., Nagaraja, B.N. and Mahadev, 2017. Surgical management of traumatic ventral abdominal hernia in a cross breed heifer. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp331</i> .
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142	Ramesha, H., Mahesh, V., Muniraju, H.M., Ravikumar, S., Ranganath, L. and Nagaraja, B.N., 2017. Carpal hygroma and its surgical excision in a Holstein Friesian cow. 41 st Annual Congress of ISVS, 14 th - 16 th December , Tirupati- 517502 (AP), <i>Pp335</i> .
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145	Nagaraju, N., Balappanavar, B.R. and Suresh, L., 2017. C-arm guided IMP for tibiotarsus fracture repair in Peacock- A case report. 41 st Annual congress of ISVS, 14 th -15 th December, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati, <i>Pp67</i> .
146	Suresh, L. and Shiva Kumar, E., 2017. Surgical management of crop impaction in cock (<i>Gallus sp.</i>). 41 st Annual congress of ISVS, 14 th -15 th December, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati, <i>Pp68</i> .
147	Suresh, L., Shiva Kumar, E., Nagaraj, N. and Ranganath, L., 2017. Surgical management of accidental tibio tarsal fracture in a Peacock. 41 st Annual congress of ISVS, 14 th -15 th December, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati, <i>Pp75</i> .
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149	Shiva Kumar, E., Suresh, L., Nagaraja, B.N. and Rahul, P.A., 2017. Surgical management of horn fracture in an Ongole bull. 41 st Annual congress of ISVS, 14 th -15 th December, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati.
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157	Mandar, Y.G., Srinivasa Murthy, K.M., Mahesh, V., Ranganath, L. and Nagaraja, B.N., 2017. Surgical correction of metacarpal fracture by pinning in a cow. 41 st ISVS, 14 th -15 th Decedmber, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati.
158	Mahadev, M., Mahesh, V., Srinivasa Murthy, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Intramedullay pinning of radius and ulna in a pet bird. 41 st ISVS, 14 th -15 th Decedmber, Sri Venkateshwara Veterinary University, College of Veterinary Science, Tirupati, Pp77.
159	Rahul, P.A., Shivakumar, Mahesh, V. and Nagaraja, B.N., 2017. A successful surgical correction of traumatic crop (ingluvies) rupture in Pigeon (<i>columba livia</i>) - A case report. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
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162	Mahesh, V., Mahadev, M., Manjunath, G., Prashanth, S., Ranganath, L. and Nagaraja, B.N., 2017. Management of squamous cell carcinoma on the cornea in a cross bred cattle: A case report. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
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164	Mahesh, V., Mandar, Y.G., Ranganath, L. and Nagaraja, B.N., 2017. Surgical correction of ruptured tendon of extensor carpi ulnaris in a monkey. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
165	Mahesh, V., Mahadev, M., Srinivasa Murthy, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Monteggia fracture in a non descriptive dog. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
166	Mahesh, V., Mahadev, M., Ranganath, L. and Nagaraja, B.N., 2017. Scrotal hernia in a pug. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
167	Manjunath, G., Mahesh, V., Mahadev, M., Srinivasa Murthy, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Surgical reconstruction of a muzzle in a dog after excision of muzzle tumor. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
168	Mahesh, V., Mahadev, M., Srinivasa Murthy, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Entero- vesico-proatatocoele dog - A case report. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
169	Mandar, Y.G., Mahesh, V., Rahul, P.A., Ranganath, L. and Nagaraja, B.N., 2017. Surgical correction of atresia ani with rectovaginal fistula in a Shih tzu puppy. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
170	Ramesha, H., Mandar, Y.G., Mahesh, V., Srinivasa Murty, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Surgical removal of wooden splint from the chronic abscess at cervical region of dog. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).



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171	Ramesha, H., Mahesh, V., Rahul, P.A., Srinivasa Murty, K.M., Ranganath, L. and Nagaraja, B.N., 2017. Surgical management of intestinal obstruction caused by mango kernel in a Saint bernard dog. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
172	Mandar, Y.G., Srinivasa Murty, K.M., Rahul, P.A., Tejas, Y., Mahesh, V. and Nagaraja, B.N., 2017. A rare case of liposarcoma in a ten year old female Neapolitan mastiff dog. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
173	Mahesh, V., Rahul, P.A., Mandar, Y.G., Ranganath, L. and Nagaraja, B.N., 2017. Surgical management of aural haematoma in a Guinea pig - A case report. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
174	Mahadev, M., Mahesh, V., Prashanth, S., Ranganath, L. and Nagaraja, B.N., 2017. C-arm guided retrieval of cervical oesophageal obstruction in a Labrodor retriever dog. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
175	Ramesha, H., Mahesh, V., Muniraju, H.M., Ravikumar, S., Ranganath, L. and Nagaraja, B.N., 2017. Carpal hygroma and its surgical excision in a Holstein Friesian cow. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).
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177	Tejas, Y., Mahadev, M., Mahesh, V., Srinivasa Murthy, K.M and Nagaraja, B.N., 2017. Atresia ani in a kid – A case report. 41 st Annual Congress of ISVS, 14 th -15 th December, Tirupati- 517502 (AP).

VETERINARY COLLEGE, BIDAR

1	Siddalingswamy Hiremath, Prahlad, U., Anant Rao Desai and Appannavar, M.M., 2018. Preference for twinning among Kenguri sheep rearers in its tract. XV Annual convention of SOCDAB and National symposium on sustainable management of livestock and poultry diversity for enhancing the farmers' income. College of Veterinary and Animal Science, RUVAS, Bikaner, Rajasthan, 8 th -10 th Feb., 2018, Pp264.
2	Siddalingswamy Hiremath, Anant Rao Desai, Sunilchandra, U. and Appannavar, M.M., 2018. Farmer perceived reasons for rearing Kenguri sheep in its home tract. XV Annual convention of SOCDAB and National symposium on sustainable management of livestock and poultry diversity for enhancing the farmers' income. College of Veterinary and Animal Science, RUVAS, Bikaner, Rajasthan, 8 th -10 th Feb., 2018, Pp266.
3	Siddalingswamy Hiremath, Appannavar, M.M. and Shrikant Kulkarni, 2017. Climate change and Animal Genetic resources. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, Pp186-190.
4	Siddalingswamy, H., Santosh Sarangmath, P., Kotresh, A.M., Vinay Tikare and Sunilchandra, U., 2017. Higher model invertebrates and microorganisms as alternatives in research and testing. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, Pp96.



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5	Siddalingswamy Hiremath, Kotresh, A.M., Shrikant Kulkarni and Sunilchandra, U., 2017. Milk as source of dioxins-A persistent organic carcinogenic pollutant in plastic. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, <i>Pp</i> 107.
6	Kotresh, A.M., Sunilchandra, U., Shrikant Kulkarni, Siddalingswamy Hiremath and Ravikumar, C., 2017. Ethical issues - Alternatives for animal use in education. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, <i>Pp</i> 107.
7	Ramchandra, B. and Ravindra, D., 2017. Global warming: A nutritional intervention to minimize the ruminal methane production. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, <i>Pp</i> 43.
8	Jagannatha Rao, B., Kondal Reddy, K., Basawaraj Awati, Kulkarni, V.V., Madhava Rao, T. and Sarjan Rao, K., 2017. Economics of utilization of hydrolysed Fascia from slaughtered buffalo in buffalo meat patties. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, <i>Pp</i> 187.
9	Kiran, M., 2017. Meat- Where muscle physiology meets palate. XXVI Annual Conference of SAPI and National Symposium on Physiological innovations to forecast the impact of climate change and to evolve strategies for sustainable livestock production. Veterinary College, KVAFSU, Bidar, Karnataka, 21 st -22 nd Dec., 2017, <i>Pp</i> 50-58.
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विद्यालय का उद्देश्य ग्रामीण ओरिएटेड और फैरम फ्रेंडली है।

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82	Venkatgiri, Dilipkumar, D. and Shivaprakash, B.V., 2017. Romifidine, dexmedetomidine and xylazine sedation with ketamine isoflourane anesthesia for surgeries in cattle. 41 st Annual congress of ISVS and National Symposium on “New Horizons in cancer research pertaining to effect on health, production and reproduction in animals” at SVVU, CVSc, Tirupati (Andhra Pradesh): 14 th -16 th Dec., 2017, Tirupati, <i>Pp35</i> .
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90	Jahangirbasha, D., Shivaprakash, B.V., Dilipkumar, D., Bhagvantappa, B. and Usturge, S.M., 2017. Cervical oesophagotomy for retrieval of rexine in buffaloes. 41 st Annual congress of ISVS and National Symposium on “New Horizons in cancer research pertaining to effect on health, production and reproduction in animals” at SVVU, CVSc, Tirupati (Andhra Pradesh): 14 th -16 th Dec, 2017, Tirupati, <i>Pp222</i> .
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1	Lakshmisree, K.T., Prasad, R.V., Dhoolappa, M. and Jamuna, K.V., 2017. Gross morphology of interior of rumen in buffaloe (<i>Bubalus bubalis</i>). XV Biennial conference, IAWV, 21-22 Nov, 2017, PVNRTVU, Rajendranagar Hyderabad, <i>Pp46</i> .
2	Triveni, T., Lakshmisree, K.T., Kavitha Rani, B., Dhoolappa, M. and Nagappa, K., 2017 Comparative morphological studies on beak and feet in some birds. XV Biennial conference, IAWV, 21-22 Nov, 2017, PVNRTVU, Rajendranagar Hyderabad, <i>Pp51</i> .
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7	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Abstract presented "Participatory research on establishment of fodder nursery unit at Ragimasala village of Harapanahalli taluk, Davanagere district" 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 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, <i>Pp142</i> .
8	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Abstract presented "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" 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 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, <i>Pp118</i> .
9	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Abstract presented "Participatory research to overcome lower fat and SNF of milk in micro water shed area of Jagalur taluk, Davanagere district" 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 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, <i>P62</i> .
10	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Abstract presented "Participatory research on solving the problem of lower fat and SNF of milk in micro water shed ares of Harapanahalli taluk of Davanagere district" 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 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, <i>P96</i> .
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12	Chaitra, Y., Nagabhushana, V. and Manjunath, S.P., 2017. Milk fever in cattle-facts, myths and its management. In Vijnana Nele Souvenir, 10 th National Women's Science Congress, 6-7 th November, 2017 (Parashariyam-01). Organised by Matru Vedike (Women Scientist Forum) of Swadeshi Vijnana Andolana-Karnataka (Karnataka Unit of Vijnana Bharati) at Ramaiah College of Arts, Science and Commerce, Bengaluru.



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13	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2018. Integration of rural fodder nursery with coconut as a horticulture crop for sustainable livestock production: A participatory approach in Jagalur taluk of Davanagere district. Abstract presented In: 7 th IVEF National Conference on “Shaping Livestock Extension Advisory Services for Doubling Farmer’s Income, held at Veterinary College, Shivamogga (Karnataka) from 29-31, January, 2018, Pp131.
14	Nagabhushan, V., Veeranna, K.C., Madhavaprasad, C.B. and Manjith Kumar, B.R., 2018. Establishment of rural fodder nursery to support dairy farming: An action oriented approach in Harapanahalli taluk of Davanagere district. Abstract presented In: 7 th IVEF National Conference on “ Shaping Livestock Extension Advisory Services for Doubling Farmer’s Income, held at Veterinary College, Shivamogga from 29-31, January, 2018, Pp13.
15	Veeranna, K.C., Pushpa, G. Malagittimath, Madhavaprasad, C.B., Nagabhushan V., Vijaykumar, B. Shettar and Satyanarayana, K., 2018. Production performance of desi birds in Davanagere district of Karnataka. Abstract presented in: 7 th IVEF National Conference on “ Shaping Livestock Extension Advisory Services for Doubling Farmer’s Income, held at Veterinary College, Shivamogga (Karnataka) from 29-31, January, 2018, Pp177.
16	Pushpa, G. Malagittimath, Veeranna, K.C., Nagabhushan, V., Vijaykumar, B. Shettar, Satyanarayana, K., Madhavaprasad, C.B. and Gopala, G.T., 2018. Perceived impact of community led rural hatcheries on LIG members in Karnataka. Abstract presented In: 7 th IVEF National Conference on “Shaping Livestock Extension Advisory Services for Doubling Farmer’s Income, held at Veterinary College, Shivamogga (Karnataka), 29-31, January, 2018, Pp169.
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18	Veeranna, K.C., Pushpa, G. Malagittimath, Vijaykumar, B. Shettar, Satyanarayana, K., Madhavaprasad, C.B. and Nagabhushan, V., 2018. Backyard poultry rearing - A way forward for empowerment of rural women. Abstract presented In: 7 th IVEF National Conference on “Shaping Livestock Extension Advisory Services for Doubling Farmer’s Income, held at Veterinary College, Shivamogga (Karnataka) from 29-31, January, 2018, Pp91.
19	Tarini, N.K., Madhavaprasad, C.B., Veeranna, K.C., Nagabhushan, V. and Manjith Kumar, B.R., 2018. Management of subclinical mastitis: A pilot study through participatory research in micro-watershed areas of Davanagere district. Abstract presented In: 7 th IVEF National Conference on “Shaping Livestock Extension Advisory Services for Doubling Farmer’s Income, held at Veterinary College, Shivamogga (Karnataka) from 29-31, January, 2018, Pp92.
20	Pradeep, B.S., Venu, R., Rao, P.V. and Chengalvarayulu, V., 2017. First report of <i>Ornithonyssus bacoti</i> infestation from laboratory rats in Tirupati, Andhra Pradesh, India. XV Annual Conference of IA VPHS & National symposium at Tirupati, 11 th -13 th Oct., 2017, Pp25.



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21	Pradeep, B.S., Muralidhar, Y., Chandrakala, M., Rayulu, V.C. and Adilaxamma, K., 2017. Comparative Evaluation of <i>in-vitro</i> acaricidal activity of zinc oxide nanoparticles and curcumin zinc oxide nanoparticles against <i>Rhipicephalus (Boophilus) microplus</i> . National Conference at Tirupati, 2 nd & 3 rd Nov., 2017, Pp09.
22	Ananda, K. Javaregowda and Yasaswi Naravi, 2018. Studies on micro-filariosis in dogs of Mangalore regions of Karnataka. XXVII National Congress of Veterinary Parasitology and National Symposium 12 th to 14 th Feb., 2018, Udaipur, Pp223.
23	Ananda, K. Javaregowda and Yasaswi Naravi, 2018. Diagnosis of <i>Dirofilaria repens</i> infection in dogs Latex agglutination test – a rapid diagnostic techniques. XXVII National Congress of Veterinary Parasitology and National Symposium 12 th to 14 th Feb., 2018, Udaipur, Pp224.
24	Ananda, K. Javaregowda and Yasaswi Naravi, 2018. Immunodiagnosis of <i>Dirofilaria repens</i> infection in dogs by counter immune-electrophoresis (CIEP). XXVII National Congress of Veterinary Parasitology and National Symposium 12 th to 14 th Feb., 2018, Udaipur, Pp229.
25	Ananda, K.J., Pradeep, B.S. and Greeshma Rao, U.B., 2018. Prevalence of gastro-intestinal parasites among wild animals in around shivamogga region of Karnataka. XXVII National Congress of Veterinary Parasitology and National Symposium on 12 th to 14 th Feb., 2018, Udaipur, Pp23.
26	Ananda, K.J., Pradeep, B.S. and Greeshma Rao, U.B., 2018. Prevalence of haemoprotozoan infections in dairy cattle in and around shimoga district of Karnataka. XXVII National Congress of Veterinary Parasitology and National Symposium on 12 th to 14 th Feb., 2018, Udaipur, Pp24.
27	Ananda, K.J., Aravinda, K., Balaji, T., Greshma Rao, U.B. and Pradeep, B.S., 2018. Studies on endoparasitic infection in captive and free range wild animals of Karnataka. XXVII National Congress of Veterinary Parasitology and National Symposium on 12 th to 14 th Feb., 2018, Udaipur, Pp54.
28	Ananda, K.J., Pradeep, B.S. and Greeshma Rao, U.B., 2018. Prevalence of gastro-intestinal parasites among cattle in and around Shivamogga district of Karnataka. XXVII National Congress of Veterinary Parasitology and National Symposium on 12 th to 14 th Feb., 2018, Udaipur, Pp68.
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30	Pradeep, B.S., Greeshma Rao, U.B., Ananda, K.J., Aravinda, K. and Balaji, T., 2018. Detection of acaricidal resistance against <i>Rhipicephalus (Boophilus) microplus</i> ticks by <i>in-vitro</i> method. XXVII National Congress of Veterinary Parasitology and National Symposium on 12 th to 14 th Feb., 2018, Udaipur, Pp188.
31	Greeshma Rao, U.B., Venkatesh, S.M. and Ananda, K.J., 2018. <i>Theileria annulata</i> infection in cattle and its successful treatment with Diminazine aceturate and Oxytetracycline. XXVII National Congress of Veterinary Parasitology and National Symposium on 12 th to 14 th Feb., 2018, Udaipur, Pp193.



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32	Madhavaprasad, C.B., Tarini, N.K., Veranna, K.C. and Nagabhushana, V., 2017. Mastitis in dairy animals- cross-sectional studies in water shed villages of Davanagere district. In training programme Compendium of ‘Animal husbandry interventions in water shed development areas of districts Under Sujala-III project, Pp27-29.
33	Tarini, N.K., Madhavaprasad, C.B., Veeranna, K.C., Nagabhushan, V. and Manjith Kumar, B.R., 2018. Management of subclinical mastitis: A pilot study through participatory research in micro-watershed areas of Davanagere district. 7 th IVEF National Conference on “Shaping Livestock Extension, Veterinary College, Shivamogga (Karnataka) from 29-31, January, 2018, Pp92.
34	Shashidhara Soppimata, Karadi Manjula, Tarini, N.K., Md. Arshad, Supriya, K., Nagappa, K. and Madhavaprasad, C.B., 2018. Tuberculosis in dairy cattle vis-à-vis awareness among dairy farmers - A pilot study. 7 th IVEF National Conference on “Shaping Livestock Extension. Veterinary College, Shivamogga (Karnataka) from 29-31, January, 2018, Pp40.
35	Nagappa Karabasanavar, Shashidhara Soppimata, Supriya, K., Manjula Karadi and Prashanth, S. Bagalkote, 2018. A pilot study to characterize occupational health issues among veterinarians of Belagavi district, Karnataka state. XV Annual Conference of IAVPHS & National Symposium on ‘Intersectoral Approaches to combat zoonoses: Strategies and Challenges, 11-13 th October, 2017, Pp242-243.
36	Tarini, N.K., Madhavaprasad, C.B., Nagappa Karabasanavar, Prashanth, S. Bagalkote, Veeranna, K.C., Nagabhushana, V., Prakash, N., Manjith Kumar, B.R. and Kotresh, A.M., 2018. Molecular characterization and antimicrobial resistance of <i>Escherichia coli</i> pathotypes isolated from raw milk samples of cattle and buffalo. XV Annual Conference of IAVPHS & National Symposium on ‘Intersectoral Approaches to combat zoonoses: Strategies and Challenges, 11-13 th October, 2017, Pp278-279.
37	Nagappa Karabasanavar, Supriya, K., Manjula Karadi, Tarini, N.K., Shashidhara Soppimata, Prashanth, S. Bagalkote and Shivakumar Radder, 2018. Subclinical mastitis vis-a-vis <i>Staphylococcus aureus</i> in crossbred dairy cows. XV Annual Conference of IAVPHS & National Symposium on ‘Intersectoral Approaches to combat zoonoses: Strategies and Challenges, 11-13 th October, 2017, Pp296.
38	Veeranna, K.C. and Manjunath, L., 2018. Drought proofing dry land livestock farming- Experience of KVAFSU under Sujala III Watershed Project. National conference on “Drought management strategies” compendium of best practices adopted in drought management.
39	Veeranna, K.C., 2018. Field Experiences of implementing Sujala III project in Karnataka. IVEF National Conference on “IVEF National conference on “Shaping Livestock Extension Advisory Services (LEAS)” for doubling Farmers’ income”.
40	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Integration of forage crops in coconut farm improving productivity through Farmer participation approach at Gopalapura village of Jagalur taluk Davanagere district. Conference “Extncon-2017” conducted by Participatory Rural Development Initiatives Society (PRDIS), Hyderabad.
41	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Participatory research on establishment of fodder nursery unit at Ragimasalwada village of Harapanahalli taluk Davanagere district. Conference “Extncon-2017” conducted by Participatory Rural Development Initiatives Society (PRDIS), Hyderabad.



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42	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 areas of Harapanahalli taluk Davanagere district. Conference “Extncon-2017” conducted by Participatory Rural Development Initiatives Society (PRDIS), Hyderabad.
43	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2017. Participatory research to overcome the lower Fat and SNF of milk in micro water shed areas of Jagalur taluk Davanagere district. Conference “Extncon-2017” conducted by Participatory Rural Development Initiatives Society (PRDIS), Hyderabad.
44	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2018. Management of Subclinical mastitis – A pilot study through participatory research in micro-watershed areas of Davanagere district. IVEF National Conference on IVEF National conference on “Shaping Livestock Extension Advisory Services (LEAS)” for doubling Farmers’ income”.
45	Veeranna, K.C., Madhavaprasad, C.B., Nagabhushan, V. and Manjith Kumar, B.R., 2018. Integration of rural fodder nursery with coconut as a horticulture crop for sustainable livestock production: A participatory approach in Jagalur taluk of Davanagere district. IVEF National conference on “Shaping Livestock Extension Advisory Services (LEAS)” for doubling Farmers’ income”.
46	Jayashree, R., Roopa, T.K., Chethan, K.P., Guruprasad, R. and Shivkumar, M.C., 2017. Production of different tree fodder seedlings with suitable nursery management - Poster presentation (Abstract), In the compendium of National seminar on “Livestock resource management under changing climate scenario” organised by Division of LPM and ISAP, Faculty of Veterinary sciences and Animal husbandry, SKAUST-K, Srinagar, 17 th to 19 th May 2017, Pp181-182.
47	Jayashree, R., Guruprasad, R. and Shivkumar, M.C., 2017. A case study on performance of sheep under intensive management system, Poster presentation,(Abstract),In the compendium of National seminar on “Livestock resource management under changing climate scenario” organised by Division of LPM and ISAP, Faculty of Veterinary sciences and Animal husbandry, SKAUST-K, Srinagar, 17 th to 19 th May 2017, Pp94.
48	Jayashree, R., 2017. Livestock genetic resources and their conservation in the perspective of Agro-ecological zones in India,(Lead paper),In the compendium of XV Biennial conference and National Symposium on Role of women veterinarians in enhancement of livestock productivity, health and welfare, 21-22 Nov 2017 organized by IAWV and College of Veterinary Science, Rajendranagar, Hyderabad, Pp172-187.
49	Shettar, V.B., Pragathi, K.S., Jayashree, R. and Rudresh, B.H., 2018. Productive and reproductive performance of MalnadGidda cattle under insitu conservation (Abstract), In the compendium of XV Biennial conference and National Symposium on Role of women veterinarians in enhancement of Livestock productivity, health and welfare, 21-22 Nov., 2017, organized by IAWV and College of Veterinary Science, Hyderabad, Pp92.
50	Jayashree, R., Veeranna, K.C. and Satyanarayana, 2018. A study on growth performance of local goats under different housing management system with suitable recommendation for improving productivity” (Abstract), 7 th IVEF National conference on shaping livestock extension advisory services for doubling Farmer’s income at Veterinary College, Shimoga 29-31 st Jan 2018, Pp34.



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51	Shettar, V.B., Pragathi, K.S., Rudresh, B.H. and Jayashree, R., 2018. Performance of Malnad gidda cattle in organized farm condition, (Abstract), 7 th IVEF National conference on shaping livestock extension advisory services for doubling Farmer's income at Veterinary College, Shimoga 29-31 st Jan 2018, Pp42.
52	Nagaraj, K.M., Jayashree, R., Veeranna, K.C. and Pragathi, K.S., 2018. Intensive heifer calf rearing system for doubling farmer's income - A case study in Malnad region of Karnataka, (Abstract) 7 th IVEF National conference on shaping livestock extension advisory services for doubling Farmer's income at Veterinary College, Shimoga 29-31 st Jan., 2018, Pp35.
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54	Desai, B.A., Chidananadaih and Harish, M., 2018. Dairy farming in dry land region of Karnataka: A case study" - Abstract presented in Indian Veterinary Extension Forum - 7 th National conference on Shaping LivestockExtension Advisory Service for Doubling Farmer Income, 29 th to 31 st January 2018, Pp124-125.
55	Kavitha Rani, B., Vinay, S., Dhanlakshmi, S. and Shivashankar, 2017. Gunshot induced compound farcture injuries in a Peacock, National Congress on Wildlife Health, Indian Veterinary Research Institute, Izatnagar, UP, India, Compendium.
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57	Kavitha Rani, B., Vinay, S., Manjunatha, S.S., Ananda, K.J., Anjan Kumar, K.R. and Jayaramu, G.M., 2017. Pathological conditions in captive, semi-captive and free wild fauna in the Malnadfootlands of Western Ghats in Karnataka – A Necropsy Study, Compendium of ASVP, IAVP & ICVP International Conference-2017.
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61	Srikanth, M., Narayanaswamy, H.D., Suguna Rao, Sathyanarayana, M.L., Rathnamma Doddamane, Manjunatha, S.S. and Siddalinga Murthy, H.K., 2017. Concurrent infection of Paratuberculosis (Johne's disease) and parasitic infestation in Mandya sheep, Compendium of ASVP, IAVP & ICVP International Conference.
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69	Manjunatha, S.S., Sathyanarayana, M.L., Narayanaswamy, H.D., Suguna Rao, Shridhar, N.B., Rathnamma Doddamane, Mukortal, S.Y., Srikanth, M. and Kavitha Rani, B., 2017. Studies on evaluation of anti-diabetic efficacy of aqueous extract of <i>Muraya koenigii</i> in Streptozotocin induced Diabetic Rats, Compendium of ASVP, IAVP & ICVP International Conference.
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72	Shridhar, N.B., Kavitha Rani, B., Manjunatha, S.S., Prasad, D. Mahadeva, Sharma, B.M., Prakash, V.S. and Chetan, M., 2017. Toxicopathological studies of <i>Mimosa invisa</i> poisoning in Cattle, Compendium of ASVP, IAVP & ICVP International Conference.
73	Sheela, P., Sundareshan, S., Sudharshana, K.J., Dhanalakshmi, S. and Shambulingappa, B.E. 2018. Isolation, phenotype based identification and study of <i>in-vitro</i> antimicrobial sensitivity patterns of the bacterial agents causing bovine mastitis in and around Shivamogga (Karnataka). XXXI Annual convention of IAVMI, 29 th to 31 st Jan., 2018, Tirupati, (oral Presentation -Technical Session II).



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2	Suresh, B.N., Madhusudhan, H.S. and Basavantha Kumar, C., 2017. Feeding management of livestock during drought. Seminar on Recent Advances in Ruminant Nutrition. 2 nd Sep., 2017, Avikanagar, <i>Pp50-56</i> .
3	Balappanavar, B.R. and Nagaraju, N., 2017. A rare case of tibio tarsal fracture repair in peacock using C- Arm guided intramedullary pinning. Abstract in clinical case presentation at the Companion Animal Surgery-UG TANUVAS. 9 th Conference for Veterinary Students in Chennai-2017, Paper ID 8964.
4	Balappanavar, B.R. and Nagaraju, N., 2017. Successful surgical management of cranial cruciate ligament rupture in dog using lateral retinacular imbrications and tight rope. Third place in clinical case presentation at the Companion Animal Surgery-UG TANUVAS. 9 th Conference for Veterinary Students in Chennai-2017, Paper ID 9017.
5	Balappanavar, B.R. and Pramodh, J.K., 2017. Successful management of cutaneous tumor in compromised dog with minimmal invasive surgical strap. Abstract published in clinical case presentation at the Companion Animal Surgery-UG TANUVAS. 9 th Conference for Veterinary Students in Chennai-2017, Paper ID 9094.
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9	Chandrashekha, N., Roopadevi, Y.S., Sharada, R., Shilpa, V.T., Chandrashekhar, K.M. and Pavankumar, K.N., 2018. Pathomorphological and bacteriological study of pastuerellosis disease in rabbits. National symposium on "Innovations in Animal Health – Current Challenges and Future Prospective" and XXXI Annual Convention of IAVMI, CVSc, 29-31 st Jan., 2018, Tirupati, <i>Pp223</i> .
10	Suresh, B.N., Shivakumar, M.C., Manjunath, L., Prabhu, T.M. and Madhusudhan, H.S., 2017. Use of spent maize cob and husk as a source of roughage for ruminant livestock. National Symposium on Livestock Resource Management under changing climate scenario, 17 th to 19 th May, 2017, SKUAST-Kashmir, <i>Pp169</i> .
11	Jayashree, R., Guruprasad, R. and Shivakumar, M.C., 2017. A case study on performance of sheep under intensive management system. National Symposium on livestock resource management under changing climate scenario, 17 th -19 th May, 2017, SKUAST-Kashmir, <i>Pp94</i> .



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13	Girish, B.C., Murallidhar, Y., Adilaxmamma, K., Prasad, TNVKV, Sujatha, K., Ravindra, N.S., Amitava, Paul and Srilatha, 2017. Effect of curcumin and zinc oxide Nanoparticles on glycerol induced acute Kidney injury in rats. National Conference on emerging trends in Agrinanotechnology-2017., 2 nd -3 rd , Nov., 2017, Tirupati, <i>Pp4</i> .
14	Madhusudhan, H.S., Suresh, B.N and Umashankar, B.C., 2017. Nutritional interventions for improved maternal reproductive performance and prevention of neonatal mortality in sheep and goat. Seminar on Recent Advances in Ruminant Nutrition, 2 nd Sep., 2017, Avikanagar, <i>Pp48-49</i> .
15	Jeevan, M.N., Manjunatha, L., Shivakumar, K.R., Balaraju, B.L. and Karunakara, K.N., 2018. Entrepreneurial avenues inchaffing and silage making of fodder. 7 th IVEF National Conference on shaping Livestock Extension Advisory Services for doubling Farmer's Income, 28 th – 31 st Jan., 2018, Shivamogga, <i>Pp100</i> .
16	Kavitha, K., Puttalakshmamma, G.C., Nayanakumara, S.R., Shivakumar, V. and Manjunath, D.R., 2018. A severe infection of Babesia bigemina in a Jersey Cross bred cow. XXVII National congress on Veterinary Parasitology and National symposium on "Technologies for sustainable parasite control and redressal of detection methods directed for upliftment of rural economy", 12 th to 14 th Feb., COVAS, RAJUVAS, Udaipur, Rajasthan, <i>Pp39</i> .
17	Kotresh, A.M., Sunilchandra, U., Shrikanth Kulkarni, Siddalingeswamy Hiremath and Ravikumar, C., 2017. Ethical Issues: Alternatives for Animal Use in Education., XXVI Annual Conference, Scoiety of Animal Physiology., 21 st - 22 nd Dec., 2017, Veterinary College, Bidar, Karnataka, <i>Pp82</i> .
18	Ranganath, L., 2018. Lead Paper on "Bariatric Surgery" XV annual convention of indian society for advancement of canine practice & international symposium on emerging diseasesinnovative techniques and comprehensive overview of research developments in canine practice, 7 th – 9 th Feb., 2018, NTR College of Veterinary Science, Gannavaram, <i>Pp99</i> .
19	Ranganath, L., 2018. Wounds and their Management in Animals. 20 th Conference of International Society of Wound Management (ISWM) WOUNDCON. Annual Conference of Indian Society of Wound Management (ISWM), 16 th -18 th Feb., 2018, SDM College of Ayurveda and Hospital, <i>Pp20</i> .
20	Manjunatha, D.R., Nagaraju, N., Balappanavar, B.R., Kamalakar, G., Vani, G., Veena, P., Sureshkumar, R.V. and Vasanth, M.S., 2017. Diagnosis and surgical management of different body swellings in bovines. XXXXI Annual Congress of ISVS and National Symposium, New horizon in cancer research pertaining to 2017.
21	Manjunatha, L., Suresh, B.N., Balaraju, B.L., Jeevan, M.N. and Karunakara, K.N., 2018. Strategies for drought proofing dry land livestock farming. 7 th IVEF National Conference on shaping Livestock Extension Advisory Services for doubling Farmer's Income. 28-31 Jan., 2018, Shivamogga, <i>Pp100</i> .
22	Manjunatha, L., Suresh, B.N., Dharnesha, N.K., Naveen Kumar, G.S. and Bharath Raj, B., 2018. Performanceof starter feed fed crossbred calves in watershed area. 7 th IVEF National Conference on shaping Livestock Extension Advisory Services for doubling Farmer's Income. 28 th – 31 st Jan., 2018., Shivamogga, <i>Pp133</i> .



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24	Nagaraju, N., Balappanavar, B.R., Manjunath, D.R. and Ranganath, L., 2017. Surgical Management of pyometra in dogs - case Report Abstract published in XV annual convention of indian society for advancement of canine practice & international symposium on emerging diseases innovative techniques and comprehensive overview of research developments in canine practice, 7 th – 9 th Feb., 2018, NTR College of Veterinary Science, Gannavaram, <i>Pp235</i> .
25	Nagaraju, N., Balappanavar, B.R., Manjunath, D.R. and Ranganath, L., 2017. Surgical Management of tendoachilles rupture in Dobberman Dog-A case Report. XV annual convention of indian society for advancement of canine practice & international symposium on emerging diseases innovative techniques and comprehensive overview of research developments in canine practice, 7 th – 9 th Feb., 2018, NTR College of Veterinary Science, Gannavaram, <i>Pp236</i> .
26	Nagaraju, N. and Balappanavar, B.R., 2017. Successful management of hoof lesion in crossbred cow with the use of wooden block-A case report" Abstract in clinical case presentation at the Companion Animal Surgery-UG TANUVAS 9 th Conference for Veterinary Students in Chennai 2017, Paper ID 9245.
27	Pavankumar, K.N., Ravikumar, C. and Santhosh, C.R., 2017. Important Veterinary antidotes Dosage and the indications. An update on clinical toxicology of veterinary importance. 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp58-61</i> .
28	Pavankumar, K.N., Ravikumar, C. and Santhosh, C.R., 2017. Differentiation of symptoms Caused by Toxic materials. An update on clinical toxicology of veterinary importance, 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp44-52</i> .
29	Jayashree, R., Guruprasad, R. and Shivakumar, M.C., 2017. A case study on performance of sheep under intensive management system. National Symposium on Livestock Resource Management under changing climate Scenario, 17 th -19 th May., 2017, SKAUST-Kashmir, <i>Pp94</i> .
30	Rashmi Sharma., Girish, B.C. and Karunakkara, K.N., 2018. Porcine Cysticercosis a challenge for marginal pig farming, 7 th National conference on shaping livestock extension advisory services for doubling farmers' income. 29-31 st Jan., 2018, Shivamogga, OSI-14.
31	Ravikumar, C., Santhosh, C.R. and Pavankumar, K.N., 2017. Differential diagnosis of various chemicals/ poisons based on clinical signs. An update on clinical toxicology of veterinary importance, 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp62-68</i> .
32	Ravikumar, C., Santhosh C.R. and Pavankumar, K.N., 2017. Screening tests in Toxicology. An update on Clinical toxicology of Veterinary Importance, 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp36-43</i> .
33	Ravikumar, C., Santhosh, C.R. and Pavankumar, K.N., 2017. Treatment for important poisonings in small animals. An update on Clinical toxicology of Veterinary Importance, 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp55-57</i> .



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34	Roopadevi, Y.S., Chandrashekhar, K.M., Chandrashekhar, N., Pavan Kumar, K.N., Sharada, R., Girish, B.C. and Ravikumar, P., 2018. Sudden death of Sheep due to Clostridial Septicemia- A case report. National symposium on “Innovations in Animal Health –Current Challenges and Future Prospective” & XXXI Annual Convention of IAVMI, CVSc., Tirupati, 29 th to 31 st Jan., 2018, <i>Pp224</i> .
35	Roopa, T.K., Jayashree, R., Shivakumar, M.C., Chethan. K.P. and Sunilkumar, M.A., 2017. Production of different tree fodder seedlings with suitable nursery management. National Symposium on livestock resource management under changing climate scenario, 17 th to 19 th May, 2017, <i>Pp181</i> .
36	Santhosh, C.R., Ravikumar, C. and Pavankumar, K.N., 2017. General line of Treatment of poisoning in animals. An update on Clinical toxicology of Veterinary Importance, 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp32-35</i> .
37	Santhosh, C.R., Ravikumar, C. and Pavankumar, K.N., 2017. Treatment of important poisonings. An update on Clinical toxicology of Veterinary Importance, 7 th Sep., 2017, Veterinary College, Hassan, <i>Pp53-54</i> .
38	Shivakumar, K.R. and Manjunatha, L., 2018. Nine square mandala: A wholistic tool in livestock extension research. 7 th IVEF National Conference on shaping Livestock Extension Advisory Services for doubling Farmer’s Income., 29-31 st Jan., 2018, Shivamogga, <i>Pp173</i> .
39	Shivakumar, K.R., Manjunatha, L. and Manjunath, V.B., 2018. Farmers’ Participatory approach to adaptation of fodder chaffing. 7 th IVEF National Conference on shaping Livestock Extension Advisory Services for doubling Farmer’s Income., 29-31 st Jan., 2018, Shivamogga, <i>Pp133</i> .
40	Sunil Chandra, U., Shridhar, N.B., Jagadeesh, S. Sanganal, Narayanaswamy, H.D. and Ravikumar, C., 2017. Safety evaluation of repeated oral administration of ciprofloxacin in dual purpose chicken by histopathology., XXVI Annual Conference, Society of animal physiology., 21 st -22 nd Dec., 2017, Veterinary College, Bidar, <i>Pp154</i> .
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42	Suresh, B.N. and Prabhu, T.M., 2017. Utilization of maize cob by-products as a feed source for ruminat livestock. National Symposium on Livestock Resource Management under Changing Climatic Scenario. 24 th Annual Convention of ISAPM.17-19 th May, 2017, <i>Pp240-248</i> .
43	Suresh, B.N., Manjunatha, L., Dharnesh, N.K., Naveen Kumar, G.S. and Bharat Raj, B., 2017. Supplementation of ground maize grain and mineral mixture to improve milk solid-not-fat concnetn in dairy cattle. National Symposium on Livestock Resource Management under Changing Climatic Scenario. 24 th Annual Convention of ISAPM. 17-19 th May, 2017, SKUAST-Kashmir, <i>Pp182</i> .
44	Suresh, B.N., Shivakumar, M.C., Manjunatha, L., Prabhu, T.M. and Madhusudhan, H.S., 2017. Use of spent maize cobs and husk as a source of roughage for ruminant livestock. National Symposium on Livestock Resource Management under Changing Climatic Scenario. 24 th Annual Convention of ISAPM. 17-19 th May, 2017, SKUAST-Kashmir, <i>Pp169-170</i> .



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45	Suresh, B.N., Madhusudan, H.S. and Manjunath, L., 2017. Low milk fat and snf in dairy animals: Results of on-farm trials. Seminar on Recent Advances in Ruminant Nutrition, 2 nd Sep., 2017, New Delhi, <i>Pp1-5</i> .
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47	Chandre Gowda, C.T., Manjunath, S.P. and Chaitra, Y., 2017. Paracytic cyst, a major threat to meat industry with high public health significance. National seminar on Food adequacy and climate change: strategies for sustainable food production, 3-4 Nov., 2017, Veterinary College, Thrissur, Kerala, <i>Pp123</i> .
48	Chandre Gowda C.T., Deepak, S.J., Ravikumar, P., Roopa and Wilfred Ruban, 2017. "Effect of Flaxseed on physical-chemical, ultrastructural, microbial & sensory evaluation of functional chicken nuggets" published in compendium in National seminar "Food adequacy & ClimateChange: Strategies for sustainable food production, 3-4 Nov., 2017, Veterinary College, Thrissur, Kerala, <i>Pp123</i> .
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50	Chandrashekhar, N., Roopadevi, Y.S., Sharada, R., Shilpa, V.T., Chandrashekhar, K.M., and Pavankumar, K.N., 2018. Pathomorphological and bacteriological study of Pasteurellosis disease in rabbits. IAVMI, Veterinary College, SVVU, Tirupati, 29-31 Jan., 2018, <i>Pp223</i> .
51	Roopadevi, Y.S., Chandrashekhar, K.M., Chandrashekhar, N., Pavankumar, K.N., Sharada, R., Girish, B.C. and Ravikumar, P., 2018. Sudden death of sheep due to Clostridial septicæmia – A case report. IAVMI, Veterinary College, SVVU, Tirupati, 29-31 Jan., 2018, <i>Pp224</i> .
52	Saadath Pasha, Chandrashekhar, K.M., Sharada, R., Shashikumar, Manjunath Patil, S.P., Yogesh, N. and Chandrashekhar, N., 2018. Prevalence and control of Brucellosis in Akshayakalpa Dairy Farms in Tiptur, Karnataka. IAVMI, Veterinary College, SVVU, Tirupati, 29-31 Jan., 2018, <i>Pp248</i> .
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1	Ramesh, D., Aswathanarayanaappa, V., Chandramohan, S., Kumara Wodeyar, D.S., Prathviraj, R.H. and Chidanandiah, 2017. Analysis of serum biochemical profile in Hassan sheep of Karnataka. Published in XXVI Annual Conference of Society of Animal physiologists of India -2017 held at Veterinary college, KVAFSU, Bidar, <i>Pp118</i> .
2	Shettar, V.B., Pragathi, K.S., Jayashree, R. and Rudresh, B.H., 2017. Productive and Reproductive Performance of Malnad Gidda cattle under <i>in situ</i> conservation, National Symposium on "Role of women veterinarians in enhancement of livestock productivity, health and welfare", 21-22 Nov., 2017, Hyderabad.
3	Shettar, V.B., Pragathi, K.S., Rudresh, B.H. and Jayashree, R., 2018. Performance of Malnad Gidda cattle in an organised farm, IVEF National Conference on "Shaping Livestock Extension Advisory Services (LEAS) for doubling farmer's income", 29-31 Jan., 2018, Veterinary College, Shivamogga.





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4	Chidanandaiah, Basavaraj, A., Desai, Pavan Kumar, K., Laxman Naik and Kamal Hasan, B., 2017. Shelf life of chicken curry stored in retort pouches-A pilot study, Abstract published in Proceedings of national Seminar on “Food Adequacy & climate change: Strategies for sustainable food production” held at Thrissur, Kerala on 3 rd to 4 th November, 2017, <i>Pp157</i> .
5	Chidanandaiah, Shushanth Handage, Ramesh, D., Kamal Hasan, Somashekhar Habagonde, Laxman Naik and Suraj Kumar, 2018. Plastic Threat to Animals - An awareness. Abstract published in IVEF National Conference on “Shaping Livestock Extension Advisory Services (LEAS) for doubling farmer’s Income” held at Veterinary College, Shivamogga, 29 th to 31 st January, 2018, <i>Pp172</i> .
6	Desai, B.A., Chidanandaiah and Harish, M., 2018. Dairy farming in dry land agriculture area for doubling the farmer’s income in Karnataka. Abstract published in IVEF National conference on “Shaping Livestock Extension Advisory Services (LEAS) for doubling farmer’s Income” held at Veterinary College, Shivamogga, 29 to 31 January, 2018, <i>Pp124</i> .
7	Handage Sushant, Shivakumar, K., Chidanandaiah, Ramesh, D., Shettar, V.B. and Wodeyar Kumar, D.S., 2018. Abstract published in IVEF National Conference on “Shaping Livestock Extension Advisory Services (LEAS) for doubling farmer’s Income” held at Veterinary College, Shivamogga, 29 to 31 January, 2018, <i>Pp127</i> .
8	Ramesh, D., Aswathnarayananappa, V., Chandramohan, S., Kumar Wodeyar, D.S., Prithviraj, H. and Chidanandaiah, 2017. Analysis of serum biochemical profile in Hassan sheep of Karnataka. Abstract published in Proceedings of Society of Animal Physiologist of India, XXVI Annual conference SAPICON 2017 held at Veterinary College, Bidar, 21 to 22 December, 2017, <i>Pp118</i> .
9	Vivek, R. Kasaralikar and Santosh, P. Sarangamath, 2017. Lead paper on “Are we overdiagnosing Canine Hypothyroidism?” In Proceedings of Society of Animal Physiologist of India, XXVI Annual conference SAPICON-2017 held at Veterinary College, Bidar, 21 to 22 December, 2017.
10	Vivek, R. Kasaralikar and Santosh, P. Sarangamath, 2018. Diagnosis and Management of Dilated Cardiomyopathy (DCM) syndrome. In ISVM Conference, Bhuvaneshvar, 2018.
COLLEGE OF FISHERIES, MANGALURU	
1	Nesara, K.M., Jayaraj, E.G. and Varuna Baglodi, 2018. Influence of formulated probiotic fish diet with <i>Lactobacillus sporogenes</i> on the growth and survival of Indian major carp <i>Labeo rohita</i> . Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>Pp240</i> .
2	Amogha, K.R., Jayaraj, E.G. and Nesara, K.M., 2018. Evaluation of <i>Lactobacillus rhamnosus</i> formulated diet on growth and survival of <i>Labeo rohita</i> . Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>Pp238</i> .
3	Nesara, K.M., Jayaraj, E.G., Varuna, B. and Momitha, M., 2018. Dietary inclusion of <i>Lactobacillus sporogenes</i> on superoxide anion production, lysozyme activity and serum protein profile of Indian major carp, <i>Labeo rohita</i> challenged to <i>Aeromonas hydrophila</i> . Abstract published in the book of abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>Pp289-290</i> .



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4	Varuna Baglodi, Jayaraj, E.G., Nesara, K.M. and Amogha, K.R., 2018. Evaluation of combined effects of yeast cell wall extract and spirulina based feed on the growth and health of <i>Catla catla</i> . Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>Pp244</i> .
5	Jayaraj, E.G., Chandrakant Lingadhal, Salaskar, G.M. and Phillipose, K., 2018. Marine and estuarine fish seed resources of Uttara Kannada District, Karnataka. Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>Pp32</i> .
6	Nesara, K.M., Jayaraj, E.G. and Varuna Baglodi, 2018. Probiotic influence of <i>Lactobacillus sporogenes</i> on gut histological features of Indian major carp <i>Labeo rohita</i> . Abstract published in the book of Compendium of Abstracts of the 10 th Annual KSTA Conference on Science and Technology for Future of Humanity held at Reva University, Bengaluru during 18-19 January, 2018, <i>Pp178-179</i> .
7	Anjusha, K.V., Ganapathi Naik, M., Dharmakar, P., Ramesh, K.S. and Abhiman, P.B., 2017. Effect of cinnamon (<i>Cinnamomum verum</i>) in growth, survival, disease resistance and hematology of Indian major carp, rohu (<i>Labeo rohita</i>). Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>P321</i> .
8	Dharmakar, P., Ganapathi Naik, M., Anjusha, K.V., Ramesh, K.S and Abhiman, P.B., 2017. Effect of dietary peppermint (<i>Mentha piperita</i>) on growth, survival, disease resistance and hematology of Indian major carp, rohu (<i>Labeo rohita</i>). Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>P321</i> .
9	Pinto, N., Ganapathi Naik, M., Shankar, K.M., Naveen, K.B.T., Ramesh, K.S., Abhiman, P.B., Satish, R.P., and Rakesh, K., 2017. Evaluation of efficacy of a selected antibiotic against <i>Aeromonas hydrophila</i> in Indian major carp, <i>Catla catla</i> . Abstract published in the Book of Abstracts of the 11 th Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, <i>P332</i> .
10	Venugopal, M.N. and Malathi Shekar, 2018. Presented the activities of the Bioinformatics Centre in the XXIX BTISnet Annual Coordinators meeting held on 3-4 th Feb, 2018 at Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, TN.
11	Chandrashekhar Kademanne, Mridula Rajesh, Rajesh, K.M. and Vandana, K., 2017. Assessment of heterotrophic bacteria and total coliforms in relation with physicochemical parameters in Gurupur estuary, south-west coast of India In: 11 th IFAF, during 21-24, November at Cochin, <i>P141</i> .
12	Pramod Suvarna, Somashekara, S.R., Geetha Sasikumar, Sneha Darshan and Inchara, U.B., 2017. Reproductive Biology of Spineless Cuttlefish, <i>Sepiella innermis</i> off Karnataka Coast. In: 11 th IFAF, during 21-24, November at Cochin.
13	Manjappa, N., Somashekara, S.R., Prakash Pavadi and Harsha Naik, 2018. Evaluation of Integrated Fish Farming with Poultry and Horticulture Production in Karnataka, In: 7 th National Conference, IVEF, Shimoga.
14	Manjappa, N., Somashekara, S.R., Prakash Pavadi and Harsha Naik, 2018. Potential use of Village Tanks for Small Scale Aquaculture in Karnataka, In: 7 th National Conference, IVEF, Shimoga.



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15	Manjanaik, B., Uikey, M., Kavya, S., Veena Shetty, N. and Somashekharappa, H.M., 2018. Effect of gamma irradiation on the quality and shelf life of Suthchi Cat fish (<i>Pangasius hypophthalmus</i>), International conference on Application of radioisotopes and radiation technology, Mumbai (53).
16	Chandra, M.V., 2017. Physico-Chemical and Rheological Properties of Gelatin Extracted From the Skin of Common Carp (<i>Cyprinus Carpio</i>) Fish. 11 th IFAF, Pp515-516.
17	Supreetha, 2017. Effect of setting on the properties of proteins and gel forming ability of a few selected fish species. The 11 th International Indian Fisheries and Aquaculture Forum”, Fostering.
18	Supreetha, 2017. Development of dig labeled probes for detection of salmonella. The 11 th International Indian Fisheries and Aquaculture Forum”, Fostering.
19	Supreetha, 2017. Setting and gel forming ability of natural actomyosin (NAM) isolated from threadfin bream fish meat. The 11 th International Indian Fisheries and Aquaculture Forum”, Fostering.
20	Supreetha, 2017. Isolation of lytic phage against multidrug resistant <i>Salmonella Typhimurium</i> . The 11 th International Indian Fisheries and Aquaculture Forum”, Fostering.
21	Raju, C.V., D'Souza, P.J., Arun Kumar, P. and Lakshmisha, I.P., 2017. Antimicrobial and antioxidative impact of pomegranate peel extract on extending the shelf life of fish sausage. International conference on Recent Trends in Agriculture, Biotechnology and Food Processing, UAS, Hassan, 5th to 7th July, 2017, FTP-34, P239.
22	Raju, C.V., Lakshmisha, I.P., Arun Kumar, P. and Richa Choudhary, 2017. Study on effect of grape seed extract in enhancing the shelf life of fish sausage. 11 th IFAF. 21 to 24 November, 2017, AV OR 40, P358.
23	Rehana Raj, Raju, C.V., Lakshmisha, I.P. and Jag Pal, 2017. Illeal digestibility assay of broiler chicks fed with soybean meal and fish silage as protein supplement in poultry diet. 11 th IFAF, 21 to 24 November, 2017, AV OR 47, P362.
24	Raju, C.V., Aylwin, C., Lakshmisha, I.P. and Arun Kumar, P., 2017. Storage stability of masala coated anchovies (<i>Stelophorus commersonii</i>) dried using hybrid solar biomass drier. 11 th IFAF. 21 to 24 November, 2017, AV PO 25, P376.
25	Raju, C.V., Deepa, V.N., Arun Kumar, P. and Lakshmisha, I.P., 2017. Effect of edible coatings on the quality and shelf life of refrigerated Indian mackerel (Rastrelliger Kanagurta). 11 th IFAF, 21 to 24 November, 2017, AV PO 26, P377.
26	Raju, C.V., Lakshmisha, I.P., Arun Kumar, P. and Amitha, P. Gayatri, 2017. Study on comparative evaluation of icing and solar energy operated refrigerated system in fish vending cum display unit on the quality of marine fishes during storage. 11 th IFAF, 21 to 24 November, 2017, SF PO 40, P419.
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU	
1	Amitha Reena Gomes, 2017. Expression of fusion protein of PPRV in baculo virus system and its role as a putativeimmunogen. XV Biennial Conference and National Symposium of IAWV held on Nov. 21-22, 2017 at College of Veterinary Science, Rajendranagar, Hyderabad.
2	Sumathi, B.R., Sobharani, M., Byregowda, S.M. and Chandrakala, G.K., 2017. Innovative Approaches for prioritizing Climate Smart Livestock technologies in rural India. XV Biennial Conference and National Symposium of IAWV held on Nov. 21-22, 2017 at College of Veterinary Science, Rajendranagar, Hyderabad.



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3	Sumathi, B.R., Byregowda, S.M., Sobharani, M. and Amitha Reena Gomes, 2017. The role of veterinarians and veterinary services in Animal health and food safety surveillance in modern food production systems. XV Biennial Conference and National Symposium of IAWV held on Nov. 21-22, 2017 at College of Veterinary Science, Rajendranagar, Hyderabad.
4	Rashmi, 2017. Poster Presentation "Deficiency of Uridine Monophosphate Synthase in Breeding Bulls and Detection of Carries of Bovine Citrullinaemia In Breeding Bulls". XV Biennial Conference and National Symposium of IAWV held on Nov. 21-22, 2017 at College of Veterinary Science, Rajendranagar, Hyderabad.
5	Amitha Reena Gomes, 2017. Viral diseases of sheep and goats. In Training manual of Under Continued Veterinary Education Training Programme on "Diagnosis and control of Important Diseases of domestic animals" from 14 to 16 Sept 2017 held at KVC, Hebbal, Bengaluru.
6	Amitha Reena Gomes, 2017. Control and management of viral diseases of small ruminants with special reference to Karnataka. In training manual of Under Continued Veterinary Education Training Programme on "Refresher course on disease diagnosis management practices of livestock" from 21st to 23rd Sept 2017 held at KVC, Hebbal, Bengaluru.
7	Manjunatha, V., Sujay, Nikitha, Shivashankar, Giridhar, P. and Byregowda, 2017. Oral presentation "Hepatitis In Dhole Puppies In Captive Conditions; Wild animal disease diagnostic lab". Asian veterinary pathology congress 2017, organised at Veterinary College, Bengaluru, from 9 th to 11 th November, 2017.
8	Manjunatha, V., Roopa Satish, Shankar, Giridhar, P. and Byregowda, S.M., 2017. Oral presentation "Retrospective study of Postmortem lesions and histopathological findings in asian Koels". Asian veterinary pathology congress 2017, organised at Veterinary College, Bengaluru, from 9 th to 11 th November 2017.
9	Manjunatha, V., Roopa Satish, Muniyellappa, Giridhar, P. and Byregowda, S.M., 2017. Histological Studies of Necrotic Hepatitis in Rat Snake: A Case Report. National Congress on Wildlife Health & Annual Convention of Association of Indian Zoo and Wildlife Veterinarians (AIZWV), 06-07 January, 2017 jointly Organized by AIZWV & ICAR – IVRI, Izatnagar – 243 122 (U.P.).
10	Shivraj, M., Byregowda, S.M., Venkatesh, M., Srividya, K., Sobharani, M., Shankar, B.P., Shivshankar, B.P. and Mallinath, K.C., 2017. Molecular Characterisation of <i>Bacillus anthracis</i> isolates. XXIII Annual Convention of Indian Society for Veterinary Immunology and Biotechnology & National Conference on "Challenge in Livestock and Poultry Production – Solution with Biotechnology" at KNP College of Veterinary Science, Shirwal, Dist-Satara, Maharashtra during 6-8 April, 2017.
LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKED	
1	Siddashree, Prashant, G. Waghmare and Vivek, M. Patil, 2017. Management practices to mitigate impact of climate change in dairy cattle. XXIV th Annual Convention of ISAPM, SKUAST Kashmir, P13.
2	Venu, R., Raghuveera, D.M., Mahadev Lamani, Vivek, M. Patil, Rajeshwari, Y.B., Guruprasad, R., Siddeshwara, N.C., Abdul Mateen, K.W., Uday Kumar and Supriya, S., 2017. An analysis of the welfare practices followed at laboratory animal facilities in Bengaluru. XXIV th Annual Convention of ISAPM, SKUAST Kashmir, P18.



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3	Abdul Mateen, K.W., Vivek, M. Patil, Rajeshwari, Y.B., Uday Kumar, Siddeshwara, N.C., Raghuveera, D.M., Guruprasad, R. and Supriya, S., 2017. A study on management practices followed by horse cart (Jatka) owners in Karnataka. XXIV th Annual Convention of ISAPM, SKUAST Kashmir, <i>P</i> 69.
4	Vivek, M. Patil and Rajeshwari, Y.B., 2017. Application of free software resources in the development of an open access dairy enterprise project planning tool. XXIV th Annual Convention of ISAPM, SKUAST Kashmir, <i>Pp</i> 80-81.
5	Vivek, M. Patil, 2017. Challenges to sustainable livestock production in India. Compilation of Lead Papers, XXVI th Annual Conference of SAPI, KVAFSU Bidar, <i>Pp</i> 133-137.
6	Vivek, M. Patil, Rajshekhar, M.B. and Ambadas, 2017. Suitability of Deoni cattle to agro-climatic conditions of North Interior Karnataka. XXVI th Annual Conference of SAPI, KVAFSU, Bidar, <i>P</i> 109.
7	Vivek, M. Patil, Rajshekhar, M.B. and Ambadas, 2017. Performance of Deoni cattle under intensive conditions. XXVI th Annual Conference of SAPI, KVAFSU Bidar, <i>P</i> 109.
8	Vivek, M. Patil, Rajshekhar, M.B. and Ambadas, 2017. Reproductive performance of Deoni cattle. XXVI th Annual Conference of SAPI, KVAFSU Bidar, <i>P</i> 109.
FISHERIES RESEARCH AND INFORMATION CENTER, HESSARAGHATTA	
1	Manjappa, N., Somashekhar, S.R., Prakash Patil and Harsha Nayak, 2018. Evaluation of integrated fish farming with poultry and horticulture production in Karnataka. National Conference on Shaping livestock extension Advisory services for doubling farmers' income, 29-31 January, 2018, <i>P</i> 182.
2	Manjappa, N., Somashekhar, S.R., Prakash Patil and Harsha Nayak, 2018. Potential use of village tanks for small scale aquaculture in Karnataka. National Conference on Shaping livestock extension Advisory services for doubling farmers' income, 29-31 January, 2018, <i>P</i> 183.
3	Nagarajaiah, C.S. and Harsha Nayak, 2018. Role of State devopmnt of Fisheries, Fisheries Research and Deavlopmt organizations in capacity building of rura youths for sustainable aquaculture in Karnataka. National Conference on empowerment of rural Communities through Aquaculture, <i>P</i> 119.
FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA	
1	Jayaraj, E.G., Chandrakant Lingadhal, Govind, M. Salaskar and Phillipose, K.K., 2017. Marine and Estuarine fish seed resources of Uttara Kannada District, Karnataka. Abstracted in 11 th Fisheries and Aquaculture Forum book of abstract held from 21-24 November, 2017 at Kochi, Kerala oraganised by Asian Fisheries Society Indian Branch.
ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI	
1	Shivakumar, K. Radde, Shambulingappa, B.G. and Shivaprakasha, S.M., 2018. Animal Husbandry Polytechnics – A New Vista in Livestock Extension Delivery Systems. A Case of Animal Husbandry Polytechnic, Shiggaon. 7 th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, <i>P</i> 33.
2	Shivakumar, K. Radde, Usturge, S.M. and Prakashkumar Rathod, 2018. Yuva Chetana – An Innovative Extension Approach through Youth Mobilization. 7 th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, <i>P</i> 89.
3	Jeevan, M.N., Manjunatha, L., Shivakumar, K. Radde, Balaraju, B.L. and Karunakara, K.N., 2018, Enterpreneurial avenues in chaffing and silage making of fodder. 7 th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, <i>P</i> 100.



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4	Shivakumar, K. Radde, Manjunatha, L. and Manjunath, V. Bharamagoudar, 2018. Farmers participatory approach to adoption of fodder chaffing. 7 th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P133.
5	Shivakumar, K. Radde and Manjunath, V. Bharamagoudar, 2018. Village Level Livestock Extension Worker (VLLEW) – Concept reinvented. 7th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P167.
6	Shivakumar, K. Radde, Manjunatha, L., 2018. Nine Square Mandala : a wholisitic tool in Livestock Extension Research, 7 th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P173.
7	Shivakumar, K. Radde, Nagappa, S.K. and Manjunath, V. Bharamagoudar, 2018. Innovations Evolved/Modified under Sujala-III programme. Silage bags, Support to Downer cows by means of Mobile lift cum trevis, 7 th IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29-31, Jan., 2018, Pp179-180.

ABSTRACT OF RESEARCH PUBLICATIONS

Name of the College / Institute / Research Station	Journal		Conference/ Symposium/ Seminar/ Workshops		Total
	Int.	National	Int.	National	
Veterinary College, Bengaluru	38	100	61	177	376
Veterinary College, Bidar	26	34	08	92	160
Veterinary College, Shivamogga	10	20	04	74	108
Veterinary College, Hassan	10	25	14	52	101
Veterinary College, Gadag	02	03	00	10	15
Dairy Science College, Bengaluru	17	00	00	00	17
Dairy Science College, Kalaburagi	00	00	01	00	01
College of Fisheries, Mangaluru	17	19	00	26	62
IAH&VB, Bengaluru	02	02	00	10	14
IWVR, Doddaluvara-Kodagu	00	00	00	00	00
Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	00	00	00	00	00
FRIC, Hebbal-Bengaluru	03	00	00	00	03
FRIC, Hesara ghatta-Bengaluru	01	01	00	03	05
FRIC, Bhutnal-Vijayapura	01	00	00	00	01
FRIC, Ankola-Uttar Kannada	00	00	00	01	01
LRIC, Nagamangala-Mandyā	00	01	00	00	01
LRIC, Hallikhed-Bidar	02	00	00	08	10
LRIC, Konehalli-Tumakuru	00	00	00	00	00
BRIC, Dornalli-Yadgir	00	00	00	00	00
CRIC, Timmapur-Bagalkot	04	00	00	00	04
AHP, Konehalli-Tumakuru	00	00	00	00	00
AHP, Kunnur-Haveri	00	00	00	07	07
AHP, Kora vangala-Hassan	00	00	00	00	00
AHP, Bargi-Chamarajnagar	00	00	00	00	00
AHP, Dornalli-Yadgir	00	00	00	00	00
Total	133	205	88	460	886



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

VETERINARY COLLEGE, BENGALURU

Books

1. Diseases of the goat – Dr. P. T. Ramesh
2. Leena Gowda, Rajeswari Shome and Shrikrishna Isloor, March, 2018. Recombinant antigen based ELISA for diagnosis of Brucellosis, Lambert Academic Publishing, Düsseldorf, Germany.

Hand book

1. Dr. Jayanaik, Dr. Malathi.V., Dr. H.C. Indresh, Dr. Gopinathm, C.R. and Dr. Dharmaraj, G.Y. Krishimele-2017. Giriraja koligala nirvahane kaipidi. Department of Poultry Science, Veterinary College, Bengaluru.

Book chapter

1. H.V. Mohan, C. Nishanth, G. Leena, Wilfred Ruban, and K. Porteen, (2018). Arcobacter Sp.: An emerging food-borne zoonotic pathogen. Applied Food Science and Engineering with Industrial Applications, accepted for publication by Apple Academic Press.

Booklet

1. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. (2017). A booklet on Anthrax. Published by Department of Veterinary Public Health and Epidemiology, Veterinary College, Bengaluru.

Training manuals

1. *Yathish, H. M., Basavraj, Inamdar, Naveen Kumar, S. and Nagaraja R., 2017. Chicken Breeds for backyard poultry production. A chapter in Training manual of refresher course on "Managemental practices for safe and sustainable poultry production and disease control during 19th to 21st December, 2017, organized by KVC, Hebbal, Bengaluru.*
2. Satyanarayan K and Veeranna K C, 2018. Training Manual on “**Animal Husbandry Interventions in Watershed Development**”. 2017-2018.
3. Dr. Suma, N., Dr. Veena, N., Dr. Umashankar, B. C., Dr. Arun P Nath and Dr. Basavaraj Chittaragi. Balanced feeding concepts for dairy animals. CVE Training manual, KVC, Hebbal, Bengaluru, December 12-13, 2017.
4. Dr. Suma., N., Dr. Umashankar, B. C., Dr. Veena, N. and Dr. Arpitha, R. Feeding systems of goats for chevon and milk production. CVE Training manual, KVC, Hebbal, Bengaluru, December 12-13, 2017.
5. Dr. Umashankar B C, Dr. Suma N and Dr. Farha Yasmeen. Nutritional management of dairy cows during pre and post calving period. CVE Training manual, KVC, Hebbal, Bengaluru, December 12-13, 2017.
6. Dr. Umashankar B C, Dr. Farha Yasmeen and Dr. Suma N. Supplementary feeding strategies of sheep. CVE Training manual, KVC, Hebbal, Bengaluru, December 12-13, 2017.
7. Dr. Prabhu, T. M., 2017. Anoestrus and infertility and their alleviation by programmed nutrition. In compendium of CVEP, KVC, Bengaluru conducted during 06-08 Dec, 2017.
8. Dr. Prabhu, T. M. 2017. Utilization of alternate feed and fodder resources. In compendium of CVEP, KVC, Bengaluru conducted during 06-08 Dec, 2017.
9. Ruban, S and Indresh H.C. 2017. Poultry meat processing techniques and oppurtunities. Training programme on “Managemental practices for safe and sustainable poultry production



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- and disease control". Under CVE program me organized by Karnataka Veterinary Council, Bengaluru from 19-21, December, 2017, Pp 69-79.
- 10. Dr. P. T. Ramesh, Dr. C. Ansar Kamran C., Dr. Chetan Kumar G. K. and Dr. Soumya B., 2017. Veterinary Clinical Medicine – I (General & Systemic).
 - 11. Dr.D.Rathnamma, Dr.P.T.Ramesh (2017): Prepared training manual on 'Health and Management of sheep and goats (Kannada) for farmers.
 - 12. Dr.Shririshna Isloor (2017) , prepared Training manual on 'WHO sponsored India Multicentric Rabies Survey-2017'
 - 13. Placid E. D'Souza, P.M.Thimmareddy, G.S.Mamatha and Jaya N. Lakkundi. 2017. Training Compendium on Refresher Course on Parasitic Diseases under Continued Veterinary Education Programme for Registered Veterinary Practitioners held from 21-08-2017 to 23-08-2017 at KVC, Bengaluru.
 - 14. Placid E. D'Souza, P.M.Thimmareddy,G.S.Mamatha, Jaya N. Lakkundi and H. Dhanalakshmi. 2017. Training Compendium on "An Update on Vectors and Vector Borne Diseases" at XXI National Training Programme under CAFT held from 14th November to 04th December, 2017.
 - 15. Placid E. D'Souza, P.M.Thimmareddy, G.S.Mamatha, Jaya N. Lakkundi and H. Dhanalakshmi. 2017. A practical training manual on "Identification of Vectors and Diagnosis ofVector Borne Parasitic Diseases" in XXI National Training Programme under CAFT held from 14th November to 04th December, 2017.
 - 16. Placid E. D'Souza, P.M.Thimmareddy, G.S.Mamatha, Jaya N. Lakkundi and Dhanalakshmi.H. 2017. Training Compendium on Refresher Course on Parasitic Diseases under Continued Veterinary Education Programme for Registered Veterinary Practitioners held from 21st to 23rd August, 2017 at KVC, Bengaluru.
 - 17. Placid E. D'Souza, P.M.Thimmareddy, G.S.Mamatha, Jaya N. Lakkundi and Dhanalakshmi.H. 2017. Training Compendium on Refresher Course on Parasitic Diseases under Continued Veterinary Education Programme for Registered Veterinary Practitioners held from 12.12.2017 to 13.12.2017 at KVC, Bengaluru.
 - 18. Prakash.N, Therapeutic pharmacology of antibacterial agents-an update for judicious selection in veterinary clinical practice, Compendium of a refresher course on 'Therapeutic Pharmacology and Veterinary Toxicology'; 27.12.2017 to 29.12.2107; Pp: 1-7
 - 19. Prakash.N, NSAID's: Therapeutic pharmacology and rationale prescription in veterinary clinics, CVE training programme, Compendium of a refresher course on 'Therapeutic Pharmacology and Veterinary Toxicology'; 27.12.2017 to 29.12.2107; Dec 2017,Pp-8-15
 - 20. Santhosh.C.R, Pharmacological basis for selection of antimicrobial agents in bovine mastitis, Compendium of a refresher course on 'Therapeutic Pharmacology and Veterinary Toxicology'; 27.12.2017 to 29.12.2107 Pp -25
 - 21. Santhosh.C.R, N.Prakash, U. Sunilchandra, and P. Waghe, Clinical pharmacology of drugs employed in small animal gastroenterology, Compendium of a refresher course on 'Therapeutic Pharmacology and Veterinary Toxicology'; 27.12.2017 to 29.12.2107 Pp 62-77
 - 22. Prakash.N, An update on toxicities/poisonings in veterinary field in the state with special reference to diagnosis and antidote usage; Compendium of a refresher course on 'Therapeutic Pharmacology and Veterinary Toxicology'; 27.12.2017 to 29.12.2107 Pp-91-99
 - 23. Pavithra.B.H, Prakash, N., Rashmi, R and Santhosh C R. .'Pharmacological considerations for drug therapy in felines, Professional Efficiency development programme,pp-78-90
 - 24. Rashmi.R, 'Polydrug therapy with antimicrobials and their impact on clinical outcome' Professional Efficiency development programme, Continued Veterinary Education Programme a refresher course on: 'Therapeutic Pharmacology and Veterinary Toxicology'Pp-58-61



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 26. Dr.Jayanaik. and Dr.H.C.Indresh. 2017. Koli Sakanikeya tharabetti karyakrama. Poultry farmers training manual in collaboration with All India Poultry Development and service, Bengaluru
 27. Dr.Jayanaik. and Dr.H.C.Indresh. 2017. Adhunika mattu hittala koli sakanikeya tarabetti karyakrama. SCP-TSP training programme
 28. Dr.Jayanaik. and Dr.H.C.Indresh. 2017. Managemental practices for safe and sustainable poultry production and disease control. Refresh training for field vets along KVC, Hebbal
 29. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. "Zoonotic diseases and their prevention and control in risk groups" **for the benefit of SHG's farmers, animal attendants etc.,**
 30. **Dr.A.Muralidhara & Dr.V.Divya February 2018.Compendium of the Training programme on “Management and Diseases of Wild Animals”.**
 31. **Dr.A.Muralidhara & Dr.V.Divya. March-2018. Compendium of the training programme on “Restraint & Disease diagnosis in Wild Animals”.**

Popular articles

1. Dr. Pavan Belekeri, Dr. V. Jagadeeswary and Dr. K. Satyanarayan, 2017. Reach to dairy farming – A digital touch. 6 (7), Pashubandha e – bulletin, KVAFSU.
 2. Mohankumar, K. Satyanarayan and V. Jagadeeswary, 2017. Transportation of sheep. 6 (6), Pashubandha e – bulletin, KVAFSU.
 3. Shreyansh S H., Mohankumar S., Satyanarayan K. and Jagadeeswary V, 2017. Occupational health hazards to field veterinarians. 6 (10), Pashubandha e – bulletin, KVAFSU.
 4. Dr. Farha Yasmeen, Dr.Umeshankar B. C. and Dr. Suma, N. Nutritional management of buffaloes during transitional period. Pashubandha. 31st January 2018. 07: 01.
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 6. Manjunath Patel, Suresh Basavanagowdar, Mahadevappa D.Gouri, Prasanna S.B. and Shankarappa Bhajantri (2018). Goats diseases and their prevention. Sukhibhava Annadata, March 2018. Pp11-18
 7. Mahadevappa D.Gouri and Prasanna S.B.(2018). Classification of leguminous fodder crops and their introduction. Sukhibhava Annadata, February 2018. Pp11-18
 8. Guruprasad, R., Shilpa V.T., Prasanna S.B. and Roopa. T.K.(2017). Equipments used in piggery farming. Sukhibhava Annadata, July 2017. Pp17-21
 9. Prasanna.S.B., Shashikumar, M.G., Umashankar, B.C., Shankarappa Bhajantri and Manjunath Patel (2017). Summer management of sheep and goats. April 2017, 23-24
 10. Kamal Hasan and D.Rathnamma (2017). Control of Zoonotic diseases - In : Pashubandha e-Bulletin, Vol.6, Issue 4,April, 2017.
 11. Rathnamma D, Usharani J., Kavitha G., Veeregowda B M., Viswas K N (2017). Clostridial diseases of Poultry. In : Pashubandha eBulletin, Vol.6, Issue 5, May, 2017.
 12. Usharani J., Kavitha G., S.Islloor., Rathnamma D., Viswas K N. (2017). Lateral flow assay: a rapid diagnostic test for Infectious diseases. In: Pashubandha eBulletin, Vol.6, Issue 5, May, 2017.
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14. Kamal Hasan B and Rathnamma,D. (2017). Orf disease of small ruminants: increasing risk in Humans. In: Pashubandha, eBulletin, Vol.6, Issue 6, June, 2017.
15. Kamal Hasan, D.Rathnamma, M.A. Kshama, M.C.Anilkumar and Sumathi B R (2017). Management of Infectious diseases of monsoon season in Livestock. In: Pashubandha, eBulletin, Vol.6, Issue 7, July, 2017.
16. Kamal Hasan B and D.Rathnamma (2017). Vaccination schedule in domestic animals and birds. In: Pashubandha, eBulletin, Vol.6, Issue 9, September, 2017.
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20. Rashmi.R, B.H. Pavithra, C. R. Santhosh, and N. Prakash. Drug Interactions and toxicities associated with non- steroidial anti- inflammatory drugs , Pashubandha, 6 (10), October, 2017.
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22. Narayana Swamy, M., 2017. Samaya Paripalaneya Koshanu Samshodhanage Noble Prashasti. Varthabharathi, 09.10.2017. page 7.
23. **Narayana Swamy, M. 2017. Cinemotsavada Male Modagalu, Varthabharathi, 19.03.2018. Page 7.**
24. Nishanth, C., Mohan, H.V. and Leena, G. (2017). Vector borne zoonotic diseases. **Pashubandha monthly e-Bulletin, Vol. 06, Issue, 05.**
25. Nishanth, C., Mohan, H.V. and Leena, G. (2017). Trichinellosis an emerging meat borne zoonoses. **Pashubandha monthly e-Bulletin, Vol. 06, Issue, 08.**
26. Nishanth, C., Mohan, H.V. and Leena, G. (2017). Antibiotic residues in food animals. **Pashubandha monthly e-Bulletin, Vol. 06, Issue, 11.**

Extension brochures/leaflets published

1. Parvo viral disease in dogs.
2. Leptospirosis in dogs.
3. Rabies.
4. Dr.H.C.Indresh., Dr.Venu.R., Dr.Wilfred Ruban., Dr.Dharmaraj.G.Y. and Dr.B.L.Chidanand. Krishimele-2017. Kottige gobbara mahatva hagu nirvahane.
5. Dr.H.C.Indresh., Dr.Venu.R., Dr.Wilfred Ruban., Dr.Dharmaraj.G.Y. and Dr.B.L.Chidanand. Krishimele-2017. Adhika halu upthadanage vishesha pashu aahara.
6. Dr.B.L.Chidanand., Dr.H.C.Indresh., Dr.Venu.R., Dr.Wilfred Ruban. and Dr.Dharmaraj.G.Y. Krishimele-2017. Vividha mevina taligalu hagu mahatva.
7. Dr.B.L.Chidanand., Dr.H.C.Indresh., Dr.Venu.R., Dr.Wilfred Ruban. and Dr.Dharmaraj.G.Y. Krishimele-2017. Hasugala kottige nirmana, nirvahane, shuchitva.
8. Dr.B.L.Chidanand., Dr.H.C.Indresh., Dr.Venu.R., Dr.Wilfred Ruban. and Dr.Dharmaraj.G.Y. Krishimele-2017. Labhadayaka hainugarikege hainu rasuvina aykhe.
9. Dr.Jayanaik., Dr.H.C.Indresh., Dr.Dharmaraj.G.Y. and Dr.Anand manegar. Krishimele-2017. Koli sakanikeyalli jaivika sanrakshana kramagalu.
10. Dr.Jayanaik., Dr.H.C.Indresh., Dr.Dharmaraj.G.Y. and Dr.Anand manegar. Krishimele-2017. Meke sakanike-labhadayaka udhyama.



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11. Dr.Jayanaik., Dr.H.C.Indresh., Dr.Dharmaraj.G.Y. and Dr.Anand manegar. Krishimele-2017. Hitalalli irali nati kol
12. Dr.Jayanaik., Dr.H.C.Indresh., Dr.Dharmaraj.G.Y. and Dr.Anand manegar. Krishimele-2017. Gunamattada halu uthpadanege pancha suthragalu.
13. Dr.Jayanaik., Dr.H.C.Indresh., Dr.Dharmaraj.G.Y. and Dr.Anand manegar. Krishimele-2017. Koli motteya pramukyathe
14. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. Japanese encephalitis.
15. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. Brucellosis.
16. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. Rabies.
17. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. Vector borne zoonoses
18. Dr. Leena, G., Dr. Mohan, H.V. and Dr. Nishanth, C. Zoonoses
19. Dr.Muralidhara& Dr.Divya.V, January 2018. Leaflet on “Poisonous snakes of India”
20. Dr.Muralidhara& Dr.Divya.V, January 2018. Leaflet on “Dos and donts of snake bite treatment”.
21. Dr.Muralidhara& Dr.Divya.V, January 2018. Leaflet on “Reasons for Human and wild animals conflict”.
22. Dr.Muralidhara& Dr.Divya.V, January 2018. Leaflet on “Measures to control crop damage by wild animals”.
23. Dr.Muralidhara& Dr.Divya.V, January 2018. Leaflet on “Differences between venomous and non-venomous snakes”.
24. Dr.Muralidhara& Dr.Divya.V, January 2018. Leaflet on “Reasons for threat from wildlife to humans and domestic animals”.

VETERINARY COLLEGE, BIDAR

#	Type of publication	Title	Authored by	Month & Year
1.	Book	Scientific goat production	Channappagouda Biradar, Basavraj Awati, Prakashkumar Rathod and Anant Rao Desai	May, 2017
2.	Book	Compilation of lead papers and invited papers of “XXVI Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium” on “Physiological Innovations to Forecast the Impact of Climate Change and to Evolve Strategies for Sustainable Livestock Production”	Editors: Shrikant Kulkarni Patil N. A., Srinivas Reddy Bellur Sathisha, K. B.	Dec, 2017
3.	Booklet	Giriraja birds rearing	Biradar Satish Chandra, Prashant Waghmore, Basavraj Hiremath	February 2018



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4.	Compendium	Souvenir and Compendium of “XXVI Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium” on “Physiological Innovations to Forecast the Impact of Climate Change and to Evolve Strategies for Sustainable Livestock Production”	Chief Editor: Shrikant Kulkarni Editors: Anant Rao Desai, Channappagouda, B. Hiremath, S. Vinay P, Tikare. Kartikesh, S. M. Vijayalakshmi,	December, 2017
5.	Leaflet	Osmanabadi goat	Siddalingswamy, H., Channappagouda Biradar, Prakashkumar Rathod and Basavraj Awati	April, 2017
6.	Proceedings of the conference	Proceedings of “XXVI Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on “Physiological Innovations to Forecast the Impact of Climate Change and to Evolve Strategies for Sustainable Livestock Production”	Editors: Shrikant Kulkarni, Channappagouda B, Anant Rao Desai, Kartikesh, S. M. Dr. Patil, N. A.	Dec, 2017
7.	Training chapter	Heat desiccated Indian dairy products	Jagannatha Rao B. and Kiran M,	January, 2018.
8.	Training chapter	Market milk and milk products	. Jagannatha Rao B and Kiran M,	January, 2018
9.	Training chapter	Economic utilization of dairy byproducts	Jagannatha Rao B. and Kiran M,	January, 2018
10.	Training chapter	Value addition of livestock products for catering demands of dynamic markets	Kiran, M and Jagannatha Rao. B.	February, 2018
11.	Training chapter	Fat rich dairy products	Kiran, M. and B Jagannatha Rao	January, 2018
12.	Training chapter	Indian dairy products for western market	Kiran, M. and B Jagannatha Rao	January, 2018





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KARNAKATA VETERINARY AGRICULTURAL & FISHERIES SCIENCE & TECHNOLOGY UNIVERSITY

13.	Training chapter	Licensing and registration as per FSSAI	Kiran, M. and B Jagannatha Rao	January, 2018
14.	Training chapter	Acid coagulation for preparation of traditional dairy products	Kiran M. and Jagannatha Rao B.	January, 2018
15.	Training chapter	Packaging and preservation of dairy products	Kiran, M. and Jagannatha Rao B.	January, 2018
16.	Training chapter	Diagnosis and management of common poisonings in ruminants.	Vinay P. Tikare, Vijaykumar, M. and Sunilchandra, U.	July 2017.
17.	Training chapter	Drug-drug interactions and adverse drug reactions in veterinary practice	Prashantkumar Waghe, Vijaykumar, M. and Vinay, P Tikare.	July, 2017.
18.	Training chapter	Interventional strategies during common poisonings in ruminants.	Vinay, P. Tikare, Vijaykumar, M. and Prashantkumar Waghe	February, 2018.
19.	Training chapter	Dystocia economic effect	Bijurkar R. G.	July, 2017
20.	Training chapter	Addressing infertility problems in large ruminants	Santosh Shinde and Venkanagouda Doddagoudar	July, 2017
21.	Training chapter	Handling of maternal calving difficulties	Bijurkar R. G.	July, 2017
22.	Training chapter	Fetal dystocia in cattle and buffaloes	Bijurkar R. G.	July, 2017
23.	Training chapter	Management of uterine torsion	Venkanagouda Doddagoudar	July, 2017
24.	Training chapter	Handling of prolapse of genitalia in bovines	Venkanagouda Doddagoudar	July, 2017
25.	Training chapter	Repeat breeding and its management in dairy animals	Tandle M.K.	July, 2017
26.	Training chapter	Fetotomy in large animals	Basavaraj Hallikhed	July, 2017
27.	Training chapter	Januvarugalli bedege sambandapatta samassegalu, chikitse haagu pariha aropaya galu	Venkangoud Doddagoudar, Tandle M.K. and Bijurkar R. G.	Feb, 2018
28.	Training chapter	Therapeutic management of retain fetal membrane in cattle and buffalo	Dhabale R.B	July, 2017
29.	Training chapter	Retention of placenta (physio pathology) in cattle and buffalo	Dhabale R.B	July, 2017



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30.	Training chapter	Profitable dairy farming knowledge of heat symptoms and advantage of artificial insemination in cattle	Dhabale R.B	Feb, 2018
31.	Training chapter	Fermented and frozen Indian dairy products	Jagannatha Rao B. and Kiran M.	January, 2018
32.	Training chapter	Dairy calculations	Kiran, M. and Jagannatha Rao B.	January, 2018
33.	Training manual	Processing and value addition of milk	Vivek Patil M, Jagannatha Rao, B. and Kiran. M	January, 2018.
34.	Training manual	Innovative approaches for sustainable livelihood through animal husbandry	Kareem, M.A., Shahaji Phand, Prakashkumar Rathod, Channappagouda Biradar and Anant Rao Desai	February, 2018
35.	Training manual	Innovative technologies in livestock production	Patil, N.A., Ravindra, B.G. and Channappagouda, B	February, 2018
36.	Training manual	Management of parturition and postpartum complications in ruminants	Bijurkar, R. G. Tandle M. K. and Dhabale R. B.	July, 2017
37	Traning manual	Recent update on diagnosis and treatment of common diseases in ruminants	Ravindra B. G, Patil, N. A. Vivek Kasaralikar and Sandeep H.	July, 2017
38.	Traning manual	Innovative technologies in livestock production	Patil, N. A. Ravindra B. G. and Channappagouda B.	Feb, 2018
39.	Traning manual	Animal health practices	Dilipkumar, D.	Feb, 2018

VETERINARY COLLEGE, SHIVAMOGGA

#	Name of The Scientist, Title, Year and Date of Publication, Publisher/Remarks
1	Santosh Sajjan and Ashish Paturkar, 2017, Porcine hydatidosis- A non obligatory parasitic cyclo zoonosis, LAMBERT Academic Publishing ISBN:978-3-330-32949-2.
2	Nagappa Karabasanavar, Shivakumar Radde, Shabulingappa BG and Shrikant Kovalli, 2017-18, Leaflet on 'Subclinical mastitis', Sujala III (Gadag)
3	Dr R Jayashree, Propagation of tree fodder varieties and its importance, Training Manual of CVE by KVC, Bengaluru, 21 st September 2017



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4	B.A. Desai and Chidanandaiah and P. Kadakadiyavar (2018) "Meat production in Sheep and Goat" Chapter in Book on Sheep and Goat Rearing, published by Dr. K.C.Veeranna, Dean, Veterinary College Shivamogga, PP:25
5	<i>Various articles of Dr.N.B.Shridhar were published in popular dailies of Karnataka each week in :Vijayavani, Prajavani, Vijaya Karnataka, Krushi munnade etc</i>
6	Lokesh L.V, Shridhar N.B and Prashantkumar Waghe (2017). Common ailments of cattle and its therapeutic management. SCP TSP Training programme 6-8-2017
7	Lokesh L.V, Shridhar N.B and Prashantkumar Waghe (2017). Low SNF problem in cattle and therapeutic management
8	Shridhar, N., Sunilchandra and Sundareshan. Use of Medicinal Plants in Cattle.
9	N.B. Shridhar. Low SNF and remedial measures.
10	POPULAR ARTICLE: Dr.B.E.Shambulingappa, 2017. 'Sookshmanu jeeva nirodhakagala sadbalake mattu samudaya aarogya' in Negila Mitra Monthly, 7:2017 published by University of Agricultural and Horticultural Sciences, Shivamogga.

Sl.No.	Name of The Scientist	Title	Folders/Books	Year and Date of Publication	Publisher/Remarks
Folders					
1	Tirumalesh, T., Venkatesh, M.M., Satheesha, G.M. and Bharat Bhushan, M.	Silage	Folder	2017	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK
2	Tirumalesh, T., Venkatesh, M.M., Satheesha, G.M. and Bharat Bhushan, M.	Management of animals in drought	Folder	2017	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK
3	Venkatesh, M.M., Tirumalesh, T., Satheesha, G.M. and Bharat Bhushan, M.	Scientific Goat Rearing	Folder	2017	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK
4	Tirumalesh, T., Satheesha, G.M., and Bharat Bhushan, M. and Venkatesh, M.M.,	Scientific Sheep Rearing	Folder	2017	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK
Books					
5	Tirumalesh, T., Venkatesh, M.M., Satheesha, G.M., Bharat Bhushan, M. and Umesh, B.U.	Dairying	Book	2017	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK



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6	Tirumalesh, T., Venkatesh, M.M., Satheesha, G.M., Bharat Bhushan, M. and Umesh, B.U.	Scientific Goat and Sheep Rearing	Book	2017	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK
7	Tirumalesh, T., Umesh, B.U., Venkatesh, M.M., Satheesha, G.M. and Bharat Bhushan, M.	Scientific Poultry Rearing	Book	2018	Dean, Veterinary College Shivamogga sponsored by Dept. Of social welfare, GoK

VETERINARY COLLEGE, HASSAN

1) Folders & Leaflets :

#	Name of the Scientist	Title	Year & date of publication	Publisher / Remarks
1.	Chandrashekhar, K. M., Shivakumar, M., Ravikumar, P., Ravikumar, C., Sharada, R., Puttalakshmamma, G. C., and Vasnth M. S	Zooanthroposes in Veterinarians (Booklet)	2017	Under SCP-TSP grants of KVAFSU
2.	Chandrashekhar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani	Peste des petits ruminants (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
3.	Chandrashekhar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani	Brucellosis (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
4.	Chandrashekhar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani	Black Quarter (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
5.	Chandrashekhar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani	Anthrax (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
6.	Chandrashekhar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani	Haemorrhagic Septicaemia (Leaflet)	2017	Under SCP-TSP grants of KVAFSU





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7.	Chandrashekhar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Dodamani.	Swine Fever & Swine Influenza (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
8.	Dhanalakshmi, H., Hemanth Gowda, K. and Madhusudan, H.S.	Modern rabbit farming (Training manual)	3 rd -4 th Nov, 2017 and 24 th – 25 th Jan, 2018	DST-SEED Division, GOI
9.	Naveen Kumar, G.S., Shrikanth Dodamani., Madhusudan, H.S. and Hemanth Gowda, K.	Characteristics of Hallikar breed (Folder)	2017	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
10.	Naveen Kumar, G.S., Shrikanth Dodamani., Madhusudan, H.S. and Hemanth Gowda, K.	Feeding of indigenous cows (Folder)	2017	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
11.	Naveen Kumar, G.S., Shrikanth Dodamani., Madhusudan, H.S. and Hemanth Gowda, K.	Field performance of Hallikar breed project details (Folder)	2017	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
12.	Naveen Kumar, G.S., Shrikanth Dodamani., Madhusudan, H.S. and Hemanth Gowda, K.	Diseases affecting elite indigenous cattle (Folder)	2017	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
13.	Naveen Kumar, G.S., Shrikanth Dodamani., Madhusudan, H.S. and Hemanth Gowda, K.	Atlas on Amruthmahal cattle	2018	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
14.	Naveen Kumar, G.S., Shrikanth Dodamani., Madhusudan, H.S. and Hemanth Gowda, K.	Role of indigenous cattle in organic agriculture and their management. (Training Manual)	2018	Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan
15.	Guruprasad, R., Shivakumar, M.C., Jayashree, R. and Prasanna, S.B.	Useful equipments in pig rearing (Folder)	2017	Dept. of LPM, Veterinary College, Hassan
16.	Guruprasad, R., Shivakumar, M.C., Jayashree, R. and Prasanna, S.B	Modern management practices in dairy farming (Folder)	2017	Dept. of LPM, Veterinary College, Hassan
17.	Guruprasad, R., Shivakumar, M.C., Shilpa, V.T. and Roopa, T.K.	Scientific rearing and management of sheep and lambs (Folder)	2017	Dept. of LPM, Veterinary College, Hassan



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18.	Hemanth Gowda, K., Ranganath, L., Sejian, V., Giridhar, K. and Naveen Kumar, G.S.	Livestock and climate change (workshop compendium)	25.02.2018	ICAR-NICRA
19.	Puttalakshamma	Diagnosis of haemopprotozoan disease of cattle (Leaflet)	2017	Dept. of Veterinary Parasitology, Veterinary College, Hassan
20.	Puttalakshamma	Diagnosis of trematode infections in ruminants (Leaflet)	2017	Dept. of Veterinary Parasitology, Veterinary College, Hassan
21.	Puttalakshamma	Diagnosis of gastrointestinal heminth parasites of dogs (Leaflet)	2017	Dept. of Veterinary Parasitology, Veterinary College, Hassan
22.	Puttalakshamma	Anthelmintic resistance in small ruminants (Leaflet)	2017	Dept. of Veterinary Parasitology, Veterinary College, Hassan
23.	Puttalakshamma	Myiasis (Leaflet)	2017	Dept. of Veterinary Parasitology, Veterinary College, Hassan
24.	Ravikumar, P., Girish, B.C., Manjunatha, L. and Karunakara, K.N.	Sub clinical mastitis (Leaflet)	2018	Dean, Veterinary College Hassan.
25.	Shivakumar, M., Chandrashekhar, K. M., Shivakumar, V. and Shrikanth Doddamani	Foot and mouth disease (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
26.	Shivakumar, M., Chandrashekhar, K. M., Shivakumar, V. and Shrikanth Doddamani	Blue Tongue (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
27.	Shivakumar, M., Chandrashekhar, K. M., Shivakumar, V. and Shrikanth Doddamani	Rabies (Leaflet)	2017	Under SCP-TSP grants of KVAFSU
28.	Shivakumar, M., Chandrashekhar, K. M., Shivakumar, V. and Shrikanth Doddamani	Fasciolasis & Theileriosis (Leaflet)	2017	Under SCP-TSP grants of KVAFSU





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29.	Shrikant Dodamani	Goat breeds of Karnataka (Folder)	2017	SCP GRANTS
30.	Ravikumar, C.	An update on Clinical toxicology of Veterinary Importance (Workshop Compendium)	June, 2017	Department of Veterinary Pharmacology and Toxicology, Veterinary College, Hassan
31.	Ravikumar, C.	First Aid treatment and health management in dairy animals (Workshop Compendium)	August, 2017	Department of Veterinary Pharmacology and Toxicology, Veterinary College, Hassan
32.	Ranganath, L., Manjunatha, L., Girish, B.C., Guruprasad, R., Balaraju, B.L. and Karunakara, K.N.	Scientific rabbit farming (Training manual)	2018	Published by EEC, Veterinary college, Hassan
33.	Chethan, K.P., Roopa, K.T., Manjunatha, L., Suresh, B.N., Dharanesh, N.K., Naveen Kumar, G.S. and Bharath Raj.	Green fodder production (leaflet)	2017	KWDP-II , Sujala-III Project Veterinary college, Hassan
34.	Manjuntha, L., Suresh, B.N., Dharanesh, N.K., Naveen Kumar, G.S. and Bharath Raj, B.	Uses of fodder trees in livestock rearing. (leaflet)	2017	KWDP-II , Sujala-III Project Veterinary college, Hassan
35.	Suresh, B.N., Manjunatha, L., Dharanesh, N.K., Naveen Kumar, G.S. and Bharathraj, B.	Feed production using locally available ingredients for dairy cattle (leaflet)	2017	KWDP-II , Sujala-III Project Veterinary college, Hassan
36.	Suresh, B.N., Manjunatha, L., Dharnesha, N.K., Naveen Kumar, G.S. and Bharath Raj, B.	Uses of calf starter feed (leaflet)	2017	KWDP-II , Sujala-III Project Veterinary college, Hassan
37.	Suresh, B.N., Shivakumar, M.C. and Manjunatha, L.	Formulation of Complete feed using maize cob (leaflet)	2018	Veterinary college, Hassan



RURAL ORIENTED & FARMER FRIENDLY

38.	Roopa, K.T., Manjunatha, L., Suresh, B.N. and Blaraju.B.L.	Uses of fodder trees in dairying (leaflet)	2018	Veterinary College, Hassan.
39.	Madhusudhan, H.S.	Nutrient deficiency in chicken. Modern Poultry Farming-Enterpreneurial training.	19-24, June.2017	Veterinary College, Hassan

2) *Chapters, Training Manual, publication in magazines and dailies:*

1. Shilpa, V.T., Girish, B.C., Manjunatha, K.P. and Roopa Devi, Y.S. 2017. Diseases of poultry with reference to fungal diseases and mycotoxicosis. Central Poultry Development and Training Institute, Hessarghatta. Bengaluru. Training programme on advanced poultry rearing. 19-06-2017 to 24-06-2017, Veterinary College, Hassan., Pp 38-43.
2. Shivakumar, V., Akshatha, G. M., Chamaraja, P. and Kavitha, K. 2017. Common diseases in poultry. In training manual on scientific poultry rearing published by EEC, Veterinary College, Hassan., Pp 38-40.
3. Shivakumar, V., Kavitha, K., Nayanakumar, S.R., 2017. Common diseases of rabbit. In training manual on Scientific rabbit farming published by EEC, Veterinary College, Hassan., Pp 27-30.
4. Puttalakshmamma, G.C. 2018. Parasitic diseases of Poultry. In training manual on Improved poultry rearing for Entrepreneurship published by Veterinary College, Hassan., Pp 22-26.
5. Shivakumar, V., Akshatha, G.M., Aswathanarayananappa. V., 2017. Diseases in poultry and their control. In training manual on Scientific Poultry Farming published by EEC, Veterinary College, Hassan., Pp 32-34.
6. Vinuthan, M.K., Devaraja Naik, H.and Ravikumar, P. 2017. *Kattheya Halemba Amrutha*. Pushu Siri, Pp19-21.
7. Ravikumar, P., Girish, B.C., Shilpa, V.T. and Roopa Devi, Y.S., 2017. Molagalalli kanisuva rogagalu mattu avugala maranottara pariksheya mahatva. Training programme on “*Aadhunika Mola Sakanike*” organized by Veterinary College, Hassan under the DST project on rabbits during 24-25th January 2018, Veterinary College, Hassan., Pp 26-29
8. Ravikumar, P., Girish, B.C., Shilpa, V.T. and Roopa Devi, Y.S., 2018. Molagalalli maranottara pariksheya mahatva. Training programme on “*Vyjanika Mola Sakanike*” organized by Veterinary College, Hassan under EEC during 15-17th February 2018, Veterinary College, Hassan. Pp 28-31.
9. Girish, B.C. and Manjunatha, L., 2018. Mola sakaanikeyallli kandubaruva samanya thodakugalu. Training programme on “*Vyjanika Mola Sakanike*” organized by Veterinary College, Hassan under EEC during 15-17th February 2018, Veterinary College, Hassan., Pp 32-34.
10. Chandrashekhar, G. and Satheesha, S.P., 2017. Handigalalli Erysipelas roga, Negilu Miditha., 3(8): Pp 20.
11. Chandrashekhar, G. and Satheesha, S.P. 2017. Danagalli Johne's Rooga/Paratuberculosis Negilu Miditha, 3(9): Pp 27.



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12. Shilpa, V.T., Girish, B.C., Manjunatha, K.P. and Roopa Devi, Y.S., 2017. Diseases of poultry with reference to fungal diseases and mycotoxicosis. Central Poultry Development and Training Institute, Hessarghatta. Bengaluru. Training programme on advanced poultry rearing. 19-06-2017 to 24-06-2017, Veterinary College, Hassan. Pp 38-43.
13. Ravikumar, P., 2018. Management of common diseases affecting indigenous cattle. Training Programme on “Hallikar taliya samrakshane hagu nirvahane” organized by Veterinary College, Hassan, Pp 23-26.
14. Ravikumar, P. 2017. Clean milk production and importance of management of mastitis. Training Program on “Sudharita Pashupalana Tarabeti”. Organized by EEC, Pp 33-35.
15. Ravikumar., P, Girish, B.C. Shilpa, V.T, and Roopa Devi Y.S. 2018. Rabbit diseases and importance of postmortem examination. Training programme on “Aadhunika Mola Sakanike” organized by Veterinary College, Hassan under the DST project on rabbits during 24-25th January 2018.
16. Ravikumar, P., Girish, B.C., Shilpa, V.T. and Roopa Devi Y.S., 2018. Importance of postmortem examination in rabbits. Training programme on “Vyjanika Mola Sakanike” organized by Veterinary College, Hassan under EEC during 15-17th February 2018
17. Ravikumar, P., 2017. Nasal Schistosomiasis – an annoyance to livestock. *Negilamiditha.*, 3(4): 28.
18. Ravikumar, P., 2017. Prolapse of uterus in pregnant livestock, *Negilamiditha.*, 3(5): 29.
19. Ravikumar, P., 2017. How to manage retention of foetal membranes?: *Negilamiditha*, 3(6): 28.
20. Ravikumar, P., 2017. Skin diseases affecting livestock: *Negilamiditha*, 3(7): 28.
21. Ravikumar, P., 2017. Failure of milk let down in cattle: *Negilamiditha*, 3(8):28.
22. Ravikumar, P., 2017. Ocular problems of livestock – negligence is unwarranted, *Negilamiditha*, 3(10):28.

VETERINARY COLLEGE, GADAG

Popular Article

1	Somashekhar Habagonde, Ashok Walikar, Shrikanth D Kalburgi, Chidanandaiah and Mahantesh M. Nekar (2018) Importance of dry fodder in livestock and its enrichment, <i>Pashubandha</i> , 7(3): 7-9.
2	Shivakumar and Dhanaraj Girimal (2018) Management of Vaginal Prolapse (in Kannada), <i>Krishi Munnade</i> 31(3): 32-33
3	Mahantesh M. Nekar, (2017), Use of organic manures in improving soil health, <i>Krishi Munnade</i> , 30(7): 12-14
4	Kamal Hasan B, Rathnamma D., and Chidanandaiah (2018) Recent Incidences of Glanders in India- An awareness, <i>Pashubandha</i> , 7(1): 6-8
5	Kamal Hasan B, Chidanandaiah and Kumar Wodeyar (2017) Mycotoxins in livestock: Prevention and treatment, <i>Pashubandha</i> , 6(7):4-5
6	Dr. Sindhu K*, Dr. Santhosh. P. S. and Dr. Vivek R. Kasralikar. Emerging concepts in veterinary practice. <i>Pashubandha</i> . 2017. Volume No: 06 Issue: 11.





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7	Sindhu K*, Vijayakumar Unki, Pradeep Chawhan, Santhosh S. and Vivek R K. herbal treatment for the management of reproductive disorders in ruminants. Pashubandha. 2017. Volume No: 06 Issue: 12.
8	Sindhu K*, Pradeep Chawhan, Vijayakumar Unki, Santhosh S. and Vivek R K. Pedicure for ruminants! How best one can manage foot ailments in winter? Pashubandha. 2018. Volume No: 07 Issue: 01.

Training Manual

Name & designation	Training/ Practical Manual for UG course.
Sindhu, K. Asst. Prof. (OPG), Dept. of VCC, VCG	1. Unit 4: Zoo Animals Production Management. 2. Unit-5: Poultry Production Management 3. Unit-6: Incubation and Hatchery Management For the courses of Department of Livestock Production and Management

DAIRY SCIENCE COLLEGE, KALABURAGI

1	Training manual on fermented milk product by the Dept. of Dairy Microbiology	:	01
2	Training leaflet on fermented milk product by the Dept. of Dairy Microbiology	:	01
3	Training leaflet on value added traditional dairy product by the Dept. of Dairy Technology	:	01
4	Training leaflet on value added bakery and dairy product by the Dept. of Dairy Technology	:	01
5	Training leaflet on value added millet based product by the Dept. of Dairy Technology	:	01

COLLEGE OF FISHERIES, MANGALURU

#	Authors, Year of Publication, Title of Paper & Conference / Seminar / Symposia / Workshops etc., with Venue, Date & page nos.
1	Jayaraj, E.G. and Shivakumar Magada, 2017. Hand book on Aquaculture Technologies. Published by the Directorate of Extension, KVAFSU, Bidar. Pp. 65.
2	Jayaraj, E.G., 2017. Mud crab farming techniques. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 50-51.
3	Jayaraj, E.G. and Chandrakant Lingadhal, 2017. Fish farming in sea cages. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 52-55.
4	Shivanandamurthy, H.S., Surendranath and Abhiman, 2017. Culture of pangassius fish. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 14-16.
5	Basavaraja, N., 2017. Carp seed rearing. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 1-5.



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6	Basavaraja, N., 2017. Amur carp – a new breed of common carp (Kannada). In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 10-13.
7	Basavaraja, N., 2017. Genetically Improved Farmed tilapia (GIFT). In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 17-20.
8	Ganapathi Naik, M (2017). Small scale fish culture. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 6-9.
9	K.S .Ramesh and Abhiman (2017).Common diseases of fish and their control. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp. 45-49.
10	Ganapathi Naik, M (2017). Ornamental fish production. In: Aquaculture Technologies (Eds. E.G. Jayaraj and Shivakumar Magada), Directorate of Extension, KVAFSU, Bidar. Pp.21-23.
11	K.S .Ramesh, Ganapathi Naik, M, Satish Poojari and Inchara, U.B (2017). Identification of diseases of freshwater fish and their prevention. <i>A training manual in Kannada</i> . Published by the Dept. of Aquaculture, College of Fisheries, Mangalore
12	Satish Poojar., Inchara, U.B., Ganapathi Naik, M and K.S.Ramesh(2017). Parasitic diseases of fishes. <i>A brochure Kannada</i> . Published by the Dept. of Aquaculture, College of Fisheries, Mangalore
13	M N Venugopal .2017. College of Fisheries, Mangaluru: A premier Institute for Quality Fisheries Education. In. Golden Jubilee Souvenir, Dept of Fisheries, Govt of Karnataka.
14	Chandrashekhar Kademanne, Mridula Rajesh, K. M. Rajesh and K. Vandana, 21-24, November, 2017. The 11 th Indian Fisheries and Aquaculture Forum, Cochin
15	Raju, C.V., and Lakshmis, I.P. (2018). Success story on fish vending cum display unit (English and Kannada Language). 33rd Annual Workshop ICAR-AICRP on PHET, 23rd to 25th January 2018, Junagadh Agricultural University, Junagadh, Gujarat.

INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

Books, training manuals, popular articles, leaflets etc.

1. Pocket folder titled “Product Brochure”, Biological Production Division.
2. Leaflet titled “Product Brochure”, Biological Production Division.
3. Brochure titled “Vaccines and Diagnostics” Biological Production Division.
4. Dr. K. Sripad a popular article “Anthrax in animals” published in Soogadu March-April 2017.
5. Dr. K. Sripad a popular article “Lantana poisoning in sheep” published in Kuri Mitra Dec., 2017.
6. Dr. K. Sripad a popular article “Chandaragi harmful to cattle” published in Prajavani 20.2.2018.
7. Dr. Ganesh Hegde a popular article “Cattle health with Jaikai”– series 7 published in Spice India monthly Magazine, March 2017.
8. Dr. Ganesh Hegde a popular article Spices for animal wellness too published in series 10 Spice India, March 2017.
9. Dr. Ganesh Hegde a popular article “Spice for animal wellness Thulasi” published in Spice India, April 2017.
10. Dr. Ganesh Hegde a popular article “Potbelly in calves” published in Hosa digantha, April, 2017.
11. Dr. Ganesh Hegde a popular article “Poultry management in summer” published in Hosa digantha May, 2017.



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12. Dr. Ganesh Hegde a popular article Spice for animal wellness Asafoetida published in Spice India May, 2017.
13. Dr. Kavitha, Lateral flow assay: A rapid diagnostic test for infectious diseases, Clostridial diseases of poultry and Biosensors for veterinary pathogens in Pashubandha, monthly e-Bulletin, Veterinary College, Bengaluru Volume No. 06, Issue: 05, Newsletter dated: 31st May, 2017.
14. Dr. Kavitha, Published the article “*Chappe roga bandare saave gati*” in Kannada daily newspaper “Kannada Prabha” on Tuesday 13-06-2017.
15. Dr. Ganesh Hegde a popular article “*Pranijanya Maanava Rogaglu*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) July, 2017.
16. Dr. Ganesh Hegde a popular article “*Jaanuvaru hotteyallondu samruddha hullugavalu*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) July, 2017.
17. Dr. Ganesh Hegde a popular article Spices for animal wellness too published in series 11, Spice India, July, 2017
18. Dr. Sumathi, B.R., Kamalasan, Rathnamma, D., M.A. Kashma, M.C. Anil Kumar - “Management of infectious diseases of monsoon season in livestock” in Pashubandha, Vol 6. Issue, 07th July 2017.
19. Dr. Ganesh Hegde a popular article “*Ginnada haalu amruta karuvigu (sa)hita*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) August, 2017.
20. Dr. Ganesh Hegde a popular article Spices for animal wellness too published in series 12, Spice India, August, 2017.
21. Dr. Ganesh Hegde a popular article “*Beeladire maasu anthaddenilla trasu*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) August, 2017.
22. Dr. Ganesh Hegde a popular article “*Kecchalu baavu hainugaarara novu*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) September, 2017.
23. Dr. Ganesh Hegde a popular article “*Rabies roga janamadhyama*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) September, 2017.
24. Dr. Ganesh Hegde a popular article “*Saavayava haalu utpaadane*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) October, 2017.
25. Dr. Ganesh Hegde a popular article “*Jaanuvarugalige yuriya apaayakaariyalla*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) October, 2017.
26. Dr. Ganesh Hegde a popular article “*Hindi kadime needi hechu haalu hindi*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) November, 2017.
27. Dr. Ganesh Hegde a popular article “*Naayi saakane*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) December, 2017.
28. Dr. Ganesh Hegde a popular article “*Saakunaayigala poshane*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) January, 2018.
29. Dr. Ganesh Hegde a popular article “*Mevina achu jaanuvaarugalige mechu*” published in Prajavaani, 12.02.2018.
30. Dr. Ganesh Hegde a popular article “*Kurigalalli chadarangi gidada vishabadhe*” published in Vijayavaani, 20.02.2018.
31. Dr. Ganesh Hegde a popular article “*Naayigala sonkurogagalu*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) February, 2018.
32. Dr. Ganesh Hegde a popular article “*Naayigala roga tade mattu lasike*” published in Janamadhyama (Uttara Kannada Zillamattada Dinapatrike) February, 2018.
33. Dr. Sobha Rani, A leaflet was prepared on Classical swine fever in English and Kannada



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INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

Training Manuals

1. Dr. A. Muralidhara and Dr. V. Divya, February 2018. Compendium of the Training programme on “Management and Diseases of Wild Animals”.
2. Dr. A. Muralidhara and Dr. V. Divya, March-2018. Compendium of the training programme on “Restraint and Disease diagnosis in Wild Animals”.

Leaflet/Bulletin/ Folders:

1. Dr. Muralidhara and Dr. Divya, V., January-2018. Leaflet on “Poisonous snakes of India”.
2. Dr. Muralidhara and Dr. Divya, V., January-2018. Leaflet on “Dos and donts of snake bite treatment”.
3. Dr. Muralidhara and Dr. Divya, V., January-2018. Leaflet on “Reasons for Human and wild animals conflict”.
4. Dr. Muralidhara and Dr. Divya, V., January-2018. Leaflet on “Measures to control crop damage by wild animals”.
5. Dr. Muralidhara and Dr. Divya, V., January-2018. Leaflet on “Differences between venomous and non-venomous snakes”.
6. Dr. Muralidhara and Dr. Divya, V., January-2018. Leaflet on “Reasons for threat from wildlife to humans and domestic animals”.

LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA

<i>Sl. No.</i>	<i>Name of The Scientist</i>	<i>Title</i>	<i>Year and Date of Publication</i>	<i>Publisher/Remarks</i>
1	Siddalinga Murthy, H.K. Sathish, K.B.	Artificial Insemination in Sheep	2017-18	LRIC(S) Nagamangala
2	Siddalinga Murthy, H.K. Sathish, K.B.	Dry Fodder Enrichment	2017-18	„
3	Siddalinga Murthy, H.K. Sathish, K.B.	Silage making and its uses	2017-18	„
4	Siddalinga Murthy, H.K. Sathish, K.B.	Mandy Sheep- Pride of Karnataka	2017-18	„
5	Siddalinga Murthy, H.K. Sathish, K.B.	Fodder Production	2017-18	„



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LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI

a) Training Manuals:

#	Month & Year	Authors	Title of the Training Manual
1	2017	M.S. Rudraswamy	Vaignanika Koli sakanike
2	2017	M.S. Rudraswamy	Kelasada anubhava- prayogika Kukkuta palane
3	2017	M.S. Rudraswamy	Januvarugalige Mevu utpadane

b) Popular Articles:

#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	2017	Aditya, M.S. Rudraswamy, Shivakumar and Mohan	Uttama koligala gunalakshanagalu	Krishimithra April 2017 Pp10-12
2	2017	M.S. Rudraswamy and Vijayalaxmi	Koli mottegala rakshane matthu sangrahane	Krishimithra April 2017 Pp14-15
3	2017	M.S. Rudraswamy and Sunitha, K.M.	Motte pudi thayarike	Krishimithra April 2017 Pp14-16
4	2017	Shivakummar Radder, M.S. Rudraswamy and Shambulngappa, B.G.	Asampradayaka aharagalu	Pashusiri, August- Sept.

c) Leaflets:

#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	2018	M.S. Rudraswamy	Amrithamahal- Namma hemmeya thali	Pamphlet
2	2018	M.S. Rudraswamy	Januvarugalige maraka roga- kecchalu bavu nirvahane	Pamphlet
3	2018	M.S. Rudraswamy	Rasamevu-Hainu rasugalige kuditta hasiru mevu	Pamphlet

LIVESTOCK RESEARCH AND INFORMATION CENTER, DORNALLI

1	Health and Artificial Management in Dairy Cows	Annadata Sukheebhava – April, 2018
2	Sheep Rearing – Livelihood for Rural Economy	Annadata Sukheebhava – April, 2018
3	Hydroponics Fodder in Dairy	Pashusiri – July, 2018
4	Livestock Insurance	Annadata Sukheebhava – August, 2018





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STATE ANIMAL & FISHERIES RESEARCH INSTITUTE
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CANINE RESEARCH AND INFORMATION CENTER, THIMMAPUR, BAGALKOT

1	Dr. Mahesh S Dodamani Dr. Venkanagoudar Doddagoudar Dr. Channappagouda Biradar Shri Suresh Kumar	Handbook on Mudhol Hound rearing	15.08.2017	Published by the CRIC Timmapur, Mudhol
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FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU

a) Books

#	Year	Authors	Title of the Book	Name of the Publishers
1	June, 2017	K.N. Prabhudeva N. Chethan S.M. Shivaprakash	<i>Matsya vigyana paaribhashika padakoshha</i>	DOE, KVAFSU, Bidar
2	2017	Vijaykumar, S. Rajanna, K. B.	<i>Graamena raithara susthira abhivrudhigaagi meenu krushi</i>	DOE, KVAFSU, Bidar
3	2018	Vijaykumar, S. Rajanna, K.B. Majappa, N. Vijaykumar, S. Atanur Chandrakanth Lingadal	<i>Alankarika menu Saakanike</i>	FRIC, Bhutnal, Vijayapura

b) Training Manuals

#	Month & Year	Authors	Title of the Training Manual
1	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	Aquaculture-An opportunity for investment and entrepreneurship
2	August, 2017	K.C. Veeranna K.B. Rajanna N. Manjappa	Fisheries interventions in watershed development districts under SUJALA-III
3	December, 2017	Suguna Rao N. Chethan K.B. Rajanna	Practical Manual on Aquatic animal diseases, health care and management. VPP 322 (1+1)



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c) Leaflets/ Bulletins/Folders

#	Type of publication	Month & Year	Authors	Title of the Publication
1	Profile	2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	FRIC profile
2	Leaflets	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Dynamite balasi meenu hidiyuvudara dushparinaamagalu</i>
3	Leaflets	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Krushi upauthpannagalannu balasi uthpathi hechisuva thanthrikathe</i>
4	Leaflets	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Mishra meenu saakane</i>
5	Leaflets	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Meenu uthpathi mele neeru mathu mannina gunagala prabhava</i>
6	Leaflets	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Meenu marigala uthpadane, saakane mathu saagaane</i>
7	Leaflets	June, 2017	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Malegaaladalli meenugarike nishedha</i>
8	Leaflets	June, 2017	S. Vijay Kumar Manjappa, N. Vijay, S. Athnur Rajanna, K.B. Harishchandra Jadav Chethan, N.	Aquarium
9	Leaflets	February, 2018	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Krishihondadalli meenugarike</i>
10	Leaflets	February, 2018	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Kola haagu keregalalli meenugaarike</i>
11	Leaflets	February, 2018	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Meen marigala uthpaadane, paalane haagu saakanike</i>
12	Leaflets	February, 2018	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Mannu haagu neerina raasayanika gunavisheshagalu haagu meenugarikayalli avugala pramukhyathe</i>
13	Leaflets	February, 2018	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Menu kolagalli kandubaruva kalegalu haagu avugala niyanthrane</i>
14	Leaflets	February, 2018	K.N. Prabhudeva K.B. Rajanna N. Chethan	<i>Samagra meenukrishi</i>



RURAL ORIENTED & FARMER FRIENDLY
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d) Others: Success stories submitted for publication:

#	Name of the Scientist	Farmer details	Title
1	K.N. Prabhudeva	Shri. Jagadeesh Ningappa Managing Director Go Fish, Beguru, Bengaluru – 68	Re-circulatory Aquaculture System
2	K.N. Prabhudeva	Shri. Kedarnath Reddy Managing Director Sashimi Foods Pvt. Ltd., Bengaluru	Sale of fresh fish and prawns, value added fish production and its sale, Production of food level ice and its sale
3	K.N. Prabhudeva	Shri. Mujamil Basha Devarahatti village Davanagere Tq & Dist.	Integrated fish farming
4	K.N. Prabhudeva	Shri. Ravindra Karvi Jaddina Hittilu, Kundapura	Fish rearing in cage
5	K.N. Prabhudeva	Shri. Satyanarayana Amble J.P. Nagar, Bengaluru	Aqua-phonics
6	K.N. Prabhudeva	Smt. Savita Basant Patil Mahalakshmiipuram, Bengaluru	Sale of Ornamental Fishes
7	K.N. Prabhudeva	Shri. Shyam Ayyappa Aqua Ventures, Siddapur, Kodagu	Modular Pre-fabricated Enclosures
8	K.N. Prabhudeva	Shri. Sunny D'Souza Mangaluru	Prawn rearing by Biofloc Technology
9	K.N. Prabhudeva	Shri. Tahir Ahmed Khan Bengaluru	Ornamental fish rearing
10	K.B. Rajanna	Shri. Pavan Bin Mahadevayya, P. Mukadahalli village Chamarajanagara	Integrated fish farming in ponds – A <i>Yashogathe</i>

FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

1. N. Manjappa, 2017. Growing fish in farm ponds of water shed area. Success stories on livelihood through production of livestock and fisheries. 23-24
2. N. Manjappa and Prakash Pavadi. 2017. *Gokatteyalli Mishra Meenu Saakane*. Pashusiri 12.
3. N. Manjappa, Ravindragowda Patil and Harsha Nayak, 2017. Amur common carp- Superior breed realsd by KVAFSU, Bidar – Booklet
4. N. Manjappa, Ravindragowda Patil, Harsha Nayak, Manjunath Gowda K.S. and Priyanka Gowda, 2017. *Amur Sudharita Samanya Gende Meenu Tali* – leaflet
5. Manjappa N and Chethan N., 2017. Fish culture for sustainable development of rural farmers sub topic on Fish seed production, rearing and transportation.





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FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA

#	Type of publication	Year of the Publication	Authors	Title of Paper
BOOK				
1	Book	2017-18	Vijayakumar, S.	Scientific Fish Farming
2	Book	2017-18	Vijayakumar, S. Vijay, S. Atnur Y. Basavaraju	Fish Culture in Ponds (ICAR sponsored under Unnat Bharath Abhihan)
3	Book	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad	Dictionary For Fisheries Science(English To Kannada) Abhihan Published by Vijayalakshmi Prakashana, Mysore.
4	Book	2017-18	Vijayakumar, S. Co-Editors Vijay, S. Atnur N. Manjappa K.B. Rajanna Chandrakanta Lingadal	Ornamental Fish Culture On the occasion of Mega Fisheries Exhibition-2018
TRAINING MANUALS				
1	Training manuals	September-2017 (5 batches)	Editors Vijayakumar, S.	Training programme on “Skill development in Agriculture and Agriculture allied” under NR LM
2	Training manuals	March 2018 (5 batches)	Vijayakumar, S.	Training programme on “Skill development in Agriculture and Agriculture allied” under NR LM
POPULAR ARTICLES				
1	Popular articles	April-2017	Vijayakumar, S. Vijay, S. Atnur	Fish Rearing with zero budget – Published in Kannada Prabha Daily News Paper
2	Popular articles	April-2017	Vijayakumar, S. Vijay, S. Atnur	Minerals and vitamins in Fish Feed - Published in Kannada Prabha Daily News Paper
3	Popular articles	June-2017	Vijayakumar, S.	Soil and Water Management in Fish Ponds – Published in Annadata
4	Popular articles	Jan 2018	Vijayakumar, S.	Fish varieties (Negila Midita)
5	Popular articles	Feb 2018	Vijayakumar, S.	Fish and Prawn Rearing (Negila Midita)



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LEAFLETS

1	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Cage Culture of Fish
2	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Ornamental Fish Culture
3	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Rearing Fish Seed in Jumbo hapa
4	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Culture of Pungasius
5	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Culture of Tilapia
6	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Life Saviour of Gappies
7	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Use of Agricultural Wastes in Enancing Fish Culture
8	leaflets	2017-18	Vijayakumar, S. Vijay, S. Atnur Ganesh Prasad H.S. Jadev	Rearing of Fish Frie in Pen culture

FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

#	Authors, Year of Publication, Title of Paper & Conference / Seminar / Symposia / Workshops etc., with Venue, Date & page nos.
BOOK	
1	Vijayakumar S (Eds.), K.B. Rajanna, Manjappa N, Vijaya Athnur and Chandrkant Lingadhal (Co-eds), 2018. Ornamental fish farming. Mega Matsyamela-2018,FRIC(I),Vijayapura.pp37 (Kannada)
SCIENTIFIC ARTICLES	
1	Jayaraj E.G and Chandrakant Lingadhal,2018.Open Sea cage fish farming In: Aquaculture Technologies(Eds.E.G.Jayaraj and Shivakumar Magad) .Director of Extension, KVAFSU, Bidar Pp 52-54 (Kannada)



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2	Chandrakant Lingadhal, 2018. Aquarium management In: Ornamental fish farming (Eds. Vijayakumar S (Eds.), K.B. Rajanna, Manjappa N,Vijaya Athnur and Chandrkant Lin gadhal(Co-eds). Mega Matsyamela-2018,FRIC(I),Vijayapura.Pp.35-37 (Kannada)
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COURSE MANUAL

1	Chandrakant Lingadhal and Basavakumar K.V,2017 .Course Manual on “ Meenu Sakanike” for diploma agriculture students
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LEAFLETS

1	Chandrakant Lingadhal,2018.Brackish water shrimp farming & Management leaflet
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SUCCESS STORIES

1	Tiger Shrimp farming :Mr.Venkatesh Lokappa Gaonkar,Pujageri,Ankola :Narration by Chandrakant Lingadhal
2	Tiger Shrimp farming :Mr.Beeru H Gouda,Belambar,Ankola : Narration by Chandrakant Lingadhal

KRISHI VIGYAN KENDRA, MANGALURU, DAKSHINA KANNADA

a) Popular Articles

#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	May, 2017	Rashmi S.,Rohini B.S., Harish Shenoy	Insect as food	Krishibhimba, Vol 12, page No. 16-17
2	Ocotber, 2017	Harish Shenoy	Boran: A important Micronutrient	Krishibhimba, Vol 10(10), page No. 48-49
3	December, 2017	Harish Shenoy, Rashmi S	Improved cultivation practices for blackgram in costal Karnataka	Krishi Bhimba Vol No. 16(12) P.No. 3-5

b) Leaflets/ Bulletins/Folders

#	Type of publication	Month & Year	Authors	Title of the Publication
1	Folder	November, 2017	Rashmi, L., Ganesh Prasad, L. and Shivakumar Magada	Scientific Goat farming in Costal region

ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI

a) Popular Articles:

#	Month & Year	Authors	Title of the article	Name of the Magazine/ Bulletin (Vol No:Page No)
1	2017	Adithya M.S. Rudraswamy Shivakumar, R.	Uttama Koligala Gunalakshanagalu	Krishimithra April -2017 PP 10-12



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b) Leaflets:

1. Modern Dairy Farming – Dr. Shivakumar, R.
2. Fodder Crops and Guide – Dr. Shivakumar, R.

ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON, HAVERI

#	Name of the Scientist	Title	Year & date of publication	Publisher / Remarks
1	Shivakumar, K. Radde	Popular article on “Precautions while grazing livestock”	11-07-2017	Prajavani daily
2	Nagappa Karabasannavar Shivakumar, K. Radde Shambhulingappa, B.G. Srikant Kowalli	Folder on “Sub- clinical Mastitis”	2017	AHP, Shiggaon, Sujala 3





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V. FINANCE AND BUDGET

RECEIPTS AND PAYMENTS FOR THE YEAR 2017-18 (ACCOUNTS)					
RECEIPTS			EXPENDITURE		
#	Particulars	Plan	#	Particulars	Plan
A-I	GEN FUNDS - STATE GOVERNMENT		A-I	GENERAL FUNDS	
1	Non Plan Grants		1	Salaries & Recurring Charges	
a)	Grant-in-Aid-Salary	5658.00	a)	General Administration	2320.80
b)	Grant-in-Aid- General	2141.00	b)	Teaching	7646.45
c)	Grant-in-Aid-Pensions	1841.00	c)	Research	782.32
d)	Scheduled Caste Sub-Plan	300.00	d)	Extension	90.43
e)	Tribal Sub-Plan	100.00		Total 1 (a+b+c+d)	10840.00
	Sub Total Non-Plan		10040.00		
2	Plan Grants				
a)	Grant-in-Aid- General	-			
b)	Scheduled Caste Sub-Plan	-			
c)	Tribal Sub-Plan	-			
	Sub Total Plan		-		
3	Education, Extension and Research		2	Capital Expenditure	4000.00
a)	Other Expenses	3650.00	3	Expenditure under SCSP Grants	300.00
b)	Scheduled Caste Sub-Plan	200.00	4	Expenditure under TSP Grants	100.00
c)	Tribal Sub-Plan	150.00	5	State Adhoc Projects	0.00
	Sub Total Capital		4000.00	TOTAL (1 to 5)	15240.00
4	RKVY Projects				
5	State Adhoc Projects				
	Sub Total State Adhoc Projects		0.00		
	TOTAL -I		14040.00		
II	Grants from Other Agencies		0.00	II	Schemes Sponsored by other Agencies
III	Government of India Grants		0.00	III	Government of India Schemes
IV	ICAR, New Delhi			IV	ICAR, New Delhi
a)	Development Grants	0.00	a)	Development	0.00
b)	Co-ordinated Projects	0.00	b)	ICAR Co-ordinated Projects (75%)	0.00
c)	Krishi Vignyana Kendra	0.00	c)	ICAR Co-ordinated Projects (100%)	0.00
	TOTAL IV (a to c)		0.00	d)	Krishi Vignyana Kendra 0.00
V	INTERNAL RESOURCES			TOTAL IV (a to d)	
a)	Income from Fees	300.00			
b)	Income from University Property	135.70			
c)	Other Misc. Income	764.30			
	TOTAL (V)		1200.00		
	TOTAL (A)		15240.00	TOTAL A:	15240.00



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B	FOUNDATION FUNDS		B	FOUNDATION FUND	
C	DEPT & SUSPENCE A/C	10190.8 0	C	DEBT & SUSPENCE A/C.	10190.80
	TOTAL (A+B+C)	25430.8 0		TOTAL (A+B+C)	25430.80
	Add : Opening Balance	0.00		Add : Closing Balance	0.00
	GRAND TOTAL	25430.8 0		GRAND TOTAL	25430.80



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BIDAR

VI. GENERAL ADMINISTRATION

1) Teaching & Non-Teaching Recruitment & Promotion Particular information for the year-2017-18

Non-Teaching staffs Recruitment for the year-2017-18

#	Cadre	Direct Recruitment	Compensatory Appointment
1	Non-Teaching	05	01

2) Superannuation

List of Superannuated Employees of KVAFSU, Bidar between 01-04-2017 to 31-03-2018

#	Employer Name Designation & Place	Empl. No.	Date of Birth	Date of Superannuation	Retirement dated
TEACHING STAFF					
1	Dr. M.R. Jayashnakar Professor & Head Veterinary College Hebbal, Bengaluru	1060	17.05.1955	17.05.2017	31.05.2017
2	Dr. A. Krishna Swami Professor & Head Veterinary College Hebbal, Bengaluru	1019	19.05.1955	19.05.2017	31.05.2017
3	Dr. Nashimha Murthy Dean Dairy Science College Hebbal, Bengaluru	-	01.06.1955	31.05.2017	31.05.2017
4	Mr. Krishnappa Associate Professor Dairy Science College Hebbal, Bengaluru	1068	04.06.1955	04.06.2017	30.06.2017
5	Dr. T. Muneguada Associate Professor Veterinary College Hebbal, Bengaluru	1074	07.06.1955	07.06.2017	30.06.2017
6	Dr. Y. Basawaraju Professor & Head FRIC, Bhutanal-Vijayapura	1035	01.08.1955	31.07.2017	31.07.2017
7	Dr. K. Chandrapal Sing Registrar KVAFSU, Bidar	1041	08.08.1955	08.08.2017	31.08.2017





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8	Dr. R. Gidiyan Gloridas Professor & Head Veterinary College Hebbal, Bengaluru	1046	14.08.1955	14.08.2017	31.08.2017
9	Dr. Lalit Achoth Professor & Head Dairy Science College Hebbal, Bengaluru	1065	20.08.1955	20.08.2017	31.08.2017
10	Dr. H.N. Narashimha Murathy Professor & Head Veterinary College Hebbal, Bengaluru	1081	10.09.1955	10.09.2017	30.09.2017
11	Dr. M.S. Vasantha Dean Veterinary College, Hassan	1112	16.09.1955	16.09.1955	30.09.2017
12	Dr. B. Hanumantappa Professor College of Fisheries Mangaluru	1049	12.10.1955	12.10.2017	31.10.2017
NON-TEACHING STAFF					
1	Mr. Naseguda Laboratory Assistant Veterinary College, Hebbal, Bengaluru	1914	01.06.1957	31.05.2017	31.05.2017
2	Mr. S.G. Hegde Superintendent College of Fisheries Mangaluru	1202	05.06.1957	05.06.2017	30.06.2017
3	Mr. F.M. Hunasikatti Senior Field Assistant Animal Husbandry Polytechnic Shiggao-Haveri	1662	10.06.1957	09.06.2017	30.06.2017
4	Mrs. C.R. Rangalakshimma Senior Telephone Operator Veterinary College, Bengaluru	1239	12.06.1957	12.06.2017	30.06.2017
5	Mr. Muddahanumayya Senior Farm Labour Veterinary College Hebbal, Bengaluru	1388	06.08.1957	06.08.2017	31.08.2017
6	Mrs. S. Nanjamma Senior Janitor Grade-1 Veterinary College Hebbal, Bengaluru	1415	08.08.1957	08.08.2017	31.08.2017
7	Mr. Maddurappa Senior Poultry Attender Grade-1 Veterinary College Hebbal, Bengaluru	1467	08.08.1957	08.08.2017	31.08.2017



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HEBBAL, BENGALURU

8	Mr. A. Munisawmy Attender Veterinary College Hebbal, Bengaluru	1351	04.09.1957	04.09.2017	30.09.2017
9	Mr. Obaleshappa Senior Animal Attender Grade-1 Veterinary College Hebbal, Bengaluru	1425	28.09.1957	28.09.2017	30.09.2017
10	Mr. K.G. Murati Senior Poultry Attender Grade-1 Veterinary College Hebbal, Bengaluru	1470	25.09.1957	25.09.2017	30.09.2017
11	Mrs. Nalini, K. Superintendent (G) College of Fisheries, Mangaluru	1211	19.12.1957	19.12.2017	31.12.2017
12	Smt. Jayamma Senior Farm Labour Veterinary College Hebbal, Bengaluru	1645	22.12.1957	22.12.2017	31.12.2017
13	Mr. M.B. Somalingayya Field Assistant Veterinary College Hebbal, Bengaluru	1420	01.01.1958	31.12.2017	31.12.2017
14	Mr. Lakshmaiah Senior Animal Attender Veterinary College Hebbal, Bengaluru	1438	12.01.1958	12.01.2018	31.01.2018
15	Mr. P.K. Chikkanna Senior Animal Attender LRIC, Konehalli-Tipaturu	-	01.02.1958	31.01.2018	31.01.2018
16	Mr. Ganraj Patil Laboratory Assistant Veterinary College, Bidar	-	15.02.1958	15.02.2018	28.02.2018

**List of Officers/Employees Retired in Institute of Animal Health & Veterinary Biologicals,
Hebbal, Bengaluru**

1	Mr. Ibrahim Sheriff Superintendent	1053	01.06.1957	31.05.2017	31.05.2017
2	Mr. G. Nagendararav Pawar Junior Engineer	1116	22.07.1957	22.07.2017	31.07.2017
3	Mr.N.R.Nanjundeguda Junior Engineer	1119	12.08.1957	12.08.2017	31.08.2017
4	Mr. Chhenneguda, K.N. Operator	1125	02.08.1957	02.08.2017	31.08.2017
5	Mr. P.A. Shashidhar Senior Laboratory Technician	1024	02.02.1958	02.02.2018	28.02.2018
6	Mr. S.M. Kadadi Driver (HV)	1299	01.03.1958	28.02.2018	28.02.2018



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VII. INFRASTRUCTURE DEVELOPMENT

Details of progress of works under taken by KVAFSU during the year 2017-18

#	Name of Work	Tender Amount in Lakhs
1	Survey and Fencing of land including a Gate at the entrance at LRIC, Golahalli	20.00
2	Formation of WBM Road and side drains at LRIC, Golahalli, Mulubagil, Kolar	25.00
3	Construction of Office building at LRIC, Golahalli, Mulubagil, Kolar	30.00
4	Drilling of Borewells and Augmentation of electricity supply at LRIC, Golahalli, Mulubagil, Kolar	5.00
5	Construction of Livestock shed at LRIC, Golahalli, Mulubagil, Kolar	15.00
6	Construction of Cell for Director SC/ST at KVAFSU, Bidar	70.00
7	Construction of Girls Hostel at Veterinary College Bidar	91.00
8	Construction of Boys Hostel at Veterinary College Bidar	86.66
9	Construction of Animal shed, Cattle Shed building Sheep and Goat shed at Veterinary College, Gadag	70.00
10	Construction of Animal shed, Cattle Shed building Sheep and Goat shed at Veterinary College, Athani	70.00
11	Construction of Administrative, Training and Library building at Animal Husbandry Polytechnic Konehalli	95.00
12	Construction of Dining Hall with Modernization of Kitchen to Hostel Block at Animal Husbandry Polytechnic, Konehalli	62.00
13	Construction of Administrative Training and Library Building at Animal Husbandry Polytechnic, Shiggaon	95.00
14	Construction of Dining Hall with Modernization of Kitchen to Hostel Block at Animal Husbandry Polytechnic, Shiggaon	62.00
15	Construction of Main entrance gate at Veterinary College Gadag	42.00
16	Construction of Girls Hostel additional block &(GH) Animal Husbandry Polytechnic, Konehalli	35.00
17	Construction of Boys Hostel Additional Block at Animal Husbandry Polytechnic, Konehalli	35.00
18	Construction of Feed manufacturing unit at Animal Husbandry Polytechnic, Konehalli	24.00
19	Construction of Cattle shed at Animal Husbandry Polytechnic, Konehalli	10.00
20	Construction of Buffalo shed at Animal Husbandry Polytechnic, Konehalli	10.00
21	Construction of Piggery shed at Animal Husbandry Polytechnic, Konehalli	15.00
22	Construction of Girls Hostel at Animal Husbandry Polytechnic, Shiggaon	35.00
23	Construction of Boys Hostel Additional Block at Animal Husbandry Polytechnic, Shiggaon	35.00
24	Construction of Compound wall at Animal Husbandry Polytechnic, Shiggaon	18.00



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25	Construction of Feed manufacturing unit at Animal Husbandry Polytechnic, Shiggaon	10.00
26	Construction of Cattle shed at Animal Husbandry Polytechnic Shiggaon	10.00
27	Construction of Buffalo shed at Animal Husbandry Polytechnic, Shiggaon	10.00
28	Repair of Existing building fish processing unit Technology wing at College of Fisheries Mangaluru	35.70
29	Renovation and Modernization to existing Boys hostel at Veterinary College Hebbal, Bengaluru	8.00
30	Construction of Main Entrance gate at Veterinary College, Shivamogga	32.00
31	Providing Basket ball court at Veterinary College, Shivamogga	20.00
32	Construction of Feed manufacturing unit at Veterinary College, Shivamogga	8.00
33	Renovation of girls hostel ground floor toilet at Veterinary College, Bidar	10.00
34	Providing electrical wiring to Kalpataru Hostel at Veterinary College, Bidar	7.00
35	Renovation of toilet block at Kalpataru Hostel at Veterinary College, Bidar	13.00
36	Renovation of Dining hall and painting of Kalaptaru Hostel at Veterinary College, Bidar	5.00
37	Repair of girls hostel old block at College of Fisheries, Mangaluru	5.00
38	Construction of retaining wall along the main College building at Dairy Science College, Kalaburagi	6.50
39	Providing water proof treatment over Boys Hostel at Dairy Science College, Kalaburagi	12.00
40	Renovation and modernization Boys hostel at Dairy Science College, Hebbal, Bengaluru	10.00
41	Renovation and modernization to Boys hostel at Veterinary College, Hebbal, Bengaluru	10.00
42	Construction of Wing wall and Gate to the newly built Canteen Building at Veterinary College, Bidar	3.15
43	Providing water supply line to the existing storage tank at LRIC(Deoni), Hallikhed	5.00
44	Providing meter cubical to the existing transformer at KVAFSU, Bidar	5.00
45	Construction of compound wall back side quarters at Dairy Science College, Mahagaon Cross, Kalaburagi	14.95
46	Asphalting of road in front of Residential Area, Girls Hostel and towards Chandranagar village, miscellaneous item at Dairy Science College Mahagaon Cross, Kalaburagi	14.50
47	Construction of compound wall chandranagar village at Dairy Science College Mahagaon Cross, Kalaburagi	14.80
48	Providing UGD line from Dairy Science College to main open drain at Veterinary College, Bengaluru	7.00
49	Construction of compound wall for semen centre and Animal holding shed at Veterinary College, Hebbal Campus, Bengaluru	13.75
50	Drilling and commissioning of new borewells (2Nos) at Dept. of ILFC Veterinary College, Hebbal Campus, Bengaluru	6.45
51	Drilling and commissioning of new borewells 4 Numbers at LRIC, Konehalli	11.00



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52	Repair of B type quarters (B-14 & B-150 at Hat Hill College of Fisheries, Mangaluru	14.72
53	Repair of quarters 2 Nos at Hat Hill College of Fisheries, Mangaluru	14.30
54	Repair and renovation of A type quarter and construction of compound wall at Hat Hill College of Fisheries, Mangaluru	14.70
55	Construction of compound wall to Deans Quarters at Veterinary College, Gadag	14.90
56	Providing Basket ball court at Veterinary College, Shivamogga (Second Call)	20.00
	Total	1442.08