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# KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY

Nandinagar, BIDAR - 585 226, Karnataka

13<sup>th</sup>

*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, Kunnur-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  
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## 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  
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## 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 of or his nominee not below the rank of Joint Secretary

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

Director of Animal Husbandry & Veterinary Services Govt. of Karnataka, Bengaluru

Director of Fisheries, Govt. of Karnataka, Bengaluru

President, Karnataka Veterinary Council, Bengaluru

Registrar of the University - Member Secretary

**Other Members** : Mr. Iresh, B. Anchatageri  
Mrs. Lumbini Goutam  
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. Chandrashekar Rao  
Dr. (Mrs.) R. Kalpana Shastri



## OUR INSTITUTIONS

### 1. Colleges

- 1) Veterinary College, Hebbal, Bengaluru, established in 1958
- 2) Veterinary College, Nandi Nagar, Bidar, established in 1984
- 3) Veterinary College, Shivamogga, established in 2006
- 4) Veterinary College, Hassan, established in 2007
- 5) 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



## OFFICERS OF THE UNIVERSITY DURING THE PERIOD (2017- 2018)

|    |   |  |
|----|---|--|
| 1  | Vice-Chancellor, KVAFSU, Bidar                  | <b>Dr. R.V. Prasad</b><br><b>Dr. H.D. Narayanaswamy</b>                              |
| 2  | Registrar, KVAFSU, Bidar                        | <b>Dr. H. Shivananda Murthy</b>  |
| 3  | Director of Extension, KVAFSU, Bidar            | <b>Dr. S.M. Shivaprakasha</b><br><b>Dr. U.S. Biradar</b>                             |
| 4  | Director of Research, KVAFSU, Bidar             | <b>Dr. S.M. Usturge</b><br><b>Dr. B.V. Shivaprakash</b>                              |
| 5  | Director of Instruction (PGS), KVAFSU, Bidar    | <b>Dr. Nadeem Fairoz</b><br><b>Dr. S.M. Usturge</b>                                  |
| 6  | Controller of Examinations, KVAFSU, Bidar       | <b>Dr. M.M. Appannavar</b>   |
| 7  | Director of Student Welfare, KVAFSU, Bidar      | <b>Dr. Yashwanth Kumar</b>   |
| 8  | University Librarian, KVAFSU, Bidar             | <b>Dr. U.S. Jadhav</b>   |
| 9  | Dean, Veterinary College, Bidar                 | <b>Dr. B.V. Shivaprakash</b><br><b>Dr. N.A. Patil</b>                                |
| 10 | Dean, Veterinary College, Bengaluru             | <b>Dr. H.N. Narasimhamurthy</b><br><b>Dr. Placid, E. D'Souza</b>                     |
| 11 | Dean, Veterinary College, Shivamogga            | <b>Dr. K.C. Veeranna</b>   |
| 12 | Dean, Veterinary College, Hassan                | <b>Dr. M.S. Vasanth</b><br><b>Dr. L. Ranganath</b>                                   |
| 13 | Dean, Veterinary College, Gadag                 | <b>Dr. V. Girish Kumar</b><br><b>Dr. H.D. Narayanaswamy</b><br><b>Dr. R. Nagaraj</b> |
| 14 | Dean, Dairy Science College, Bengaluru          | <b>Dr. H.M. Jayaprakash</b>  |
| 15 | Dean, Dairy Science College, Kalaburagi         | <b>Dr. H. Manjunatha</b>   |
| 16 | Dean, College of Fisheries, Mangaluru           | <b>Dr. M.N. Venugopal</b>  |
| 17 | Director, IAH and VB, Hebbal, Bengaluru         | <b>Dr. S.M. Byregowda</b>  |
| 18 | Director, IWVR, Doddaluvara, Kodagu             | <b>Dr. Ganesh Udupa</b><br><b>Dr. A. Muralidhara</b>                                 |
| 19 | Head of Division-Pre and Para Clinical Sciences | <b>Dr. Placid, E. D'Souza</b>  |
| 20 | Head of Division-Clinical Sciences              | <b>Dr. M. Narayana Bhat</b>  |
| 21 | Head of Division-Animal and Poultry Sciences    | <b>Dr. M.R. Jayashankar</b><br><b>Dr. C.S. Nagaraj</b>                               |
| 22 | Head of Division-Fisheries Science              | <b>Dr. Gangadhar Gowda</b>   |
| 23 | Head of Division-Dairy Science                  | <b>Dr. H.M. Jayaprakash</b><br><b>Dr. D.B. Puranik</b>                               |
| 24 | Comptroller, KVAFSU, Bidar                      | <b>Mr. Mallikarjun Ligade</b><br><b>Mr. Suresh, K.L.</b>                             |
| 25 | Estate Officer, KVAFSU, Bidar                   | <b>Mr. M.K. Satish</b>   |



## 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 Konehally, 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



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  
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## IMPORTANT MEETINGS HELD BY KVAFSU, BIDAR DURING 2017-18

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



### 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<br>to<br>18.11.2017 | Dr. R. V. Prasad, Acting Vice-Chancellor, attended 42 <sup>nd</sup> 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 <sup>rd</sup> 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 <sup>st</sup> Board of Management Meeting at University Headquarters, KVAFSU, Bidar.   |



## **NINTH CONVOCATION OF KVAFSU, BIDAR**

Ninth Convocation of the University was held on 7<sup>th</sup> 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 22<sup>nd</sup> 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. Radder, 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.



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ಕರ್ನಾಟಕ ವನ್ಯಜೀವಿ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

## I. TEACHING

### 1) Teaching Institutions

| #  | Teaching Institute with Location                      | Year of Establishment | Name of the Dean / Director / Principal                            | Degree Programmes Offered  |
|----|---|-----------------------|--|--|
| 1  | Veterinary College, Bengaluru                         | 1958                  | Dr. H.N. Narasimhamurthy<br>Dr. Placid, E. D'Souza                 | B. V.Sc.&A.H.<br>M.V.Sc.<br>Ph.D.  |
| 2  | Veterinary College, Bidar                             | 1984                  | Dr. B.V. Shivaprakash<br>Dr. N.A. Patil                            | B. V.Sc.&A.H.<br>M.V.Sc.<br>Ph.D.  |
| 3  | Veterinary College, Shivamogga                        | 2006                  | Dr. K.C. Veeranna  | B. V.Sc.&A.H.<br>M.V.Sc.   |
| 4  | Veterinary College, Hassan                            | 2007                  | Dr. M.S. Vasanth<br>Dr. L. Ranganath                               | B. V.Sc.&A.H.  |
| 5  | Veterinary College, Gadag                             | 2017                  | Dr. Girish Kumar, V.<br>Dr. H.D. Narayanaswamy<br>Dr. Nagaraja, R. | B. V.Sc.&A.H.  |
| 6  | Dairy Science College, Bengaluru                      | 1980                  | Dr. H.M. Jayaprakasha  | B. Tech. (D.Tech)<br>M.Tech. (Dairy Science)<br>Ph.D. (Dairy Science)<br>MBA (Food & Dairy Business) |
| 7  | Dairy Science College, Kalaburagi                     | 2008                  | Dr. D.B. Puranik<br>Dr. H.Manjunatha                               | B. Tech. (D.Tech)  |
| 8  | College of Fisheries, Mangaluru                       | 1969                  | Dr. M.N. Venugopal   | B.F.Sc.<br>M.F.Sc.<br>Ph.D.  |
| 9  | Institute of Wildlife and Veterinary Research, Kodagu | 2007                  | Dr. Ganesh Udupa<br>Dr. A. Muralidhara                             | M.V.Sc. (Wildlife)<br>(Presently running at Bengaluru)   |
| 10 | Animal Husbandry Polytechnic, Konehalli-Tumakuru      | 2011                  | Dr. Shivakumar, R.   | Animal Husbandry Diploma   |
| 11 | Animal Husbandry Polytechnic, Shiggaon-Haveri         | 2012                  | Dr. Shivakumar, K. Radder  | Animal Husbandry Diploma   |
| 12 | Animal Husbandry Polytechnic, Koravangala-Hassan      | 2017                  | Dr. G.S. Naveen Kumar  | Animal Husbandry Diploma   |
| 13 | Animal Husbandry Polytechnic, Bargi-Chamarajanagar    | 2017                  | Dr. Shivakumar, M.   | Animal Husbandry Diploma   |
| 14 | Animal Husbandry Polytechnic, Dornalli-Yadgir         | 2017                  | Dr. Shesharao Rathod   | Animal Husbandry Diploma   |

## 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



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### 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   |
| <b>VETERINARY COLLEGE, BENGALURU</b> |  |                |           |           |           |           |           |           |
| 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         | -         | -         | -         | -         |
| <b>Total (A)</b>                     |  | <b>51</b>      | <b>54</b> | <b>56</b> | <b>18</b> | <b>29</b> | <b>25</b> | <b>21</b> |
| <b>VETERINARY COLLEGE, BIDAR</b>     |  |                |           |           |           |           |           |           |
| 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        |
| <b>Total (B)</b>                        |   | <b>14</b>  | <b>21</b>  | <b>16</b>  | <b>04</b> | <b>04</b> | <b>04</b> | <b>04</b> |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b>   |   |            |            |            |           |           |           |           |
| 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         | -          | -          | -         | -         | -         | -         |
| <b>Total (C)</b>                        |   | <b>14</b>  | <b>12</b>  | <b>03</b>  | <b>-</b>  | <b>-</b>  | <b>-</b>  | <b>-</b>  |
| <b>VETERINARY COLLEGE, HASSAN</b>       |   |            |            |            |           |           |           |           |
| 1                                       | Veterinary Surgery and Radiology          | 03         | -          | -          | -         | -         | -         | -         |
| 2                                       | Veterinary Pathology                      | 02         | -          | -          | -         | -         | -         | -         |
| 3                                       | Animal Nutrition                          | 04         | -          | -          | -         | -         | -         | -         |
| 4                                       | Livestock PM                              | 02         | -          | -          | -         | -         | -         | -         |
| 5                                       | VPT                                       | 02         | -          | -          | -         | -         | -         | -         |
| <b>Total (D)</b>                        |   | <b>13</b>  | <b>-</b>   | <b>-</b>   | <b>-</b>  | <b>-</b>  | <b>-</b>  | <b>-</b>  |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b> |   |            |            |            |           |           |           |           |
| 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         | -         | -         | -         | -         |
| <b>Total (E)</b>                        |   | <b>36</b>  | <b>20</b>  | <b>31</b>  | <b>04</b> | <b>02</b> | <b>03</b> | <b>-</b>  |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>  |   |            |            |            |           |           |           |           |
| 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         |
| <b>Total (F)</b>                        |   | <b>23</b>  | <b>31</b>  | <b>13</b>  | <b>5</b>  | <b>11</b> | <b>8</b>  | <b>5</b>  |
| <b>Grand Total</b>                      |   | <b>151</b> | <b>138</b> | <b>119</b> | <b>31</b> | <b>46</b> | <b>40</b> | <b>30</b> |



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#### 4) Academic Excellence

##### (i) Scholarships / Fellowships received

### UNDERGRADUATE ANIMAL AND VETERINARY SCIENCES

| #  | Scholarship                    | Year |    |     |    |    | Total |
|--|--------------------------------|------|----|-----|----|----|-------|
|  |                                | I    | II | III | IV | V  |       |
| <b>General Scholarship</b>                           |                                |      |    |     |    |    |       |
| 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    |
| <b>Merit Scholarship</b>                             |                                |      |    |     |    |    |       |
| 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    |
| <b>National Talent Scholarship</b>                   |                                |      |    |     |    |    |       |
| 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      | -    | -  | -   | -  | -  | -     |
| <b>Student Aid Fund</b>                              |                                |      |    |     |    |    |       |
| 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      | -    | -  | -   | -  | -  | -     |
| <b>Fee Concession from BCM</b>                       |                                |      |    |     |    |    |       |
| 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    |
| <b>Food and Accommodation (BCM) for OBC Students</b> |                                |      |    |     |    |    |       |
| 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      | -    | -  | -   | -  | -  | -     |



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| <b>Post Metric (BCM) for OBC Students</b>                      |                                |    |    |    |    |    |            |
|--|--------------------------------|----|----|----|----|----|------------|
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | -  | -  | -  | -  | -  | -          |
| 3  | Veterinary College, Shivamogga | 11 | 21 | 05 | 05 | 17 | <b>59</b>  |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | -  | -  | -  | -  | -  | -          |
| <b>Post Metric Scholarship (PMS) for ST Students Karnataka</b> |                                |    |    |    |    |    |            |
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | -  | -  | -  | -  | -  | -          |
| 3  | Veterinary College, Shivamogga | -  | 03 | 01 | -  | -  | <b>04</b>  |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | -  | -  | -  | -  | -  | -          |
| <b>Post Metric Scholarship for Students with Disabilities</b>  |                                |    |    |    |    |    |            |
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | -  | -  | -  | -  | -  | -          |
| 3  | Veterinary College, Shivamogga | -  | -  | 01 | -  | -  | <b>01</b>  |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | -  | -  | -  | -  | -  | -          |
| <b>e-Pass Scholarship</b>                                      |                                |    |    |    |    |    |            |
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | 26 | 24 | 24 | 14 | 19 | <b>107</b> |
| 3  | Veterinary College, Shivamogga | -  | -  | -  | -  | -  | -          |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | -  | -  | -  | -  | -  | -          |
| <b>SC/ST Govt. of India Scholarship</b>                        |                                |    |    |    |    |    |            |
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | 7  | 7  | 10 | 7  | 6  | <b>37</b>  |
| 3  | Veterinary College, Shivamogga | -  | -  | -  | -  | -  | -          |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | -  | -  | -  | -  | -  | -          |
| <b>University Freeship</b>                                     |                                |    |    |    |    |    |            |
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | -  | -  | -  | -  | -  | -          |
| 3  | Veterinary College, Shivamogga | -  | -  | -  | -  | -  | -          |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | 18 | -  | -  | -  | -  | <b>18</b>  |
| <b>Vidyashree Scholarship- BCWD (Fee concession)</b>           |                                |    |    |    |    |    |            |
| 1  | Veterinary College, Bengaluru  | -  | -  | -  | -  | -  | -          |
| 2  | Veterinary College, Bidar      | -  | -  | -  | -  | -  | -          |
| 3  | Veterinary College, Shivamogga | -  | -  | -  | -  | -  | -          |
| 4  | Veterinary College, Hassan     | -  | -  | -  | -  | -  | -          |
| 5  | Veterinary College, Gadag      | 16 | -  | -  | -  | -  | <b>16</b>  |



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



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

## DAIRY SCIENCE

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



RURAL ORIENTED & FARMER FRIENDLY

## FISHERY SCIENCE (COLLEGE OF FISHERIES, MANGALURU)

| #            | Scholarship / Fellowship | B. F. Sc. |           |           |           | Total      |
|--------------|--------------------------|-----------|-----------|-----------|-----------|------------|
|              |                          | I         | II        | III       | IV        |            |
| 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         |
| <b>Total</b> |                          | <b>26</b> | <b>25</b> | <b>21</b> | <b>82</b> | <b>154</b> |

## ABSTRACT OF UNDERGRADUATE SCHOLARSHIP

| #  | Scholarship   | VCH | VCB | VCS | HVC | VCG | DSCH | DSCK | FCM | Total |
|----|---|-----|-----|-----|-----|-----|------|------|-----|-------|
| 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  
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|    |  |   |    |    |   |    |   |    |   |    |
|----|--|---|----|----|---|----|---|----|---|----|
| 11 | SC/ST Govt. of India Scholarship   | - | 37 | -  | - | -  | - | -  | - | 37 |
| 12 | University Free ship   | - | -  | -  | - | 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  
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|              |   |           |            |            |            |           |           |           |            |             |
|--------------|---|-----------|------------|------------|------------|-----------|-----------|-----------|------------|-------------|
| 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          |
| <b>Total</b> |   | <b>50</b> | <b>177</b> | <b>322</b> | <b>127</b> | <b>64</b> | <b>31</b> | <b>81</b> | <b>154</b> | <b>1006</b> |



RURAL ORIENTED & FARMER FRIENDLY  
ಕರ್ನಾಟಕ ಪ್ರಾಣಿ ಮತ್ತು ಮೀನು ವೈದ್ಯಕೀಯ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

## POSTGRADUATE

### ANIMAL AND VETERINARY SCIENCES

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



RURAL ORIENTED & FARMER FRIENDLY  
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| <b>Post Metric (BCM) for OBC Students</b>             |                                |           |           |          |          |          |           |
|---|--------------------------------|-----------|-----------|----------|----------|----------|-----------|
| 1   | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2   | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3   | Veterinary College, Shivamogga | -         | 5         | -        | -        | -        | 5         |
| 4   | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Post Metric Scholarship Schemes for Minorities</b> |                                |           |           |          |          |          |           |
| 1   | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2   | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3   | Veterinary College, Shivamogga | -         | 1         | -        | -        | -        | 1         |
| 4   | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Graduate Assistantship</b>                         |                                |           |           |          |          |          |           |
| 1   | Veterinary College, Bengaluru  | -         | 1         | 1        | -        | 2        | 4         |
| 2   | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3   | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4   | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Research Assistantship</b>                         |                                |           |           |          |          |          |           |
| 1   | Veterinary College, Bengaluru  | -         | 1         | -        | -        | -        | 1         |
| 2   | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3   | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4   | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Total</b>  |                                | <b>38</b> | <b>48</b> | <b>5</b> | <b>2</b> | <b>2</b> | <b>95</b> |

## DAIRY SCIENCE

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

## 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 Assistsanship         | -         | 4         | -        | 3        | 3        | 10        |
| <b>Total</b> |                                | <b>12</b> | <b>20</b> | <b>0</b> | <b>5</b> | <b>6</b> | <b>43</b> |



### 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          |
| <b>Total</b> |  | <b>54</b> | <b>16</b> | <b>20</b> | <b>5</b> | <b>9</b> | <b>43</b> | <b>147</b> |

### (ii) UG Gold Medals Awarded:

| #                                    | ID. No.   | Name             | Medals/Awards   | OGPA  |
|--------------------------------------|-----------|------------------|---|-------|
| <b>VETERINARY COLLEGE, BENGALURU</b> |           |                  |   |       |
| <b>For the year - 2014-15</b>        |           |                  |   |       |
| 1                                    | VHK- 1002 | Aditi Handa      | University Gold Medal   | 8.515 |
|                                      |           |                  | Dr. R.D. Nanjiah Memorial Gold Medal (Vet. Anat, Micro. & Pub. Hel.)    | 8.622 |
|                                      |           |                  | Smt. & Sri. M.M. Wadayar Gold Medal - (Animal Science)                  | 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 Mohiddeen Memorial Gold Medal (Pathology)                      | 9.004 |
| 4                                    | VHK- 1013 | Bhargavi Prakash | Dr. D.M. Karegowda Memorial Gold Medal-(Clinical Vet. Medicine Subject) | 8.953 |



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| <b>For the year - 2015-16</b>                  |          |                     |  |       |
|--|----------|---------------------|--|-------|
| 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 |
| <b>VETERINARY COLLEGE, BIDAR</b>               |          |                     |  |       |
| <b>For the year - 2014-15</b>                  |          |                     |  |       |
| 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 |
|  |          |                     | Sri. K.R. Alur Memorial Gold Medal - (Anatomy)                 | 8.352 |
| Dr. R.V. Patil Memorial Gold Medal - (Overall) | 8.669    |                     |  |       |
| 2  | VBK-1031 | Nijamuddin Kumasagi | State Bank of Hyderabad Gold Medal for Agricultural Quota      | 7.985 |
| 3  | VBK-1030 | Nidha               | Dr. Chandrashekar Rao Gold Medal for excellence in Sports      | 7.200 |
| <b>For the year 2015-16</b>                    |          |                     |  |       |
| 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 |



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| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |          |                |   |       |
|---------------------------------------|----------|----------------|---|-------|
| <b>For the year - 2014-15</b>         |          |                |   |       |
| 1                                     | VSK-1001 | Abhijith, M.S. | University Gold Medal   | 8.310 |
| <b>For the year - 2015-16</b>         |          |                |   |       |
| 1                                     | VSK-1130 | Ram Kumar      | University Gold Medal   | 7.794 |
|                                       |          |                | Celestial's 2009-14 Gold Medal  | 7.794 |
| <b>VETERINARY COLLEGE, HASSAN</b>     |          |                |   |       |
| <b>For the year - 2014-15</b>         |          |                |   |       |
| 1                                     | HVK-1027 | Ranjitha, H.B. | University Gold Medal   | 8.505 |
| 2                                     | HVK-1012 | Kiran, M.      | Dr. B.L. Pradeep Memorial Gold Medal<br>- (Gyn. & Obst.)                              | 8.814 |
| 3                                     | HVK-1019 | Namratha, K.B. | Dr. B.L. Pradeep Memorial Gold Medal<br>- (Vet. Clinical)                             | 8.993 |
| 4                                     | HVK-1018 | Muniraju, H.M. | Prof. K. Jayakumar Memorial Gold Medal<br>(Highest OGPA under Agriculturist<br>Quota) | 8.130 |
| <b>For the year - 2015-16</b>         |          |                |   |       |
| 1                                     | HVK-1144 | Surendra, D.S. | University Gold Medal   | 8.806 |
|                                       |          |                | D.N. Vasudeva Mudaliar - (Clinical<br>Subject)  | 8.669 |
|                                       |          |                | Dr. R.D. Nanjiah Memorial (Vet. Anat,<br>Micro. & Pub. Hel.)                          | 8.973 |
|                                       |          |                | Dr. R.D. Nanjiah Memorial - (O).  | 8.806 |
|                                       |          |                | Sri. T.K. Gurusiddappa Memorial Gold<br>Medal - (O)                                   | 8.806 |
|                                       |          |                | Dr. Syed Mohiddeen Memorial<br>- (Pathology)  | 9.073 |
|                                       |          |                | The Lion's International District 304-S<br>- (O)                                      | 8.806 |
|                                       |          |                | Sri. R. Gundu Rao - F.M.Khan Gold<br>Medal - (O)                                      | 8.806 |
|                                       |          |                | Dr. K.Y. Jaganath Gold Medal -<br>(Clinical Subjects)                                 | 8.821 |
|                                       |          |                | Dr. D.M. Karegowda Memorial Gold<br>Medal - (Clinical Vet. Medicine Subject)          | 8.791 |
|                                       |          |                | Smt. B. Hosahalli Gullamma Gold Medal<br>- (O)  | 8.806 |
|                                       |          |                | Karnataka Veterinary Association Gold<br>Medal - (O)                                  | 8.806 |
| 2                                     | HVK-1116 | Jeevan, K.     | Smt. & Sri. M.M. Wadayar - (Animal<br>Science)  | 8.934 |
|                                       |          |                | Prof. K. Jayakumar Memorial Gold Medal<br>(Highest OGPA under Agriculturist<br>Quota) | 8.601 |
|                                       |          |                | Sri Chanila Shankara Bhat Memorial<br>Gold Medal (Animal & Poultry Sci.)              | 8.934 |
|                                       |          |                | State Bank of Hyderabad Gold Medal<br>for excelled in Cultural Activities             | 8.601 |



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| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b>  |          |                      |  |       |
|--|----------|----------------------|--|-------|
| <b>For the year - 2014-15</b>            |          |                      |  |       |
| 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 |
| <b>For the year - 2015-16</b>            |          |                      |  |       |
| 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 |
| <b>DAIRY SCIENCE COLLEGE, KALABURAGI</b> |          |                      |  |       |
| <b>For the year - 2014-15</b>            |          |                      |  |       |
| 1  | DGK-1114 | Sharanabasava        | University Gold Medal - (O)  | 8.980 |
| <b>For the year - 2015-16</b>            |          |                      |  |       |
| 1  | DGK-1205 | Ambika, H.           | University Gold Medal - (O)  | 8.520 |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>   |          |                      |  |       |
| <b>For the year - 2014-15</b>            |          |                      |  |       |
| 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 |
| <b>For the year - 2015-16</b>            |          |                      |  |       |
| 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  |



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

| #                                    | ID. No.   | Name                 | Department                                | Medals/Awards   | OGPA         |
|--------------------------------------|-----------|----------------------|---|---|--------------|
| <b>VETERINARY COLLEGE, BENGALURU</b> |           |                      |   |   |              |
| <b>For the year 2014-15</b>          |           |                      |   |   |              |
| 1                                    | MVHK-1347 | Pramina, K.V.        | Veterinary Microbiology                   | University Gold Medal<br>Dr. R. Eswaran Memorial Gold Medal (Vet. Micro)                                    | 9.25<br>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<br>Dr. Sivaramakrishnier Ramachandran and Dr. Sakkubai Paturi Ramachandran Gold Medal | 9.26<br>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<br>Dr. B.V. Rao, Venkateshwara Hatcheries Ltd, Gold Medal                             | 9.05<br>9.05 |
| 7                                    | MVHK-1325 | Kantharaju, M.K.     | Veterinary and Animal Husbandry Extension | University Gold Medal   | 9.32         |
| <b>For the year 2015-16</b>          |           |                      |   |   |              |
| 1                                    | MVHK-1423 | Deepti, C.R.         | Veterinary Gynaecology and Obstetrics     | University Gold Medal<br>Smt. Saraswati Gurupadappa Nagamarpalli Gold Medal - (VGO)                         | 9.10<br>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<br>Dr. Sivaramakrishnier Ramachandran and Dr. Sakkubai Paturi Ramachandran Gold Medal | 9.36<br>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 |
| <b>VETERINARY COLLEGE, BIDAR</b> |           |                          |   |  |      |
| <b>For the year 2014-15</b>      |           |                          |   |  |      |
| 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 |
| <b>For the year 2015-16</b>      |           |                          |   |  |      |
| 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 | Bruna, 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 |
| 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          | 9.10 |

### b. Doctoral Degree

| #                             | ID. No.   | Name                | Department                       | Medals/Awards                   | OGPA |
|-------------------------------|-----------|---------------------|----------------------------------|---------------------------------|------|
| 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           | 9.08 |
| 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 |



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|   |           |                     |                                     |                       |      |
|---|-----------|---------------------|-------------------------------------|-----------------------|------|
| 8                                       | DVHK-1210 | Kantharaj, 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 |
| <b>For the year 2015-16</b>             |           |                     |                                     |                       |      |
| 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 |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b> |           |                     |                                     |                       |      |
| <b>For the year 2014-15</b>             |           |                     |                                     |                       |      |
| 1                                       | DDK-1101  | Thejaswini, M.L.    | Dairy Technology                    | University Gold Medal | 9.08 |
| <b>For the year 2015-16</b>             |           |                     |                                     |                       |      |
| 1                                       | DDK-1301  | Ramachandra, B.     | Dairy Microbiology                  | University Gold Medal | 9.38 |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>  |           |                     |                                     |                       |      |
| <b>For the year 2014-15</b>             |           |                     |                                     |                       |      |
| 1                                       | DFK-1202  | Varuna Baglodi      | Aquaculture                         | University Gold Medal | 9.08 |
| 2                                       | DFK-1204  | Harsha Nayak        | Aquatic Environment Management      | University Gold Medal | 9.08 |
| <b>For the year 2015-16</b>             |           |                     |                                     |                       |      |
| 1                                       | DFK-1303  | Jitendra Kumar      | Fisheries Resources & Management    | University Gold Medal | 9.10 |



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## 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.                                 |
|--------------------------------------|---|-----------------------|---|
| <b>VETERINARY COLLEGE, BENGALURU</b> |   |                       |   |
| 1                                    | Effect of supplementation of acidifier on the performance of Raja-II broilers   | Dole Vijay Balajirao  | T. Munegowda<br>Poultry Science                         |
| 2                                    | Bacteriological study of water from major water resources of Bandipur and Nagarahole national parks of Karnataka  | Vardhaman Patil       | D. Rathnamma<br>Veterinary Microbiology                 |
| 3                                    | Studies on shell disease of captive turtles   | Preeti Goswami        | S. Yathiraj<br>Veterinary Wildlife                      |
| 4                                    | Comparative evaluation of Giriraja and Raja-II under intensive and semi-intensive system of rearing   | Nagavath Nemya Naik   | T. Munegowda<br>Poultry Science                         |
| 5                                    | Certain epidemiological and molecular studies of fasciola infected snails in some areas of Karnataka  | Rajanna, R.           | P.M. Thimmareddy<br>Veterinary Parasitology             |
| 6                                    | Hepatoprotective activity and toxicity studies of phyllanthus tenellus  | Sunilkumar, K.B.      | N.B. Shridhar<br>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<br>Poultry Science                         |
| 8                                    | Pharmacokinetic study of ketoprofen loaded polymeric nanomaterial in rats   | Sindhu, B.M           | J.S. Sanganal<br>Veterinary Pharmacology and Toxicology |
| 9                                    | Evaluation of antibacterial, anti-inflammatory activity and dermal toxicity study of cassia tora  | Tirumala, M.          | N.B. Shridhar<br>Veterinary Pharmacology and Toxicology |
| 10                                   | Pathology of thyroid and parathyroid glands in dogs   | Anu Dhiman            | M.L. Satyanarayana<br>Veterinary Pathology              |
| 11                                   | Studies on the pathology of lung disorders in sheep   | Raghavendra Yelival   | H.D. Narayanaswamy<br>Veterinary Pathology              |
| 12                                   | Pharmacological and toxicological study of cissus quadrangularis in rats  | Anusha Kudrekar       | N.B. Shridhar<br>Veterinary Pharmacology and Toxicology |
| 13                                   | Pathomorphological and molecular studies in bovine mastitis   | Sarvesh, K.           | M.L. Satyanarayana<br>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<br>Poultry Science                         |



RURAL-ORIENTED & FARMER FRIENDLY  
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|----|--|-----------------------|--|
| 15 | Influence of phytase supplementation on performance and mineral retention in low phosphorus diet fed in Giriraja birds                     | Vidyasagar            | Jayanaik<br>Poultry Science  |
| 16 | Study of managemental practices followed in equine farms with special reference to stable management                                       | Abdulmateen Wallibhai | Y.B. Rajeshwari<br>Livestock Production and Management             |
| 17 | Efficacy of mifepristone and prostaglandin in the treatment of closed cervix pyometra in dogs  | Malasri, G.           | V. Chandrashekhara<br>Murthy,<br>Vety. Gynaecology and Obstetrics  |
| 18 | Intensive cultivation of agasse (sesbania grandiflora) for sustainable sheep farming-an action oriented research                           | Kiran, M.             | K. Satyanarayan<br>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<br>Veterinary Pharmacology and Toxicology    |
| 20 | Studies on pharmacokinetics and biodistribution of azithromycin in broiler chickens  | Shruthi, V.R.         | Jagasesh, S. Sanganal<br>Veterinary Pharmacology and Toxicology    |
| 21 | Phenotypic and Cenotypic studies on hepato intestinal schistomes in cattle   | Manohara, B.M.        | Placid, E. D'Souza<br>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<br>Poultry Science                                    |
| 23 | Studies on TLR Expression in tigers  | Vidya, M.K.           | V. Girish Kumar<br>Veterinary Biochemistry                         |
| 24 | Quality attributes and shelf life evaluation of retort processed cereal based chicken stew   | Priyanka, V.S.        | Nadeem Fairoze<br>Livestock Products Technology                    |
| 25 | Determining optimum breeding time in dogs by using different methods   | Meghashree, C.S.      | G. Sudha<br>Veterinary<br>Gynaecology Obstetrics                   |
| 26 | Study on some protocols for the induction of lactation in unproductive cattle  | Darshaan, C.N.        | G. Sudha<br>Veterinary<br>Gynaecology Obstetrics                   |
| 27 | Effect of low-voltage electrical stimulation on the quality and proteome changes in sheep meat   | Namratha, K.B.        | Nadeem Fairoze<br>Livestock Products Technology                    |
| 28 | Detection of pork fat and lard using polymerase chain reaction (PCR)   | Sahana, M.            | Nadeem Fairoze<br>Livestock Products Technology                    |



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|----|---|--------------------|---|
| 29 | Studies on occurrence of pulmonary disorders in dogs  | Savitha, J.V.      | M.L. Satyanarayana<br>Veterinary Pathology            |
| 30 | Studies on occurrence of hepatic and pancreatic disorders in dogs   | Harshitha, C.R.    | M.L. Satyanarayana<br>Veterinary Pathology            |
| 31 | Studies on contagious ecthyma on sheep and goats  | Syeda Sumaiya      | Suguna Rao<br>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<br>Veterinary<br>Gynaecology Obstetrics |
| 33 | Establishment of database for commonly used fodder varieties in Bengaluru   | Uday Kumar         | Narasimha Murthy<br>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<br>Veterinary Microbiology         |
| 35 | A Study on intake of dam's milk and weight gain in Nari Suwarna lambs fed on broken versus germinated horsedgram  | Rohith, K.J.       | Y.B. Rajeshwari<br>LPM                                |
| 36 | Molecular characterization of Mudhol breed of dog   | So wmyashree, B.L. | M.R. Jayashnkar<br>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<br>VPY                              |
| 38 | Pharmacological and Toxicological Study of <i>Cissus Quadrangularis</i> In Rats   | Anusha Kurdekar    | N.B. Srudhar<br>VPT                                   |
| 39 | Development of ELISA for detection of <i>Mycobacterium Avium</i> Subspecies in Animals  | Pannaga, P.        | D. Rathnamma<br>VMC                                   |
| 40 | Absolute and Relative Quantification of Rabies Virus in Saliva and Brain from Dogs  | Sujith, S. Nath    | B.M. Veeregowda<br>VMC                                |
| 41 | Studies on the Pathology of Lung Disorders in Sheep   | Ragavendra Yalival | H.D. Narayanawamy<br>VPP                              |
| 42 | Post-thaw viability and sperm functional tests of Amrithmahal bull semen  | Sunil Kumar, S.C.  | V.C. Murthy<br>VGO                                    |



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|----------------------------------|---|---------------------------|---|
| 43                               | Studies on conception rate following synchronization of estrus in ewes  | Gangadharaiah, B.P.       | V.C. Murthy<br>VGO                                      |
| 44                               | Studies on a modified type ii external skeletal fixation for the repair of tibial fracture in bovines   | Varalakshmi, A.           | B.N. Nagaraja<br>VSR                                    |
| 45                               | Haematological, hormonal and vaginal cytological studies during oestrous cycle in captive asian elephants   | Ankali Bhairapp           | V.C. Murthy<br>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<br>ANN                                |
| 47                               | A molecular study on genetic polymorphism of dgat-1 gene in Mandya and Hassan breeds of sheep   | Harshitha, B.             | M.R. Jayashankar<br>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<br>LPM                                 |
| 49                               | Study of managerial practices followed in equine farms with special reference to stable management  | Abdul Mateen<br>Wallibhai | Y.B. Rajeshwari<br>LPM                                  |
| 50                               | Effect of feeding organic and inorganic sources of additional zinc on growth performance of young piglets   | Pramid, Y. Talawar        | R. Bhaskaran<br>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<br>VAHE                                 |
| <b>VETERINARY COLLEGE, BIDAR</b> |   |                           |   |
| 1                                | Effect of seasons on milk production somatic cell count and expression of HSP70 gene in Deoni cows  | Prakash Soloni            | Shrikant Kulkarni<br>Veterinary Physiology              |
| 2                                | Evaluation of Boer buck's semen preserved at refrigeration temperature by CASA  | Mahesh, M.K.              | M.K. Tandle<br>Veterinary Gynaecology<br>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<br>Veterinary Gynaecology<br>and Obstetrics |



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



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| 17                                      | Genetic polymorphism of $\beta 4$ -defensin gene and its association with somatic cell count in Deoni cattle   | Thakur Pavankumar, B.             | H.M. Yathish<br>AGB   |
| 18                                      | Analysis of body weight of Deoni cattle using biometrical measurements   | Siddashree                        | P.G. Waghmare<br>LPM  |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b>   |  |                                   |   |
| 1                                       | Promotion of community led rural hatcheries to support backyard poultry production-An Action Research  | Pushpa, G.<br>Malagittimath       | K.C. Veeranna<br>Veterinary and Animal<br>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.<br>Veterinary Public Health<br>and Epidemiology |
| 3                                       | Studies on neurobiochemical and neuropharmacological activities in wistar rats exposed to arsenic with or without exogenous melatonin administration | Prasada Ningappa<br>Durappannavar | Prakash Nadoor<br>Veterinary Pharmacology<br>and Toxicology         |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b> |  |                                   |   |
| 1                                       | Characterization of bio-surfactant produced by milk origin bacillus species  | Sanjana, M.C.                     | Prabha, R.<br>Dairy Microbiology                                    |
| 2                                       | Process optimization for the development of spiced cottage cheese  | Himabindu, D.                     | H. Arun Kumar<br>Dairy Technology                                   |
| 3                                       | Development of coconut milk and Kiwi fruit pulp enriched dahi  | Nikhil Mahabalashetti             | Venkatesh, M.<br>Dairy Technology                                   |
| 4                                       | Development of low-calorie almond milk health beverage   | Bhaskar Reddy, N.                 | H.G. Ramachandra, Rao<br>Dairy Technology                           |
| 5                                       | Development of low calorie tulsi ( <i>ocimum sanctum</i> ) blended herbal flavoured milk   | Harsha, V.K.                      | Arun Kumar<br>Dairy Technology                                      |
| 6                                       | Biomass production of lactic acid bacterial cultures by solid state fermentation technique   | Akshaykumar                       | Ramachandra, B.<br>Dairy Microbiology                               |
| 7                                       | Development of bioactive nutraceutical qhey porridge   | Kiran Kumar, G.<br>Channa         | D.B. Puranik<br>Dairy Technology                                    |
| 8                                       | Effect of blending of safflower ( <i>carthamus tinctorius</i> ) milk with cow milk on quality attributes of paneer                                   | Poojitha, G.                      | Jayashree, P. Hiremath<br>Dairy Chemistry                           |



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| 9                                      | Formulation of dairy by product based health beverage  | Prashanth, B.M.           | H.M. Jayaprakasha<br>Dairy Technology |
| 10                                     | Development of methods to assess the purity of milks   | Anantha Kumara            | C. Kempanna<br>Dairy Chemistry        |
| 11                                     | Development of finger millet ( <i>Eleusine coracana</i> ) Enriched fruit blended robotic stirred yoghurt   | Santhosh, V.N.            | M. Venkatesh<br>Dairy Technology      |
| 12                                     | Development of pomegranate based whey beverage   | Santhosha, M.D.           | Venkatesh, M.<br>Dairy Technology     |
| <b>COLLEGE OF FISHERIES, MANGALURU</b> |  |                           |                                       |
| 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.<br>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.<br>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<br>Aquaculture           |
| 4                                      | Ecological assessment of Karanja Reservoir Bidar   | Ligesh                    | H.R.V. Reddy<br>FEE                   |
| 5                                      | Distribution and abundance of intertidal organism along the selected beaches of Mangaluru  | Daggula Narshivudu        | Lakshmipathi, M.T.<br>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      | Gan gadhara Gowda<br>FEE              |
| 7                                      | Studies on application of natural preservative to enhance the storage stability of fish sausage in cellulose casing  | Richa Chaudhary           | C.V. Raju<br>FPT                      |
| 8                                      | Quality evaluation of hot smoked fillets and steaks of mullet fish stored at different temperature   | Shihabudheen<br>Machingal | S. Siddappaji<br>FPT                  |
| 9                                      | Prevalence of diseases of cultured shrimp in Karnataka coast   | Rajesh Ranjan             | M.N. Venugopal<br>FMB                 |
| 10                                     | Assessment of ichthyofaunal biodiversity of mulki-pavanja estuarine system of Dakshina Kannada District, Karnataka   | Adarsh, K.                | S.R. Somshekara<br>FRM                |



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## ii) Doctoral Degree:

| <i>Sl. No.</i>                       | <i>Thesis Title</i>  | <i>Name of the Student Degree</i> | <i>Major Advisor and Dept.</i>                                      |
|--------------------------------------|--|-----------------------------------|---|
| <b>VETERINARY COLLEGE, BENGALURU</b> |  |                                   |   |
| 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<br>Poultry Science   |
| 2                                    | Comparative studies on the efficacy of different techniques for the diagnosis of prostatic disorders in dogs                                 | Bibin Becha, B.                   | A. Krishnaswamy<br>Veterinary Gynaecology<br>Obstetrics             |
| 3                                    | Isolation and molecular characterization of <i>Mycobacterium avium</i> subsp paratuberculosis form ruminants in Karnataka                    | Shivalingappa<br>Mukartal         | R.D. Rathnamma Veterinary<br>Pharmacology and Toxicology            |
| 4                                    | Multi-Residue analysis of some organochlorine pesticides in coramatography-electron capture detector (GC-ECD)                                | Lokesha, L.V.                     | Jagadeesh, S. Sanganal<br>Veterinary Pharmacology and<br>Toxicology |
| 5                                    | Studies on seropidemiological Hematological and biochemical aspects of anaplasmosis in sheep.  | Patel Suresh<br>Revanna           | P.T. Remesh<br>Veterinary Medicine                                  |
| 6                                    | Estimation of post vaccinal Antirabies antibody titer and evaluation of different regimen of vaccination in cattle                           | Sunil Kumar,<br>K.M.              | C. Ansarkamaram<br>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<br>Veterinary Anatomy and<br>Histology                  |
| 8                                    | Studies on prevalence diagnosis and treatment of postpartum sub-clinical endometritis in crossbred dairy cows                                | Sahadev                           | A. Krishnawamy<br>Veterinary Gynaecology and<br>Obstetrics          |
| 9                                    | Studies on Prevalence Diagnosis treatment of sub-clinical endometritis in repeat breeding  | Sunith Behera                     | V.Chandrashekaramurthy<br>Veterinary Gynaecology and<br>Obstetrics  |
| 10                                   | Pathomorphological and molecular studies in bovine mastitis  | Sarvesha, K.                      | M.L. Satyanarayana<br>Veterinary Pathology                          |
| 11                                   | Studies on hemato-biochemical profile and immune responsiveness to vaccination against foot and mouth disease in Malnad Gidda cattle         | Hemanth<br>Gowda, K.              | M. Narayana Swamy<br>Veterinary Parasitology                        |
| 12                                   | Nutritional Evaluation of spineless cactus ( <i>opuntia ficus indica</i> ) in growing lambs  | Ajith, K.S.                       | K. Chandrapal Singh<br>Animal Nutrition                             |



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 ಪಕ್ಷಿವೈದ್ಯಕೀಯ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಿದರ

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|----------------------------------|---|-------------------------|--|
| 13                               | Studies on clinico-pathology and molecular diagnosis of paratuberculosis in small ruminants   | Srikanth, M.            | H.D. Narayanaswamy<br>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<br>Poultry Science                |
| 15                               | Morphological characterization of keratin materials and their potential for biomedical applications   | Dhoolappa, M.           | R.V. Prasad<br>VAN                         |
| 16                               | Immunolocalisation of certain fertility proteins in testis, excurrent duct system and spermatozoa of adult buffalo ( <i>Bubalus Bubalis</i> )                 | Sunilkumar Patil        | K.V. Jamuna<br>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<br>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<br>VPP                  |
| 19                               | Studies on reproductive efficiency of female Mudhol Hound dogs  | Mahesh Dodamani         | A. Krishna Swamy<br>VGO                    |
| 20                               | Studies on clinicopathological and ultrasonographic evaluation of hepatic disorders in dogs   | Vijayakumar, N. Telagar | C. Ansar Kamran<br>VMD                     |
| 21                               | Certain epidemiological aspects of antibiotic residues in cattle milk at selected districts of Karnataka  | Vinu David. P.          | P.T. Ramesh<br>VMD                         |
| 22                               | Genetic studies on production and reproduction parameters in Frieswal crossbred dairy cattle  | Harish, S.N.            | M.R. Jayashakar<br>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<br>PSC                            |
| <b>VETERINARY COLLEGE, BIDAR</b> |   |                         |  |
| 1                                | <i>In Vivo</i> And <i>In Vitro</i> evaluation of sugarcane trash based diets on the performance of Narisuwarna × Kenguri -F1 sheep                            | Jaishankar, N.          | Ramachandra, B.<br>ANN                     |



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Kuvempu University

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| 2                                      | Evaluation of different tube cystostomy techniques along with urethrotomy and bladder repair for urethral obstruction in bullocks                                    | Basavaraj<br>Ramappa<br>Balappanavar | B.V. Shivaprakash<br>VSR       |
| 3                                      | Studies on acute ruminal acidosis in goats with special reference to therapeutic and surgical management   | Bhagavantappa,<br>B.                 | Shivshankar, M. Usturge<br>VSR |
| 4                                      | Comparative evaluation of DCP LCP and IILN for repair of femoral fractures in canines  | Manjunath Patil                      | Dilip Kumar<br>VSR             |
| <b>COLLEGE OF FISHERIES, MANGALURU</b> |  |                                      |                                |
| 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<br>Ratankumar<br>Singh      | C.V. Raju<br>FPT               |
| 2                                      | Effect of orange and pomegranate peel extracts on the storage stability of fish paste product  | Jag Pal                              | C.V. Raju<br>FPT               |

### ABSTRACT

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



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## 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 EZyproxy 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         |
| <b>Total</b> |                      | <b>798</b> | <b>320</b> | <b>347</b> | <b>324</b> | <b>-</b> | <b>96</b> | <b>281</b> | <b>2276</b> |



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## 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 Anchatgeri 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. | <b>Football Men -</b> | <b>Winner -</b> | Veterinary College, Shivamogga   |
|    |                       | <b>Runner -</b> | College of Fisheries, Mangaluru  |
| 2. | <b>Cricket -</b>      | <b>Winner -</b> | Veterinary College, Bengaluru    |
|    |                       | <b>Runner -</b> | <b>Veterinary College, Bidar</b> |

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 Anchatgeri 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.



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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 Barathanatya 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.<br>Veterinary College, Hassan   |
|   |                            | : | II Prize  | : | Miss. Shraddha Nair<br>Veterinary College, Bidar   |
|   |                            | : | III Prize | : | Miss. Amrutha Nadig<br>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.<br>College of Fisheries, Mangaluru<br>Against: Sri Sheethal Kumar N.P.,<br>Veterinary College, Shivamogga |
|   |                            | : | II Prize  | : | Miss. Shilpa, S.<br>Veterinary College, Hassan<br>Against: Miss. Keerthi, K.,<br>Veterinary College, Bengaluru               |
|   |                            | : | III Prize | : | Miss. Sugama, S. Naik<br>Veterinary College, Bengaluru<br>Against: Mr. Manjunath<br>Veterinary College, Hassan               |



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



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



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|   |                      |   |           |   |   |
|---|----------------------|---|-----------|---|---|
| 17  | On the Spot Painting | : | I Prize   | : | Miss. Pooja, D. Naik<br>Veterinary College, Bengaluru |
|   |                      | : | II Prize  | : | Miss. Pruthvi<br>Veterinary College, Shivamogga       |
|   |                      | : | III Prize | : | Mr. Prashanth, R.G.<br>Veterinary College, Bidar      |
| 18  | Collage              | : | I Prize   | : | Miss. Pruthvi<br>Veterinary College, Shivamogga       |
|   |                      | : | II Prize  | : | Mr. Gurudev Kajargi<br>Veterinary College, Bidar      |
|   |                      | : | III Prize | : | Miss. Hamsa, A.<br>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                        |
| <p><b>13<sup>th</sup> Inter Collegiate Youth Festival – 2017 Comprehensive Award</b></p> <p>I Prize - Veterinary College, Shivamogga<br/>II Prize - Veterinary College, Bengaluru</p> |                      |   |           |   |   |

The Valedictory function was organized on 6<sup>th</sup> 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.

### 13<sup>th</sup> Inter Collegiate Sports and Games Meet 2017-18

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



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 Anchatageri, 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 17<sup>th</sup> 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*

2<sup>nd</sup> KVAFSU Inter Animal Husbandry Polytechnics Sports Meet - 2017-18

II<sup>nd</sup> KVAFSU Inter Animal Husbandry Polytechnics Sports Meet - 2017-18 was organized by office of the Director of Student Welfare KVAFSU, Bidar on 05<sup>th</sup> & 06<sup>th</sup> 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 Anchatgeri, 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       |
|   | <b>Overall Championship</b> | Winner        | Animal Husbandry Polytechnic, Konehally   |
|   |                             | Runner        | Animal Husbandry Polytechnic, Koravangala |

The Valedictory function was organized on 6<sup>th</sup> 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.

### **1<sup>st</sup> KVAFSU Inter-Collegiate Non Teaching Staff Sports Meet - 2017-18**

1<sup>st</sup> 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 26<sup>th</sup> and 27<sup>th</sup> 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 Anchatgeri, 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.<br>Veterinary College, Hassan          |
|    |                                  | Runner        | Devraj Panchal and Rajshekhar Dugani<br>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.<br>Dairy Science College, Bengaluru  |
|    |                                  | Runner        | Devraj Panchal and Rahul Doddi<br>Veterinary College, Bidar               |
| 7  | Carom Doubles (Men)              | Winner        | Mallesh, D.B. and Ramesh, D. Belchaada<br>College of Fisheries, Mangaluru |
|    |                                  | Runner        | Jaipal Reddy and Narsa Reddy<br>Dairy Science College, Kalaburagi         |
| 8  | Chess (Men)                      | Winner        | Krishna Murthy, A., IAH&VB, Bengaluru                                     |
|    |                                  | Runner        | Jagdes, B., College of Fisheries, Mangaluru                               |
| 9  | Table Tennis Singles (Women)     | Winner        | Savitha,<br>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.,<br>Dairy Science College, Bengaluru    |



The Valedictory function was organized on 27<sup>th</sup> 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 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 12<sup>th</sup> & 13<sup>th</sup> 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 Anchatgeri, 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        | Lakshmishree, 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 Lakshmishree, K.T.,<br>Veterinary College, Shivamogga |
|    |                            | Runner | Shanta, S. Betageri and Rashmi, R.,<br>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.,<br>College of Fisheries, Mangaluru     |
|    |                            | Runner | Giridhar, K.S. and Nagaraj, S.,<br>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.,<br>Veterinary College, Shivamogga                 |
|    |                            | Runner | Supreetha, B.U. and Swathi,<br>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.,<br>College of Fisheries, Mangaluru       |
|    |                            | Runner | Malatesh, D.S. and Rudresh,<br>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.

### **XVIII<sup>th</sup> ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2017-18**

Karnataka Veterinary, Animal And Fisheries Sciences University, Bidar university team coaching camp for 18<sup>TH</sup> ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2017-18 held during 17<sup>th</sup>-28<sup>TH</sup> January, 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<br>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 &<br>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                |
| 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 MN        | 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 23<sup>rd</sup> and 24<sup>th</sup> 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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ಕರ್ನಾಟಕ ವನ್ಯಾಯ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

|    |                                 |  |                              |
|----|---------------------------------|--|------------------------------|
| 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<br>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<br>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. Hadi mani          | 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<br>Basketball    |
| 43 | Varshitha, P.K.                 | College of Fisheries, Mangaluru          | Kabaddi and<br>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                      |



Our university team participated in the XVIII<sup>th</sup> ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2017-18 at GKVK UAS Bengaluru Campus from 30<sup>th</sup> January to 3<sup>rd</sup> 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. SubrayyaParbhu, 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 5<sup>th</sup> position in Discus Throw.
  - c. Mr. Adarsh D Naik attained 4<sup>th</sup> position in Shot-put
  - d. Mr. Karthik Gowda attained 4<sup>th</sup> position in High jump
  - e. Mr. Harisha K attained 5<sup>th</sup> position in 1500m and 800m
  - f. Mahalinga Bhure qualified for Semifinals

The proposed selection marks (8<sup>h</sup> 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

## **XVIII<sup>th</sup> ALL INDIA INTERAGRICULTURAL UNIVERSITY YOUTH FESTIVAL, 2017-18**

Karnataka Veterinary, Animal And Fisheries Sciences University, Bidar university team coaching camp for 18<sup>TH</sup> ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL, 2017-18 held during 29<sup>th</sup> January to 08<sup>th</sup> 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 18<sup>th</sup> Agri-Unifest held from 12<sup>th</sup> to 16<sup>th</sup> 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 <sup>st</sup> 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  | Chaithra 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 | Balanagouda          | 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              |



Our university team participated in the XVIIIth ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL, 2017-18 at Shri Venkateshwara Veterinary University, Thirupati from 12<sup>th</sup> to 16<sup>th</sup> February 2018. The Team managers Dr. Madhusudhan, H.S. and Dr. Sundareshan, student participants and the event artists as accompanists were started their journey on 09.02.2018 to participate in 18<sup>th</sup> 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 18<sup>th</sup> 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 (2<sup>nd</sup> Place)
2. One-Act-Play (2<sup>nd</sup> Place)
3. Skit (2<sup>nd</sup> Place)
4. Rangoli (1<sup>st</sup> 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.



## 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                 | --         |
| <b>Total</b> |                                   | <b>660</b>         | <b>340</b> |

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 |



|  |                   |                     |                                  |
|--|-------------------|---------------------|----------------------------------|
| 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  |
| <b>Team Manager:</b> 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        |
| <b>Team Manager:</b> Dr. Rudresh, B.H., NSS Programme Officer, Veterinary College, Shivamogga |                       |                     |                                  |



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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:**

- 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.
- 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
- 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)<br>Veterinary College, Bidar  | 1 <sup>st</sup> - 7 <sup>th</sup> Sep, 2017 |
| 2 | Dr. Satishchandra Biradar | NSS Programme Officer (Unit II)<br>Veterinary College, Bidar | 1 <sup>st</sup> - 7 <sup>th</sup> Sep, 2017 |
| 3 | Dr. Guruprasad, R.        | NSS Programme Officer<br>Veterinary College, Hassan          | 1 <sup>st</sup> - 7 <sup>th</sup> Sep, 2017 |
| 4 | Dr. Pradeep Chawan        | NSS Programme Officer<br>Veterinary College, Gadag           | 6 <sup>th</sup> -12 <sup>th</sup> Mar, 2018 |

- 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,<br>Mangaluru (Taluk), Dakshin<br>Kannada (Dist.)     | 11-17 <sup>th</sup><br>November, 2017                       |
| 2 | Dairy Science College, Kalaburagi | Dongargaon Village, Kalaburagi<br>(Taluk), Kalaburagi (Dist)                   | 16-22 <sup>nd</sup><br>January, 2018                        |
| 3 | Dairy Science College, Bengaluru  | Doddatumakuru village,<br>Doddaballapura taluk (Tq),<br>Bengaluru Rural (Dist) | 1 <sup>st</sup> to 7 <sup>th</sup> Feb<br>2018              |
| 4 | Veterinary College, Bidar         | Malegaon Village, Bidar (Taluk),<br>Bidar (Dist)                               | 23 <sup>rd</sup> February to<br>1 <sup>st</sup> March, 2018 |
| 5 | Veterinary College, Bengaluru     | Doddaluvara Village, Somavarapete<br>(Taluk), Kodagu (Dist)                    | 19-25 <sup>th</sup><br>March, 2018                          |
| 6 | Veterinary College, Shivamogga    | Sogane Village, , Shivmogga (Taluk),<br>Shivamogga (Dist)                      | 19-25 <sup>th</sup><br>March, 2018                          |
| 7 | Veterinary College, Hassan        | Kommanahalli, Dudda Hobli, Hassan<br>(Taluk), Hassan (Dist)                    | 24-30 <sup>th</sup><br>March, 2018                          |



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   |
|---|---|---|
| <b>VETERINARY COLLEGE, BENGALURU</b>    |   |   |
| 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 <sup>nd</sup> and 29 <sup>th</sup> Nov,<br>6 <sup>th</sup> , 13 <sup>th</sup> and<br>27 <sup>th</sup> Dec., of<br>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 |
| <b>VETERINARY COLLEGE, BIDAR</b>        |   |   |
| 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.  |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b>   |   |   |
| 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   |
| <b>VETERINARY COLLEGE, HASSAN</b>       |   |   |
| 1                                       | 21.06.2017  | International Yoga Day was celebrated   |
| 2                                       | 1-15 <sup>th</sup> Aug.,<br>2017  | Swachhata Pakhwada (Swachhata Fortnight) was observed   |
| 3                                       | 15.08.2017  | In commemoration of the 75 <sup>th</sup> 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.  |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b> |   |   |
| 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  |



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|  |            |   |
|--|------------|---|
| 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  |
| <b>DAIRY SCIENCE COLLEGE, KALABURAGI</b> |            |   |
| 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   |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>   |            |   |
| 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   |



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## 9) Other co-curricular activities

### VETERINARY COLLEGE, BIDAR

| #  | Date       | Activity   |
|--|------------|--|
| <b>University Level Jayanti Celebrations and important programmes of College</b> |            |  |
| 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 Dombur 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. <i>M/s. Virbac India Pvt. Limited</i> 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 Modi’s address at 10.30 AM on the occasion of Pandit Deendayal Upadhyaya’s Centenary Celebration and 125 <sup>th</sup> 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 Shreshtha 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 <sup>rd</sup> 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. |



|  |                                |   |
|--|--------------------------------|---|
| 7  | 21.02.2018                     | Hostel day “ <i>URDHWA</i> ” 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. |
| <b>Student Co-Curricular and Extra Curricular Activities</b> |                                |   |
| 9  | 02.12.2017<br>to<br>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<br>to<br>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<br>to<br>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 <sup>th</sup> All India Agri Sports Meet (2017-18) held at University of Agricultural Sciences, Bengaluru.  |
| 14   | 12.02.2018<br>to<br>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 <sup>th</sup> All India Inter Agricultural Universities Youth Festival “AGRI UNIFEST 2018” held at Sri Venkateswara Veterinary University, Tirupati.   |
| 15   | 26.02.2018<br>to<br>03.03.2018 | A special coaching class to UG students for ICAR-JRF/SRF Entrance Examination was conducted.  |
| 16   | 02.03.2018<br>to<br>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<br>to<br>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 Honb'le 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 student had actively participated in various cultural activities. |
| 2 | 15.03.2018<br>to<br>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<br>World Milk Day<br>Dairy Science College, Bengaluru  |
| 2 | 05.06.2017                     | Hebbal, Bengaluru | Planting and watering the plants on the premises of the College campus<br>World Environmental Day<br>Dairy Science College, Bengaluru  |
| 3 | 21.06.2017<br>to<br>22.06.2017 | Hebbal, Bengaluru | Yoga sessions including pranayama, Suryanamskara, meditations, importance of mudras, general health consciousness etc, were conducted for the staff and students<br>International Yoga Day<br>Dairy Science College, Bengaluru |



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### DAIRY SCIENCE COLLEGE, KALABURAGI

| # | Date                           | Activity   |
|---|--------------------------------|--|
| 1 | 16.01.2018<br>to<br>25.01.2018 | RDWE Camp organized by Dr. Sharanagouda 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<br>to<br>22.07.2017 | READY programe organized by Dr. Sharangouda B, Associate Professor and Head Dairy Technology Dept. from 6 <sup>th</sup> to 22 <sup>nd</sup> 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. Jnaneshwar 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<br>to<br>11.01.2018 | A cultural fest was organized for 2 days for the students. An ethnic day was celebrated on 11 <sup>th</sup> in which the staff and students were dressed in traditional attire  |
| 5 | 15.03.2018                     | The Women Grievance Reddressal 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<br>to<br>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 <sup>st</sup> 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. Yogesh, 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          |



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|    |            |  |
|----|------------|--|
| 5  | 05.09.2017 | Celebration of Teachers Day                      |
| 6  | 02.10.2017 | Celebration of Gandhi Jayanathi                  |
| 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<br>to<br>11.12.2017 | Krishi Mela                                |
| 2 | 04.01.2018                     | Farmers meet                               |
| 3 | 04.03.2018<br>to<br>06.03.2018 | Training to farmer regarding dairy farming |
| 4 | 07.03.2018<br>to<br>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-UTTARAKANNADA**

- \* Ambedkar Jayanti was Celebrated at FRIC(M), Ankola on 14.04.2017 and Dr. Chandrakant Lingadhhal, 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 Lingadhhal, Assistant Professor and Head addressed the staff of FRIC(M), Ankola.
- \* Dr. Chandrakant Lingadhhal 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 Lingadhhal, 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 Lingadhhal, 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 Lingadhhal, Assistant Professor and Head spoke on Valmiki and his contribution.



- \* Kanaka Jayanti was celebrated at FRIC(M), Ankola on 06.11.2017 and Dr. Chandrakant Lingadhhal, Assistant Professor and Head addressed the staff on occasion .
- \* Dr. Chandrakant Lingadhhal 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 Lingadhhal explained Centers activities and shrimp culture practices to MPEDA, Karwar trainees on 26.10.2017 (20 trainees visited the Centre).
- \* Dr. Chandrakant Lingadhhal 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 &amp; Information provided</i>           |
|--------------|--|----------------------|---|
| 1            | Mr. Gururaj Umesh Naik<br>P.M High School, Ankola    | 11.12.2017           | Environmental friendly brackish water fish culture      |
| 2            | Mr. Monish Ashok Naik<br>PM High School, Ankola      | 18.12.2017           | Better Management practices in shrimp farming           |
| 3            | Mr. Sameer Sadik Shaikh<br>PM High School, Ankola    | 18.12.2017           | Better Management practices in shrimp farming           |
| 4            | Mr. Manoj Shankar Gouda<br>PM High School, Ankola    | 18.12.2017           | Fresh water prawn farming                               |
| 5            | Mr. Shahil Manoj Ankolekar<br>PM High School, Ankola | 18.12.2017           | Fresh water prawn farming                               |
| 6            | Mr. Ganesh Shivanand Naik<br>PM High School, Ankola  | 18.12.2017           | Environmental friendly brackish water fish culture      |
| 7            | Mr. Suhas D Naik<br>PM High School, Ankola           | 18.12.2017           | Environmental friendly brackish water fish polyculture. |
| 8            | Mr. Raguveer R Naik<br>PM High School, Ankola        | 18.12.2018           | Environmental friendly brackish water fish polyculture  |
| 9            | Mr. Sumant Anil Naik<br>PM High School, Ankola       | 21.12.2017           | Better Management practices in shrimp farming           |
| 10           | Mr. Suraj V Naik<br>PM High School, Ankola           | 21.12.2017           | Better Management practices in shrimp farming           |



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



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|                                       |   |                                  |       |         |         |                     |
|---------------------------------------|---|----------------------------------|-------|---------|---------|---------------------|
| 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.         |
| <b>VETERINARY COLLEGE, BIDAR</b>      |   |                                  |       |         |         |                     |
| 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     |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |   |                                  |       |         |         |                     |
| 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.    |
| <b>VETERINARY COLLEGE, HASSAN</b>     |   |                                  |       |         |         |                     |
| 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. Chandrashekar  |



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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.     |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b> |  |                 |       |           |         |                    |
| 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 Glycomacropetides (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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| DAIRY SCIENCE COLLEGE, KALABURAGI |   |  |       |         |         |                      |
|-----------------------------------|---|--|-------|---------|---------|----------------------|
| Dairy Techno<br>logy              | Standardization of production of Malpuri - A local sweet of Kalaburagi  | KVAFSU                                 | 0.10  | 2016    | 2017    | Sharangouda, B.      |
| 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 shell fish 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 Laboratory, 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    | -       | Lakshmipathi, M.T.   |

|   |  |  |        |         |         |                      |
|---|--|--|--------|---------|---------|----------------------|
| 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-NBFR                                  | 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      |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |  |  |        |         |         |                      |
| 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 Petitis 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 $\beta$ -casein gene  | IAH and VB      | 1.00   | 2016-17 | 2017-18 | Rashmi              |
| <b>CANINE RESEARCH AND INFORMATION CENTER (MH), TIMMAPUR, BAGALKOT</b> |  |                 |        |         |         |                     |
| 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 |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL</b>               |  |                 |        |         |         |                     |
| 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     |

## 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, Mandya     | -                 | -                  |
| 18           | Buffalo, Research and Information Center, Dornalli, Yadgiri         | -                 | -                  |
| 19           | Canine, Research and Information Center, Thimmapur, Bagalkot        | 03                | 300.00             |
| <b>Total</b> |   | <b>54</b>         | <b>839.67</b>      |

### 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.





### **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<sub>4</sub> 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



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 19<sup>th</sup> January, 2017.
- \* Group 1: Autogenous inactivated MAP vaccine administered through subcutaneous (S/C) route.
- \* Group 2: Indigenous inactivated S5 strain MAP vaccine (CIRG, Makhdoom, UP) administered through S/C route.
- \* Group 3: Control group (Unvaccinated animal).
- \* Each animal was challenged with live MAP culture at dose rate of  $3 \times 10^9$  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 epithelioid 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*.



### **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 haemoprotozoan 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, Mandya District. Indirect ELISA was carried out to find out sero prevalence of disease. Out of 680 serum samples, 121 were sero positive with prevalence rate of 17%.
- \* 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 chording 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<sup>-1</sup>, 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.



### **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  
ಕರ್ನಾಟಕ ವೇತನಾರ್ಥಿ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

- 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 Amruthmahal 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.

- \* 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  $148.27 \pm 0.46$ ,  $119.88 \pm 0.35$ ,  $158.79 \pm 0.43$ , and  $121.56 \pm 0.27$  cms respectively.
- \* The average lactation milk yield for the Amruthmahal cow under present study was  $583.79 \pm 5.83$  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  $5.05 \pm 0.01$  % and ranged from 4.0 to 6.10 % in different cows. The overall average solids not fat percentage of Amruthmahal cow milk is  $9.063 \pm 0.01$  % and ranged from 8.01 to 9.60 % in different cows. The average lactation period of Amruthmahal cows is  $501.55 \pm 1.97$  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  $501.56 \pm 1.97$  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 hardness, 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, 26-28<sup>th</sup> 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 2<sup>nd</sup> October



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*

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 the 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, Sankanahalli, Rajagere, Tattahalli, 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 all 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%).



- \* 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 ( $5.13 \pm 0.37$ ) and towards alkaline ( $8.2 \pm 0.48$ ) 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 ( $6.49 \pm 0.44$  millions/cumm), Hb ( $12.06 \pm 1.02$  gm/dL) is seen and leucocytosis ( $18.41 \pm 1.90$  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 ( $44.88 \pm 2.8$  mg/dL) and Ruminal acidosis ( $40.75 \pm 4.17$  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 Conversion rate (FCR) and Scientific growth rate (SGR).



**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 monocytogens* with a MIC concentration of 20µg/ml. The mild activity was observed on *Salmonella* sp with a MIC of 80µg/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



(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*) **Coscinodiscus**- *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*, *Coscinodiscus*) Dinoflagellates – (*Ceratium*, *Peridinium* were dominant) Blue green algae- (*Tricodesmium*)
- \* **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 polycathates 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- (*Tricodesmium*)
- \* 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 revealed that there was no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout and no 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
- \* 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**

| Area    | Malpe        |               | Mangaluru    |               |
|---------|--------------|---------------|--------------|---------------|
|         | 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   |



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.



- \* 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



### **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 $\beta$ -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, Hesaraghatta, Bengaluru.                                     | Hallikar     | 05            | 00                 | 00        | 05        | 00             | 00            | 100           |
| SLBTC, Hesaraghatta, Bengaluru.                                    | Surti        | 05            | 00                 | 00        | 05        | 00             | 00            | 100           |
| <b>Total</b>   |              | <b>102</b>    | <b>04</b>          | <b>20</b> | <b>78</b> | <b>3.92%</b>   | <b>19.61%</b> | <b>76.47%</b> |

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           | <b>92.90 ± 0.70 **</b>              | <b>85.70 ± 0.64 **</b>                |
| 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     | <b>76.62 ± 0.49 **</b>              | <b>69.56 ± 0.49 **</b>                |
| 06  | Height at Rump        | 76.07 ± 0.37                        | 69.80 ± 0.45                          |
| 07  | Chest Girth           | <b>72.93 ± 0.67 **</b>              | <b>66.56 ± 0.56 **</b>                |
| 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.

**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  | Pottassium (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



## 2) Ongoing Projects

### a) Research Details

| <i>Depts.</i>                        | <i>Title</i>  | <i>Funding Agency</i>    | <i>Budget (in lakhs)</i> | <i>Yr. of Comt.</i> | <i>Principal Investigator</i> |
|--------------------------------------|---|--------------------------|--------------------------|---------------------|-------------------------------|
| <b>VETERINARY COLLEGE, BENGALURU</b> |   |                          |                          |                     |                               |
| 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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|         |  |                                       |       |         |                       |
|---------|--|---------------------------------------|-------|---------|-----------------------|
| 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.            |
| <b>VETERINARY COLLEGE, BIDAR</b>      |   |  |       |                                   |                        |
| 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                              | Channappagouda Biradar |
|                                       | Establishment of hatchery units for supply of chicks to backward poultry farmers  | RKVY   | 35.00 | Unspent amount of 2012-13 project | Satishchandra Biradar  |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |   |  |       |                                   |                        |
| 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          |

|     |  |                                   |        |         |                         |
|-----|--|-----------------------------------|--------|---------|-------------------------|
| 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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ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲಾ ಪ್ರಾಂಶುಪಾಲಕರು

|                                   |   |                |       |         |                      |
|-----------------------------------|---|----------------|-------|---------|----------------------|
| 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, Haematology 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 | Sundareshan          |
| VMC                               | Evaluation of causative agents and their antimicrobial sensitivity patterns in recurrent ear infections in canines                              | KVAFSU         | 0.20  | 2016-17 | Arun                 |
| <b>VETERINARY COLLEGE, HASSAN</b> |   |                |       |         |                      |
| 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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|  |   |                       |       |               |                         |
|--|---|-----------------------|-------|---------------|-------------------------|
| 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.           |
| <b>VETERINARY COLLEGE, GADAG (VCG)</b> |   |                       |       |               |                         |
| 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 sorghum in northern dry zone of Karnataka  | KVAFSU                                 | -     | 2017    | Mahantesh Nekar       |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU (DSCH)</b>  |   |  |       |         |                       |
| 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.         |
| <b>DAIRY SCIENCE COLLEGE, KALABURAGI (DSCK)</b> |   |  |       |         |                       |
| DT  | Standardization of production of Pumpkin Halwa - A local sweet of Hyderabad Karnataka   | KVAFSU                                 | 0.10  | 2017    | Sharangouda, B.       |
| <b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>    |   |  |       |         |                       |
| 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 Laoboratory, 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 | Lakshmipathi, M.T.   |
| 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  | 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        |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |   |                                |         |         |                  |
| 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   | Government 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 Haemoprotozoan 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.           |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b>   |   |                                   |        |         |                        |
| 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        |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA</b> |   |                                   |        |         |                        |
| LRIC (Sheep)  | Mega Sheep Seed Project (Mandya Sheep) (ICAR funded project)  | ICAR                              | 28.30  | 2009    | Siddalingamurthy, H.K. |



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| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (A), KONEHALLI</b>       |  |   |        |         |                 |
|---|--|---|--------|---------|-----------------|
| 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 |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL</b>              |  |   |        |         |                 |
| 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    |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER (MARINE), ANKOLA</b>     |  |   |        |         |                 |
| FRIC (Merine)   | All India Network Project on Mariculture   | CMFRI Kochi                                 | 13.50  | 2017-18 | E.G. Jayaraj    |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b> |  |   |        |         |                 |
| FRIC-Bhutnal  | Demonstratiion and Impact assessment of substract based aquacluture 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.       |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU</b> |   |                 |        |      |                       |
| AHP-K  | Establishment of Centre of Excellence for transfer of technologies in animal production                               | RKVY            | 410.00 | 2017 | Shivakuamr, R.        |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, SHIGGAON-HAVERI</b>   |   |                 |        |      |                       |
| AHP-S  | Livestock Support and Extension Activities under Sujala 3, Gadag district   | KWDP, GoK       | 14.00  | 2014 | Shivakumar, K. Radder |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, DORNALLI-YADGIR</b>   |   |                 |        |      |                       |
| 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-Mandya                         | 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              |
| <b>Total</b> |  | <b>133</b>        | <b>16910.41</b>    |



## **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.



**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 (*INHα*, *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 heterophyllus*), 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.



### **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 Lalbagh, 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  $\mu\text{g}$  with an average of 514  $\mu\text{g}$  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 MBL<sub>1</sub> gene
- \* 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.



### **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 GeneiPure<sup>SM</sup> Bacterial 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



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 19<sup>th</sup> to 23<sup>rd</sup> 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.



- \* 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 75<sup>th</sup>, 77<sup>th</sup> and 79<sup>th</sup> day post vaccination (DPV) through oral route.
- \* Study animals will be sacrificed on 90<sup>th</sup>, 240<sup>th</sup> and 300<sup>th</sup> 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<sup>o</sup>C for further molecular diagnosis.



### **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 2<sup>nd</sup> 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 trail 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.



**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, Swarnadhara 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**

- \* 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**

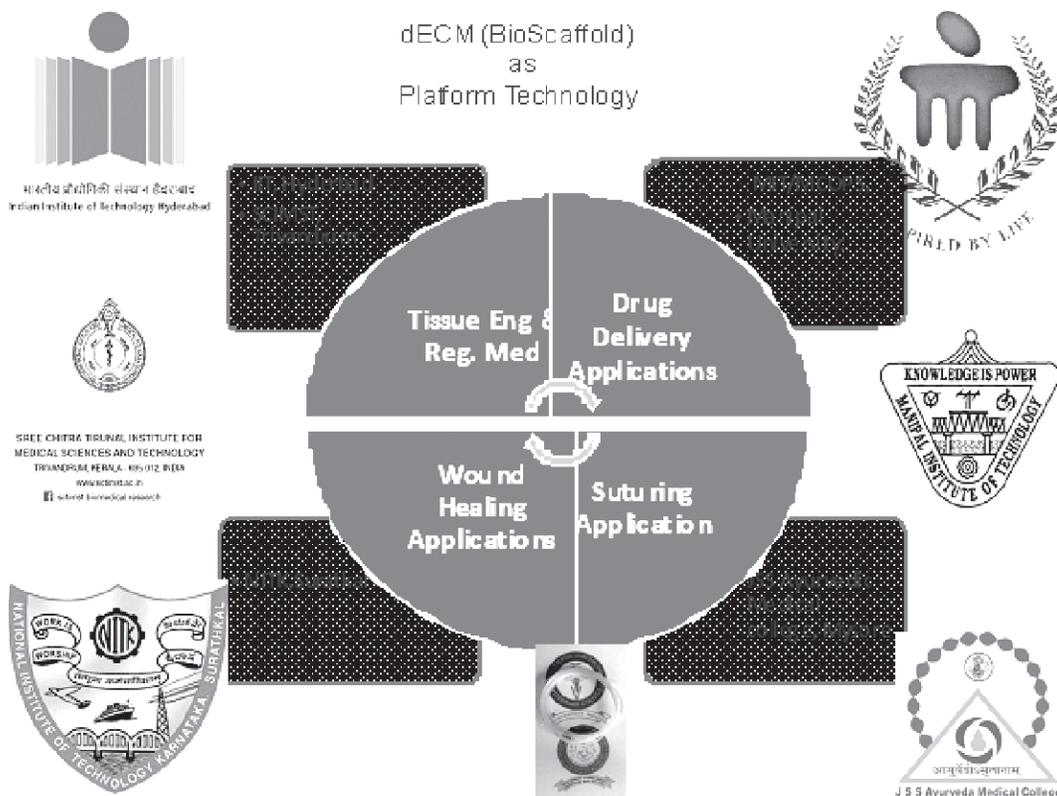
- \* Identified *B. anthracis* from field samples collected during Anthrax outbreaks from Karnataka.
- \* Molecular confirmation of the isolates using genes coding for protective antigen (PA) and capsule by polymerase chain reaction (PCR).
- \* Standardized Co-agglutination test (CAT) for the detection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



RURAL ORIENTED & FARMER FRIENDLY  
Requirements of Food & Agri.

## 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.



**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 2<sup>nd</sup> 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 go 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, Haematogy 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  
Kuvempu University, Shivamogga

**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.



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

- \* Propagated kefir grains with production of 3 grams for every 15 days.
- \* The inoculums level of 0.5 per cent is identified as best for preparation of *dahi* as it set milk in 8 hours at room temperature.
- \* *Dahi* prepared using kefir grain had 0.70 per cent of lactic acid, with no ethanol and diacety production with 8.5 hedonic scale for acceptability.
- \* Kefir grain remains at the bottom and can be collected and used as inoculums 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 is 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 3<sup>rd</sup> 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 whittings, red snapper and pearl spot along Udupi coast, while in Dakshina Kannada District, sandwhittings and mullets were restricted to Mulki-Pavanje stretches with no prioritized fish species between Gurupur-Nethravathi stretches.



**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  $18.70 \pm 1.05$ 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.

\* **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 28 seafood) 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%

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 - Hesharagatta, 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 Kolar, 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



- \* 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 NACAMCCB 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- (*Tricodesmium*)



- \* **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 polycathates 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- (*Tricodesmium*)
- \* 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 revealed that there was no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout and 0 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

- \* 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.

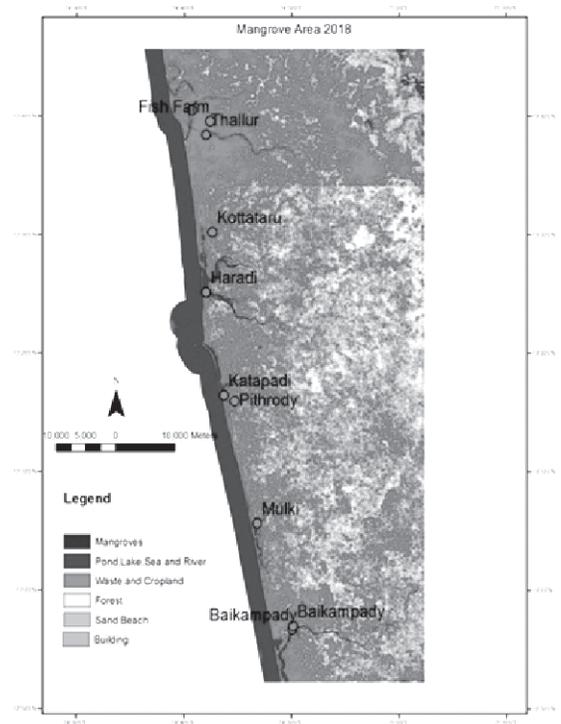
**Title: Assessment of water quality along fisheries harbour, South Wharf, Mangaluru**

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

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

- \* The project is implemented in Beltangadi taluk of Dakshina Kannada district under two gram panchayaths, (Nada and Melanthabettu) 4 villages from each gram panchayaths 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**



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**

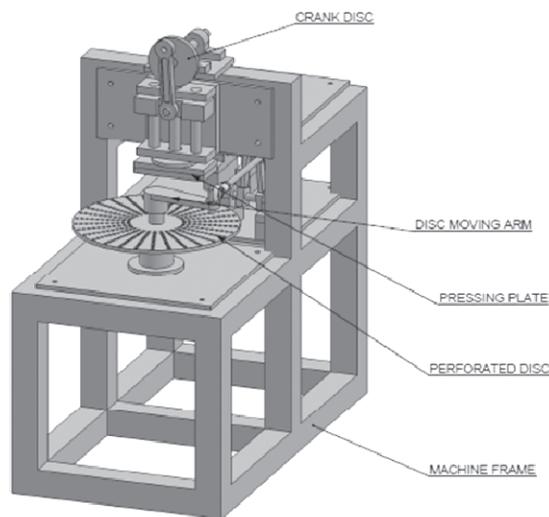
- \* Fresh sardine fish mince subjected various pH values (5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8 and 5.9) of citrate phosphate buffers. The minces meat mixed and homogenised with 15 ml of various pH values centrifuged at 20,000 rpm at 4° C for 30 min, the middle aqueous layers obtained at each 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 ( $p^I$ ) 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 ( $p^I$ ) 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**

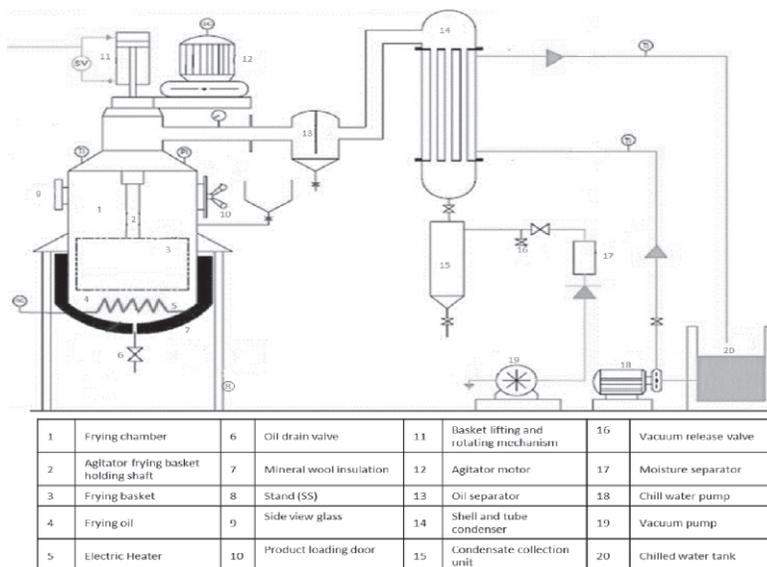
A piston operated pressing type meat picking machine was designed by keeping the fishes on a perforated plate. The design of the pressing /piston type fish meat picking machine was finalized through drawing and auto cad designing. In this, the crank shaft operated through a motor will press the fishes 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.

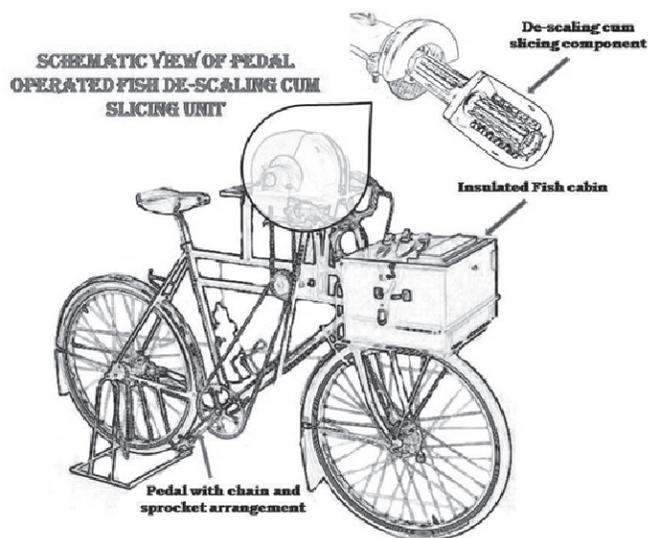


**Design of Piston type Fish meat picking machine**

**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.





#### 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.

#### INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

**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         |
|         | <b>TOTAL</b>               | <b>121</b> | <b>13982</b> | <b>3178</b> |

### 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          |
|         | <b>TOTAL</b>               | <b>98</b> | <b>1724</b> | <b>490</b> |

### 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                             |
| <b>Total</b> | <b>81</b>        | <b>-</b>                          | <b>216</b>                        | <b>138</b>            | <b>-</b> | <b>-</b> | <b>78</b> | <b>13266</b>  | <b>13482</b>                   |

- \* The regional center has received the pre and post vaccination serum samples of twelve and thirteen phase of FMD-CP. The 12<sup>th</sup> 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 12<sup>th</sup> phase are presented in table below. 6000 samples of pre and 6000 samples of post (Phase 12<sup>th</sup>) 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<br>(75%)   | 4942<br>(83%) | 5247<br>(88%) | 5386<br>(90%) | 4642<br>(74%)   | 5021<br>(84%) | 4196<br>(70%)            | 4739<br>(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%, 26<sup>th</sup> day 52% and 56<sup>th</sup> 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<br>Dr. Lohith T S | 14.09.2017 To 15.09.2017<br>Frozen Semen Bank, Dept. of VGO,<br>Veterinary College, Namakkal, TN | 16             |
| 2.      | Dr. Sudharani R<br>Dr. Rashmi S      | 21.11.2017 to 24.11.2017<br>FSBS, Visakapatnam,<br>Andhra Pradesh                                | 60             |
| 3.      | Dr. Shivaraj M<br>Dr. Rashmi S       | 07.11.2017 to 10.11.2017SSCC,<br>Hessaraghatta, Bengaluru  | 58             |

|     |  |   |     |
|-----|--|---|-----|
| 4.  | Dr. Shivaraj M<br>Dr. Rashmi S                 | 07.11.2017 To 10.11.2017<br>LBF, Hessaraghatta, Bengaluru                   | 21  |
| 5.  | Dr. Shivaraj M<br>Dr. Rashmi S                 | 07.11.2017 to 10.11.2017<br>SLBTC (Cows), Hessaraghatta,<br>Bengaluru       | 78  |
| 6.  | Dr. Shivaraj M<br>Dr. Rashmi S                 | 05.12.2017 to 12.12.2017<br>SLBTC, Hessaraghatta, Bengaluru,<br>Karnataka   | 78  |
| 7.  | Dr. Venkatesha M D<br>Dr. Lohith T S           | 13.12.2017 to 16.12.2017<br>DLF, Hosur, Tamil Nadu                          | 127 |
| 8.  | Dr. Shivashankar B P                           | 18.12.2017 to 22.12.2017<br>KLDB, Dhoni, Kerala                             | 135 |
| 9.  | Dr. Shivaraj M<br>Dr. Rashmi S                 | 19.12.2017 to 22.12.2017<br>CFSPPTI, Hessaraghatta, Bengaluru,<br>Karnataka | 76  |
| 10. | Dr. B.M. Chandranaik<br>Dr. B.P. Shivashankar  | 29.01.2018 to 02.02.2018<br>FSBS. Karimangar,<br>Telangana                  | 80  |
| 11. | Dr. B.P. Shankar<br>Dr. T.S. Lohith            | 29.01.2018 to 02.02.2018<br>FSBS, Eachenkottai,<br>Tamil Nadu               | 186 |
| 12. | Dr. H.K. Muniyellappa<br>Dr. B.P. Shivashankar | 28.02.2018 to 02.03.2018<br>KLDB,<br>Kolathupuzha, Kerala                   | 80  |
| 13. | Dr. R. Sudharani<br>Dr. S. Rashmi              | 27.02.2018 to 02.03.2018<br>FSB,<br>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<br>07.07.2017 | 6                   |
| 4       | Organized refresher training programme on "Control and Containment of Avian Influenza" at SRDDL, Bengaluru                                   | 29.07.2017                  | 32                  |

|   |   |                          |    |
|---|---|--------------------------|----|
| 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 trails
- \* 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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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪಶುವೈದ್ಯಕೀಯ, ಪಕ್ಷಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

### **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, Dvanagere
- \* 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 I<sup>st</sup> 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  $4.0 \times 10^9$  CFU per dose and reduced dose  $4.0 \times 10^8$  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



**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 –  $10^{5.83}$ TCID<sub>50</sub>/ml
  - o Expanded surface rollers –  $10^{6.49}$ TCID<sub>50</sub>/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 haemoprotozoan 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 Haemoprotozoa, but we found Cytauxzoon and Haemobartonella all samples, blood smears are found positive for haemoprotozoa 4% in Lions, 3.5% in tigers and 2.0% in leopards



### **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 and 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 anatolicum* 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.

**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        |
| <b>Total</b>   |              | <b>60</b>     | <b>53</b>         | <b>00</b> | <b>60</b> | <b>00</b> | <b>60</b> | <b>00</b> | <b>53</b> | <b>00</b> |



**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 (Mandya Sheep) (ICAR funded project)**

- \* The overall goal of Mega Sheep Seed Project –Mandya Sheep is genetic improvement of Mandya 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 31<sup>st</sup> March, 2018 (subject to final AUC). During the financial year ending 31<sup>st</sup> 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. Topping and lambing percentage based on ewe available basis was found to be 97.09% and 93.46%, respectively, whereas the lambing percentage on topped 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  $2.16 \pm 0.01$ ,  $11.14 \pm 0.11$ ,  $16.01 \pm 0.09$ ,  $18.24 \pm 0.28$  and  $22.35 \pm 1.16$  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  $2.10 \pm 0.01$ ,  $10.61 \pm 0.06$ ,  $15.58 \pm 0.20$ ,  $17.53 \pm 0.06$  and  $21.35 \pm 0.08$  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.



## 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; posphorus (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.



- \* 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, CO<sub>2</sub>, 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 CO<sub>2</sub> 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.



### **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 Vijayapura 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 survivality 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



- \* **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 3<sup>rd</sup> 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 |
|---|--|-------------|---|---------|
| <b>DIRECTORATE OF RESEARCH, KVAFSU, BIDAR</b> |  |             |   |         |
| 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 invest 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 |
|---|--|-------------|--|---------|
| <b>DIRECTORATE OF RESEARCH, KVAFSU, BIDAR</b> |  |             |  |         |
| 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"> <li>• Establishment of protein and fibre fraction in feed of local, nutritional and regional importance (up to 6 months - ALTECH).</li> <li>• Microbial biomass synthesis as influenced by feed formulation with combination of ALTECH feed additives (6-18 months - Altech).</li> <li>• Microbial biomass synthesis as influenced by fermentation modulators. Natural plant constituents and feed ingredients (18-30 months-Altech/LPM).</li> <li>• Evaluation of nitrogen substitutes for soybean meal (0-6 months-Altech/LPM).</li> <li>• Fodder and feed preservation by ensiling (LPM).</li> <li>• Diet formulation and feed trails (LPM/AN).</li> <li>• Rumen kinetics and fermentation characteristics studies through in vitro models (batch fermentation and syringe method) (LPM/Altech).</li> </ul> | <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> |
|--|-----------------------|---|--|

#### 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.



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  |
|--------------------------------------|---|--|------|---|
| <b>VETERINARY COLLEGE, BENGALURU</b> |   |  |      |   |
| 1                                    | Mutturaj Yadav,<br>Kiran, M.<br>Jagadeeswary, V. and<br>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 <sup>th</sup> April, 2017. |
| 2                                    | Mutturaj Yadav,<br>Jagadeeswary, V. and<br>Satyanarayan, K.   | Best paper award                                       | 2018 | 7 <sup>th</sup> National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shivamogga, 29-31 <sup>st</sup> January 2018.  |
| 3                                    | Kiran, M.<br>Satyanarayan, K. and<br>Jagadeeswary, V.   | Best paper award                                       | 2018 | 7 <sup>th</sup> National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shivamogga, 29-31 <sup>st</sup> January 2018.  |
| 4                                    | Chandrashekar, G.K.,<br>Jagadeeswary, V. and<br>Satyanarayan, K.  | Best paper award                                       | 2018 | 7 <sup>th</sup> National Conference on Shaping Livestock Extension Advisory Services for Doubling Farmers income By IVEF & KVAFSU, Shivamogga, 29-31 <sup>st</sup> January, 2018.   |
| 5                                    | Ajith, K.S., Madhura,<br>Y., Arpitha, R.,<br>Chandrapal Singh, K.,<br>Krishnamoorthy, U.,<br>Prabhu, T.M.,<br>Narasimhamurthy,<br>H.N. and Gloridoss,<br>R.G. | Best Poster<br>Presentation<br>Award<br>(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 Isloor  | Fellow of ISVIB-2017  | 2017 | Indian Society for Veterinary Immunology and Biotechnology (ISVIB) during Annual Convention of ISVIB - VIBCON 2017 |
| 12 | Shrikrishna Isloor  | 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 |
| <b>VETERINARY COLLEGE, BIDAR</b> |  |  |         |                                     |
| 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 <sup>th</sup> 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<br>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  |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |  |  |                             |   |
| 1                                     | Dhoolappa Melinamani   | First runner-up award @ JUGAAD-A-THON-2017, an open competition in a Global Final Demo Day | 17 <sup>th</sup> June, 2017 | Consortia for Affordable Medical Technologies (CAMTech-X) a unit of MASSACHUSETTS 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 Lakshmishree, K.T.  | Tata Social Enterprise Challenge-2018 nominated as top 20 team <b>'BioPatch'</b>           | 4-6 <sup>th</sup> Jan, 2018 | Innovation Park, Indian Institute of Management, Kolkata  |
| 5                                     | Ananda, K.J.   | Best Scientist Award   | 2017                        | 5 <sup>th</sup> Faculty Branding Awards-2017 Held at Kolkata  |



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|                                   |                  |  |                                   |  |
|-----------------------------------|------------------|--|-----------------------------------|--|
| 6                                 | Ananda, K.J.     | Certificate of Appreciation for Oral presentation  | 2017                              | During 26 <sup>th</sup> 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 <sup>th</sup> 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   |
| <b>VETERINARY COLLEGE, HASSAN</b> |                  |  |                                   |  |
| 1                                 | Girish, B.C.     | Best Oral Presentation Award   | 2-3 <sup>rd</sup> November 2017   | University of Malaysia Kelantan, National Conference on emerging trends in Agrinotechnology-2017, Tirupati   |
| 2                                 | Girish, B.C.     | Best Poster Award  | 9-11 <sup>th</sup> 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  |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>                                  |                     |  |      |  |
| 1   | E.G. Jayaraj        | 2 <sup>nd</sup> best poster paper presentation award | 2018 | Instituted by Reva University, Bengaluru   |
| 2   | Puneeth, T.G.       | Best Poster award                                    | 2017 | Nitte University, Deralakatte, Mangaluru   |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |                     |  |      |  |
| 1   | K. Sripad           | II <sup>nd</sup> 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 presentation                   | 2017 | XV Biennial Conference and National Symposium” at Rajendranagar, Hyderabad                             |
| 4   | Sobha Rani          | IAAVR Merit Award                                    | 2018 | Vety. Biologicals at 18 <sup>th</sup> 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 |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b>     |                     |  |      |  |
| 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 Isloor<br>Associate Professor<br>Veterinary College<br>Bengaluru | Molecular epidemiology and genomics of mastitis associated staphylococci  | DBT                            | 2017             | 2 Years  | 95.63                          |
| 2  | M.N. Venugopal<br>Dean<br>College of Fisheries<br>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.<br>Assistant Professor<br>Veterinary College<br>Hassan     | Back Yard Rabbit farming for rural women empowerment  | DST                            | 2016             | 3 Years  | 52.88                          |
| 4  | Y.B. Rajeshwari<br>Veterinary College<br>Bengaluru                          | Feed and fodder evaluation and development of cost effective feeding strategies to increase ruminant production and reduce environmental impact | Alltech<br>India,<br>Bengaluru | 2013             | 5 Years  | 60.00                          |
| 5  | Vivek, M. Patil<br>Assistant Professor<br>LRIC (Deoni)<br>Halikhed          | Field performance recording of Deoni Cattle in Bidar District   | NPBB                           | 2016             | 3 Years  | 60.00                          |
| 6  | G.S. Naveenkumar<br>Assistant Professor<br>Veterinary College<br>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  | Hemant Gowda<br>Veterinary College<br>Hassan                                | Life Cycle assessment of green house gas emission from different animal production systems of Karnataka   | NICRA,<br>Hydrabad<br>(ICAR)   | 2016             | 3 Years  | 27.15                          |



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|  |   |   |                              |      |         |       |
|--|---|---|------------------------------|------|---------|-------|
| 2  | Kiran, M.<br>Assistant Professor<br>Veterinary College<br>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 |
| <i>IV) Project(s) worth of Rs. 5.00 lakhs and up to Rs. 25.00 lakhs (Certificate of Merit to PI)</i> |   |   |                              |      |         |       |
| 1  | S.K. Girish<br>Assistant Professor<br>College of Fisheries<br>Mangaluru     | Development of therapeutic phage consortia to manage aeromonas hydrophila infection in aquaculture systems  | DBT                          | 2017 | 3 Years | 21.00 |
| 2  | Kumar Naik, A.S.<br>College of Fisheries<br>Mangaluru                       | Inventorying 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<br>(SERB)                | 2016 | 2 Years | 11.00 |
| 3  | Shivanand Murthy<br>Professor & Head<br>College of Fisheries<br>Mangaluru   | Studies on evaluation of polyherbal compounds in shrimps  | Natural<br>Remedies<br>Blore | 2016 | 3 Years | 8.00  |
| 4  | Srikrishna Isloor<br>Associate Professor<br>Veterinary College<br>Bengaluru | KVAFSU / CVA / Crucell Rabies Diagnostic Laboratory   | Revolving<br>Fund            | 2015 | -       | 5.44  |
| 5  | M.N. Venugopal<br>Dean<br>College of Fisheries<br>Mangaluru                 | Technical service to aquaculture fish processing and industrial establishment and the public  | KVAFSU                       | -    | -       | 5.00  |

**7) Important decisions taken during 12<sup>th</sup> Research Council Meeting held on 07.06.2017 at KVAFSU, Bidar**

1. Project funded by Private Industries / Partiers 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.



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### 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                                  |
|--|---------------------|------------------------|---|---|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                     |                        |   |   |
| 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  |
|--|---------------------|-------------------------------|---|---|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                     |                               |   |   |
| 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   |
|---|--------------------------|---------|---|--|
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |                          |         |   |  |
| 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 |



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## ii) National Level

### a) Conference:

| #   | Date  | Place                                | Title  | Organized by  |
|---|---|--------------------------------------|--|---|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b>  |   |                                      |  |   |
| 1   | 29-31<br>January,<br>2018                                 | Veterinary<br>College,<br>Shivamogga | Shaping livestock extension advisory services for doubling the farmers income  | IVEF and KVAFSU   |
| 2   | 2-3<br>June, 2017   | Veterinary<br>College,<br>Bengaluru  | Innovative and Emerging Biochemical and Biotechnological tolls to augment animal health and production                           | Department of Veterinary Biochemistry                     |
| <b>VETERINARY COLLEGE, BIDAR (VCB)</b>      |   |                                      |  |   |
| 1   | 21 <sup>st</sup> to 22 <sup>nd</sup><br>December,<br>2017 | Veterinary<br>College,<br>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 |
| <b>VETERINARY COLLEGE, SHIVAMOGGA (VCS)</b> |   |                                      |  |   |
| 1   | 29-31 <sup>st</sup><br>January,<br>2018                   | Veterinary<br>College,<br>Shivamogga | Shaping Livestock Extension Advisory Services (LEAS) for Doubling Farmers' Income  | Dept. of VAHandE  |

### b) Workshops

| #  | Date       | Place                             | Title  | Organized by  |
|--|------------|-----------------------------------|--|---|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |            |                                   |  |   |
| 1  | 15.12.2017 | Veterinary College,<br>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 |
| <b>VETERINARY COLLEGE, BIDAR (VCB)</b>     |            |                                   |  |   |
| 1  | 14.07.2017 | LRIC (Deoni), Bidar               | KWDP-II; Sujala-III project activities in Bidar district                           | KWDP-II; Sujala-III Project Team  |
| <b>VETERINARY COLLEGE, HASSAN (HVC)</b>    |            |                                   |  |   |
| 1  | 15.06.2017 | Veterinary College,<br>Hassan     | An update on clinical toxicology of Veterinary importance                          | Dept. of Veterinary Pharmacology and Toxicology, HVC  |
| 2  | 01.08.2017 | Veterinary College,<br>Hassan     | First aid treatment and health management in dairy animals                         | Dept. of Veterinary Pharmacology and Toxicology, HVC  |
| 3  | 29.07.2017 | KVK,<br>Chamarajanagara           | Livestock related extension activities   | Sujala-III Project Chamarajanagar   |
| 4  | 31.08.2017 | Sagade Village,<br>Chamarajanagar | Sheep breeding and management  | Sujala-III Project Chamarajanagar   |



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|   |            |                                    |  |   |
|---|------------|------------------------------------|--|---|
| 5   | 16.09.2017 | Mukkadahalli,<br>Chamarajanagar    | Livestock support and extension activities   | Sujala-III Project<br>Chamarajanagar  |
| 6   | 29.11.2017 | Shivapura,<br>Chamarajanagar       | Silage making by using Silage Bags   | Sujala-III Project,<br>Chamarajanagar   |
| 7   | 28.12.2017 | Harave,<br>Chamarajanagar          | Selection of milch animals, housing and hygiene of dairy cattle shed   | Sujala-III Project<br>Chamarajanagar  |
| 8   | 29.12.2017 | Bettadapura<br>Chamarajanagar      | Silage making by using silo bags-Demonstration   | Sujala-III Project<br>Chamarajanagar  |
| 9   | 26.02.2018 | Veterinary College,<br>Hassan      | Livestock and Climate Change   | ICAR-NICRA project,<br>Veterinary College,<br>Hassan                            |
| 10  | 11.01.2018 | Harave,<br>Chamarajanagar          | Animal Nutrition, viz, fodder cultivation, balanced feed preparation and dry fodder enrichment using urea ammoniation method | Sujala-III Project<br>Chamarajanagar  |
| <b>VETERINARY COLLEGE, GADAG (VCG)</b>                                  |            |                                    |  |   |
| 1   | 20.02.2018 | Veterinary College,<br>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 AH&VS, Gadag |
| <b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>                            |            |                                    |  |   |
| 1   | 10.07.2017 | College of Fisheries,<br>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,<br>Mangaluru | World Environmental Day - 2017 and World Ocean Day-2017  | Department of Aquatic Environment and Management                                |
| 3   | 03.12.2017 | College of Fisheries,<br>Mangaluru | Agriculture Education day  | Department of Aquatic Environment and Management                                |
| 4   | 01.02.2018 | College of Fisheries,<br>Mangaluru | Workshop on Road safety and awareness  | Department of Aquatic Environment and Management                                |
| 5   | 02.02.2018 | College of Fisheries,<br>Mangaluru | One day workshop on World wetlands day - 2018  | Department of Aquatic Environment and Management                                |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |            |                                    |  |   |
| 1   | 30.06.2017 | -                                  | Brucellosis: Diagnosis and Control   | All Scientist of SRDDL  |
| <b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)</b>         |            |                                    |  |   |
| 1   | 01.02.2018 | IWVR, Kodagu                       | Crop damage by Wild Animals and its Control measures   | A. Muralidhar and Divya, V.   |



c) Seminars:

| #  | Date           | Place                                 | Title  | Organized by          |
|--|----------------|---------------------------------------|--|-----------------------|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                |                                       |  |                       |
| 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 |
|---|--------------------------|--------------------------------|--------------------------|--------------|
| <b>VETERINARY COLLEGE, SHIVAMOGGA (VCS)</b> |                          |                                |                          |              |
| 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   |
|--|-------------------------|------------------------|---|--|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                         |                        |   |  |
| 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 |



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



RURAL-ORIENTED & FARMER FRIENDLY

|                                       |                                |              |   |  |
|---------------------------------------|--------------------------------|--------------|---|--|
| 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<br>Doddaluvara,<br>Somwarpet, Kodagu  |
| 21                                    | 22-23<br>February,<br>2018     | IWVR, Kodagu | Management and Diseases of Wild Animals to the officers of Dept. of AHAndVS of Different districts of Karnataka         | IWVR<br>Doddaluvara,<br>Somwarpet, Kodagu  |
| 22                                    | 1-2<br>March, 2018             | IWVR, Kodagu | Restraint and Disease diagnosis in Wild Animals to the officers of Dept. of AHAndVS of Different districts of Karnataka | IWVR<br>Doddaluvara,<br>Somwarpet, Kodagu  |
| <b>VETERINARY COLLGE, BIDAR (VCB)</b> |                                |              |   |  |
| 1                                     | 28.08.2017<br>to<br>30.08.2017 | VCB          | Scientific sheep and goat production  | SCSP/TSP Grants  |
| 2                                     | 07.02.2018<br>to<br>09.02.2018 | VCB          | Innovative approaches for sustainable livelihood through animal husbandry   | MANAGE, Hyderabad and Veterinary College, Bidar  |
| 3                                     | 24.07.2017<br>to<br>26.07.2017 | VCB          | Management of parturition and postpartum complications in ruminants   | Dept. of VGO/SCSP-TSP Grants   |
| 4                                     | 19.03.2018<br>to<br>21.03.2018 | VCB          | Administration and accounts management training   | Dept of VGO/SCSP-TSP Grant   |
| 5                                     | 22.03.2018<br>to<br>24.03.2018 | VCB          | Stress management and capacity building   | Dept of VGO/SCSP-TSP Grant   |
| 6                                     | 26.03.2018<br>to<br>28.03.2018 | VCB          | Scientific and profitable goat farming  | Dept of VGO/SCSP-TSP Grant   |
| 7                                     | 27.07.2018<br>to<br>29.07.2017 | VCB          | Recent update on diagnosis and treatment of common diseases in ruminants  | SAMETI-North, Dharawad   |
| 8                                     | 20.02.2018<br>to<br>22.02.2018 | VCB          | Innovative technologies in livestock production   | Dept. of Veterinary Medicine   |
| 9                                     | 23.02.2018<br>to<br>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  |

**VETERINARY COLLEGE, SHIVAMOGGA (VCS)**

|   |                                 |        |   |   |
|---|---------------------------------|--------|---|---|
| 1 | 23.08.2018                      | Sagara | <i>Gopala Goshthi</i>   | 178 farmers participated in the said programme. |
| 2 | 11.09.2017<br>to<br>16.09.2017  | VCS    | Integrated Poultry Farming  | Livestock Production Management                 |
| 3 | 20.02.2018<br>to<br>24.02.2018  | VCS    | Training of Master Trainers (TOT) for Faculty.                              | ASCI and VCS                                    |
| 4 | 22.06.2017<br>to<br>23.06.2017  | VCS    | Livestock feed processing and quality assurances for sustainable production | Dept. of LFC, Veterinary College, Shivamogga    |
| 5 | 30.10.2017<br>to<br>31.10.2017  | VCS    | Sheep and goat Farming  | Dept. of LFC, Veterinary College, Shivamogga    |
| 6 | 31.07.2017<br>and<br>01.08.2017 | VCS    | Scientific dairying   | Dept. of LFC, Veterinary College, Shivamogga    |
| 7 | 17.01.2018<br>to<br>18.01.2018  | VCS    | Scientific poultry production   | Dept. of LFC, Veterinary College, Shivamogga    |
| 8 | 26.03.2018<br>to<br>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<br>to<br>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<br>to<br>04.11.2017 | HVC  | Training cum Demonstration on Modern Rabbit Farming                     | DST-Rabbit Project (Dept of Physiology and Biochemistry)       |
| 9  | 13.11.2017                     | Ka chuvana halli,<br>Kanakapura,<br>Ramnagar | Farmers breed awareness programme on Hallikar                           | Dept. of AGB, Hallikar FPR project, Veterinary College, Hassan |
| 10   | 30.11.2017                     | Maleyuru,<br>Chamarajanagar                  | Fodder nursery field day  | KWDP-II , Sujala-III Project, Chamarajanagar                   |
| 11   | 24.01.2018<br>to<br>25.01.2018 | HVC  | Training cum Demonstration on Modern Rabbit Farming                     | DST-Rabbit Project (Dept of Physiology and Biochemistry)       |
| 12   | 17.01.2018                     | Kodahalli,<br>Shivapura,<br>Chamarajanagar   | Fodder nursery field day  | KWDP-II , Sujala-III Project Chamarajanagar                    |
| 13   | 18.01.2018                     | Harave,<br>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<br>to<br>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<br>Magadi,<br>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                                     |
| <b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b> |                                |  |   |  |
| 1  | 02.06.2017<br>to<br>14.06.2017 | SEDP and<br>FPTC                             | Dairy and food processing For a marketing students                      | Dairy Science College, Bengaluru                               |



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



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



RURAL ORIENTED & FARMER FRIENDLY  
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| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA</b> |                                |                          |   |                      |
|---|--------------------------------|--------------------------|---|----------------------|
| 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<br>to<br>28.02.2018 | LRIC(S), Nagamangala     | Modern animal husbandry practices   | LRIC(S), Nagamangala |
| 16  | 05.03.2018<br>to<br>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 |



RURAL ORIENTED & FARMER FRIENDLY  
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| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI</b>         |  |                                |   |                                      |
|---|--|--------------------------------|---|--------------------------------------|
| 1   | 19.03.2018<br>to<br>21.03.2018                       | Konehalli                      | Profitable Animal Husbandry-piggery farming   | LRIC (A), Konehalli                  |
| 2   | 26.03.2018<br>to<br>28.03.2018                       | Ramenahalli                    | Silage and haylage preparation for profitable dairying                              | LRIC (A), Konehalli                  |
| 3   | 01.03.2018   | Honnavalli 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, Honnavalli                | Improved dairy farming  | AHP, Konehalli                       |
| 6   | 13.03.2018   | KVK, Honnavalli                | Improved dairy farming  | AHP, Konehalli                       |
| 7   | 17.03.2018   | KVK, Honnavalli                | Sudharitha pashupalana tantrikathegalu/improved livestock management practices      | AHP, Konehalli                       |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b> |  |                                |   |                                      |
| 1   | 19 <sup>th</sup> -24 <sup>th</sup><br>June, 2017     | FRIC, Hebbal                   | Aquaculture-An opportunity for investment and entrepreneurship                      | FRIC, Hebbal and ICAR, Newdelhi      |
| 2   | 29 <sup>th</sup> June, 2017                          | KVK Hardanahalli               | fish farming at KVK Hardanahalli Chamarajanagar Dist                                | FRIC, Hebbal under Sujal-III         |
| 3   | 10 <sup>th</sup> July, 2017                          | FRIC, Hebbal                   | Fish farmers day  | FRIC, Hebbal and DOF, GOK            |
| 4   | 10 <sup>th</sup> July, 2017                          | KVK Hardanahalli               | Awareness programmes on fish farming and fish farmers day celebration               | FRIC, Hebbal under Sujal-III         |
| 5   | 29 <sup>th</sup> July, 2017                          | FRIC, Hebbal                   | Sujala activities from 201-18   | FRIC, Hebbal under Sujal-III         |
| 6   | 28 <sup>th</sup> -30 <sup>th</sup><br>August, 2017   | FRIC, Hebbal                   | Fisheries interventions in watershed development districts under SUJALA-III         | KVAFSU and Watershed Department, GOK |
| 7   | 16.09.2017   | Mukudahalli                    | Fish farming  | FRIC, Hebbal under Sujal-III         |
| 8   | 26 <sup>th</sup> -28 <sup>th</sup><br>February, 2018 | FRIC, Hebbal                   | Preparation of value added fish and prawn products and women entrepreneurship       | FRIC, Hebbal and DOF, GOK            |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>      |  |                                |   |                                      |
| 1   | 28-30 <sup>th</sup><br>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  
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|   |                          |               |  |   |
|---|--------------------------|---------------|--|---|
| 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  |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b> |                          |               |  |   |
| 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   |



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|  |                                |                    |  |   |
|--|--------------------------------|--------------------|--|---|
| 13   | 23.03.2018<br>to<br>25.03.2018 | FRIC,<br>Bhutnal   | Skill development in Agriculture<br>and Agriculture allied   | FRIC, Bhutnal and Dept.<br>of Agriculture (GoK)<br>Vijayapura                     |
| 14   | 26.03.2018<br>to<br>28.03.2018 | FRIC,<br>Bhutnal   | Skill development in Agriculture<br>and Agriculture allied   | FRIC, Bhutnal and Dept.<br>of Agriculture (GoK)<br>Vijayapura                     |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA</b> |                                |                    |  |   |
| 1  | 10.07.2017                     | FRIC(M),<br>Ankola | Awareness programme on Fresh,<br>brackishwater fish and shrimp<br>farming and ornamental fish<br>culture practices | Dr. Chandrkant Lingadhhal<br>FRIC(M), Ankola<br>and Dept. of Fisheries,<br>Ankola |
| 2  | 26.02.2018<br>to<br>28.02.2018 | FRIC(M),<br>Ankola | Responsible fisheries, Mussel<br>farming and Management for<br>fishermen   | Dr. Chandrakant<br>Lingadhhal<br>FRIC(M), Ankola                                  |
| 3  | 26.03.2018<br>to<br>28.03.2018 | FRIC(M),<br>Ankola | Sea cage fish farming as part of<br>skill development programme<br>under AINP-Mariculture project                  | Dr. E.G. Jayaraj and<br>Dr. Chandrakant<br>Lingadhhal                             |
| <b>KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU</b>  |                                |                    |  |   |
| 1  | 12.04.2017                     | KVK-DK             | Production and importance of<br>vermicompost   | KVK-DK  |
| 2  | 24.04.2017                     | KVK-DK             | Swarnadhara Poultry farming  | KVK-DK  |
| 3  | 13.05.2017<br>to<br>15.05.2017 | KVK-DK             | Krishi Ranga-Summer Camp for<br>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<br>transplanting for students of St.<br>Agnes College Mangaluru.                     | KVK-DK  |
| 6  | 10.07.2017                     | KVK-DK             | Agriculture Awareness<br>programme for School students<br>Sri Ravishankar gurujee school<br>Mangaluru              | KVK-DK  |
| 7  | 03.08.2017                     | KVK-DK             | Agriculture Awareness<br>programme for<br>students of School of Social<br>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<br>to<br>18.09.2017 | KVK-DK             | Reclamation of Problematic Soil<br>thorugh Aquaculture   | KVK-DK  |
| 11   | 31.10.2017                     | KVK-DK             | Coconut white fly-symptoms<br>and management   | KVK-DK  |



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|    |                                |                                   |   |                 |
|----|--------------------------------|-----------------------------------|---|-----------------|
| 12 | 14.11.2017<br>to<br>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,<br>Belthangady            | Improved Cultivation practices in Paddy (FLD)   | KVK-DK          |
| 18 | 13.07.2017                     | Harekala,<br>Mangaluru            | Capacity building for the Farmers for formation of Harekala chilly Growers association                | KVK-DK          |
| 19 | 02.08.2017                     | Nadugodu<br>Mangaluru<br>taluk    | Paddy New Variety IRGA: An Introductory programme for the Farmers                                     | KVK-DK          |
| 20 | 31.08.2017                     | Mudushedde,<br>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                     | Pa nemangaluru,<br>Bantwal        | Safe use of pesticides  | KVK-DK          |
| 25 | 25.10.2017                     | Manjeshwar,<br>Mangaluru          | Coconut white fly-symptoms and management   | KVK-DK          |
| 26 | 18.11.2017                     | Kolya,<br>Puttur                  | Cultivation practices for Rabi Paddy  | KVK-DK          |
| 27 | 23.11.2017                     | Kajoor,<br>Belthangady            | Improved cultivation practices in Sesamum   | KVK-DK          |
| 28 | 24.11.2017                     | Chennaithodi,<br>Bantwal<br>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,<br>Mangaluru             | Integrated crop management in Okra  | KVK-DK          |
| 31 | 23.12.2017                     | SCDCC,<br>Mangaluru               | Coconut BHC and White fly   | KVK-DK          |
| 32 | 10.01.2018                     | Adyar                             | Trining on Farmers Field School   | KVK-DK          |



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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 | Mayyarabailu              | 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 Swarnadhara 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                         |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU</b> |            |                           |   |                                |
| 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

|   |                          |   |                                 |                               |
|---|--------------------------|---|---------------------------------|-------------------------------|
| 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-Mandya          | -                   | -         | -       | -        | -         | -              | -         | -       | -        | 18        | 18    |
| 13 | LRIC, Konehalli-Tumakuru          | -                   | -         | -       | -        | -         | -              | -         | -       | -        | 7         | 7     |



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

## 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-Chamarajnar                           | -         | -          | -         | -         | -         | -        | -          |
| 25           | AHP, Dornalli-Yadgir                             | -         | -          | -         | -         | -         | -        | -          |
| <b>Total</b> |  | <b>53</b> | <b>507</b> | <b>59</b> | <b>31</b> | <b>10</b> | <b>5</b> | <b>665</b> |

### 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    |



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|              |  |            |           |           |           |           |           |            |
|--------------|--|------------|-----------|-----------|-----------|-----------|-----------|------------|
| 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                             | -          | -         | -         | -         | -         | -         | -          |
| <b>Total</b> |  | <b>119</b> | <b>99</b> | <b>59</b> | <b>20</b> | <b>28</b> | <b>18</b> | <b>343</b> |

#### 4. Radio Talk/TV Programmes

##### a) Radio Talks

| #                                    | Date       | Scientist         | Topic  | AIR Station    |
|--------------------------------------|------------|-------------------|--|----------------|
| <b>VETERINARY COLLEGE, BENGALURU</b> |            |                   |  |                |
| 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 |

|                                       |             |                       |   |                  |
|---------------------------------------|-------------|-----------------------|---|------------------|
| 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    |
| <b>VETERINARY COLLEGE, BIDAR</b>      |             |                       |   |                  |
| 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   |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |             |                       |   |                  |
| 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 |
| <b>VETERINARY COLLEGE, HASSAN</b>     |             |                       |   |                  |
| 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     |
| <b>VETERINARY COLLEGE, GADAG (VCG)</b>                                  |               |                       |  |                 |
| 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    |
| <b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b>                  |               |                       |  |                 |
| 1   | 12.12.2017    | D.B. Puranik          | Value added milk products                          | AIR, Bengaluru  |
| 2   | 02.02.2018    | B. Ramachandra        | Clean Milk Production                              | AIR, Bengaluru  |
| <b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>                            |               |                       |  |                 |
| 1   | 25.09.2017    | Mridula Rajesh        | Fishery Management                                 | AIR Mangaluru   |
| 2   | 09.10.2017    | Mridula Rajesh        | Fishery Management                                 | AIR Mangaluru   |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |               |                       |  |                 |
| 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   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>   |               |                       |  |                 |
| 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 |
| <b>KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)</b>        |               |                       |  |                 |
| 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   |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b>                      |               |                       |  |                 |
| 1   | 23.06.2017    | Shivakumar, K. Radder | 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                                |
|---------------------------------------|---------------------------|-----------------|---|--|
| <b>VETERINARY COLLEGE, BENGALURU</b>  |                           |                 |   |  |
| 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                           |
| <b>VETERINARY COLLEGE, BIDAR</b>      |                           |                 |   |  |
| 1                                     | 12.04.2017                | Ravindra, B.G.  | FMD in cattle   | DD Kalaburagi                          |
| 2                                     | 17.05.2017                | Ramachandra, B. | Alternative fodder resources  | ChandanaTV, 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                          |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |                           |                 |   |  |
| 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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| <b>VETERINARY COLLEGE, HASSAN</b>                                       |                |                   |   |                          |
|---|----------------|-------------------|---|--------------------------|
| 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   |
| <b>DIARY SCIENCE COLLEGE, BENGALURU</b>                                 |                |                   |   |                          |
| 1   | 01.06.2017     | H.M. Jayaprakasha | Nutritional significance of milk and milk products and their health impact                              | DD Chandana              |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>                                  |                |                   |   |                          |
| 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 | Daiji world TV Mangaluru |
| 4   | 07.09.2018     | S.M. Shivaprakash | Participated in Doordarshan recording of the activities of Polytechnic, Shiggaon                        | 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 | Shrimp farming using modern Bio-flock Technology  | Doordarshan              |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |                |                   |   |                          |
| 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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| <b>CANINE RESEARCH AND INFORMATION CENTER (MH), TIMMAPUR-BAGALKOT</b>    |            |                       |   |                          |
|--|------------|-----------------------|---|--------------------------|
| 1  | 17.09.2017 | Mahesh, S. Dodamani   | Breeding and Management Policies                                  | ETV Kannada              |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>      |            |                       |   |                          |
| 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              |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA, BENGALURU</b> |            |                       |   |                          |
| 1  | 10.10.2017 | Manjappa, N.          | Integrated Fish Culture   | DD Chandana TV programme |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>    |            |                       |   |                          |
| 1  | 07.02.2018 | Vijaykumar, S.        | On Mega Fisheries Exhibition                                      | ETV Annadata             |
| <b>KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)</b>         |            |                       |   |                          |
| 1  | 16.05.2017 | Annappaswamy, T.S.    | Krishi Ranga Summer Camp for kinds                                | Samaya TV                |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b>                       |            |                       |   |                          |
| 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. Radder | 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            | IAHandVB, Bengaluru                              | 04          | 07            | 11         |
| 10           | IWVR, Doddaluvara-Kodagu                         | -           | -             | -          |
| 11           | LRIC, Hallikhed-Bidar                            | -           | -             | -          |
| 12           | LRIC, Nagamangala-Mandya                         | -           | -             | -          |
| 13           | LRIC, Konehalli-Tumakuru                         | -           | -             | -          |
| 14           | BRIC, Dornalli-Yadgir                            | -           | -             | -          |
| 15           | CRIC, Timmapur-Bagalokot                         | -           | 01            | 01         |
| 16           | FRIC, Hebbal-Bengaluru                           | -           | 10            | 10         |
| 17           | FRIC, Hesaraghatta-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                             | -           | -             | -          |
| <b>Total</b> |  | <b>55</b>   | <b>55</b>     | <b>110</b> |



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ಕರ್ನಾಟಕ ವನ್ಯಾಯ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

## 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                             | -                          | -                            |
| <b>Total</b> |  | <b>70</b>                  | <b>17708</b>                 |



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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-Mandya                         | 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                 |
| <b>Total</b> |  | <b>321</b>            | <b>92</b>         |



RURAL ORIENTED & FARMER FRIENDLY

## 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<br>Small and Large Animals treated  | 46102             |
|                                | VCC, Yalahanka<br>Small and Large Animals treated   | 9392              |
|                                | Inpatients  | 159               |
|                                | <b>Total</b>  | <b>102570</b>     |
| Veterinary College, Bidar      | Various clinical services to livestock and pet animals  | <b>11884</b>      |
| Veterinary College, Shivamogga | Visited Goshala at Koralahalli, Shivamogga rural-25 <sup>th</sup> November 2017   | 1                 |
|                                | Field visit to a cross bred Heifer calf rearing farm at Ripponpet, Hosanagar Tk, visit to Malnad Gidda farm 23 <sup>rd</sup> January 2018                       | 1                 |
|                                | Cattle judging at Animal health camp at Kuskur, Shivamogga Tk -11 <sup>th</sup> December 2017   | 1                 |
|                                | Participated as judge for Dairy cattle and Calf show organized 30 <sup>th</sup> December 2017   | 1                 |
|                                | Cattle judging at Animal health camp in NSS camp at Sogane village, Shivamogga Tk, 22 <sup>nd</sup> March 2018  | 1                 |
|                                | Animals treated at Medicine unit, Teaching Veterinary Clinical Complex (TVCC) of Veterinary College, Shivamogga from 01 April 17 to 31 <sup>st</sup> March 2018 | 4357              |
|                                | Surgical treatment/interventions/ operations in OPD/OT for the year 2017-18 (01.04.2017 to 31.03.2018)  | 2044              |
|                                | <b>Total</b>  | <b>6406</b>       |
| Veterinary College, Hassan     | Clinical services (April 17 to March 18)  | 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)<br>Major surgeries-248<br>Minor surgeries-49   | 297               |
|                                | OPD   | 2053              |
|                                | <b>Total</b>  | <b>13852</b>      |



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|                                   |  |                    |
|-----------------------------------|--|--------------------|
| Veterinary College, Gadag         | Health care service at College Hospital, Mahaveera goshala   | <b>792</b>         |
| Dairy Science College, Bengaluru  | -  | -                  |
| Dairy Science College, Kalaburagi | Sub-clinical mastitis testing demo at Dongaragaon, Ranapur, Khairat chincholi, Hebli (Kalaburagi) under CMP programme  | <b>04</b>          |
| College of Fisheries, Mangaluru   | -  | -                  |
| IAHand 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, 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, FMDNo 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 | <b>51 villages</b> |
| IWVR, Doddaluvara-Kodagu          | -  | -                  |
| LRIC, Hallikhed-Bidar             | -  | -                  |
| LRIC, Nagamangala-Mandya          | Health care during Field Visit   | <b>262</b>         |
| 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                 |
|                                   | <b>Total</b>   | <b>350</b>         |



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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 vaccination to Dogs and Cats   | 82            |
|  | Free antirabies Vaccination to 56 dogs/cats on the occasion of World Zoonoses day celebration organized by IAH and VB | 56            |
|  | <b>Total</b>  | <b>138</b>    |
| 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          |
|  | <b>Total</b>  | <b>11600</b>  |
| AHP, Kunnur-Haveri                               | -   | -             |
| AHP, Koravangala-Hassan                          | -   | -             |
| AHP, Bargi-Chamarajnar                           | -   | -             |
| AHP, Dornalli-Yadgir                             | 05  | 32            |
| <b>Total</b>                                     |   | <b>148361</b> |



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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, Caninenecropsy, 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, Hesaraghatta, Bengaluru, Treatment of Bulls suffering with hoof lesions and limping at Nandini Sperm Station, Kakolu, Hesaraghatta, 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, Optholmoscope, 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   | 60          |
|    |  | Facecal sample analysis for parasitic infestation of elephants Mathigod elephant camp                            | 25          |
|    |  | Haematological analysis of blood of elephants of Mathigod elephant camp  | 23          |
|    |  | Serological analysis of blood of elephants of Mathigod elephant camp   | 23          |
|    |  | <b>Total</b>   | <b>131</b>  |
| 11 | LRIC, Hallikhed-Bidar                            | -  | -           |
| 12 | LRIC, Nagamangala-Mandya                         | Disease diagnosis  | <b>540</b>  |
| 13 | LRIC, Konehalli-Tumakuru                         | Pregnancy diagnosis and infertility  | <b>85</b>   |
| 14 | BRIC, Dornalli-Yadgir                            |  |             |
| 15 | CRIC, Timmapur-Bagalkot                          | Ultrasonography for scanning   | <b>35</b>   |
| 16 | FRIC, Hebbal-Bengaluru                           | Soil, water and fish health investigation services, feed analysis and plankton analysis                          | <b>3196</b> |
| 17 | FRIC, Hesaraghatta-Bengaluru                     | -  | -           |
| 18 | FRIC, Bhutnal-Vijayapura                         | Diagnosis of Fish  | <b>36</b>   |
| 19 | FRIC, Ankola-Uttar Kannada                       | Water testing for Salinity, PH and Temperature   | <b>25</b>   |
| 20 | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | Soil Sample  | 105         |
|    |  | Water Sample   | 103         |
|    |  | Problematic field visit  | 15          |
|    |  | <b>Total</b>   | <b>223</b>  |
| 21 | AHP, Konehalli-Tumakuru                          | Screening Faecal Samples of Amrithmahal Cattle, Sheep, Goat, Pig and Cross breed Animals of LRIC (A), Konehalli. | 150         |
|    |  | Blood examination for hemoglobin estimation in Amrithmahal cattle and cross breed cows                           | 20          |
|    |  | Examination of Skin Scrapings  | 22          |
|    |  | Milk Adulteration Test   | 15          |
|    |  | <b>Total</b>   | <b>207</b>  |



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|              |                         |   |              |
|--------------|-------------------------|---|--------------|
| 22           | AHP, Kunnur-Haveri      | Blood, urine, faeces and milk samples examination | 15           |
| 23           | AHP, Koravangala-Hassan |   | -            |
| 24           | AHP, Bargi-Chamarajnar  |   | -            |
| 25           | AHP, Dornalli-Yadgir    | -   | -            |
| <b>Total</b> |                         |   | <b>44374</b> |

### 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<br>(12029.90 kgs) | 11,66,718.00                  |
|                                     |                               | Paddy husk                          | -                      | 6,634.00                      |
|                                     |                               | Gunny bags                          | -                      | 0.00                          |
|                                     |                               | 1 <sup>st</sup> week day old chicks | -                      | 0.00                          |
|                                     |                               | 2 <sup>nd</sup> week day old chicks | 2333                   | 93,260.00                     |
|                                     |                               | 3 <sup>rd</sup> week day old chicks | 386                    | 19,300.00                     |
| 4 <sup>th</sup> week day old chicks | 4                             | 272.00                              |                        |                               |
| 5 <sup>th</sup> week day old chicks | 5                             | 350.00                              |                        |                               |
| <b>Total</b>                        |                               |                                     | <b>1,24,08,350.00</b>  |                               |
| 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                     |
|                                     |                               | <b>Total</b>                        |                        |                               |



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|   |                                   |  |   |
|---|-----------------------------------|--|---|
| 3 | Veterinary College, Shivamogga    | a. By sale of Piglets and Pig<br>b. Sale of milk<br>c. Sale of cattle and poultry feed<br>d. Sale of sheep and goats<br>e. Fodder production<br>F. Grain production and Sale<br>g. Sale of root slips<br>h. Sale of Mineral mixture<br>i. Sale of eggs | <b>14,24,907.00</b>   |
| 4 | Veterinary College, Hassan        | 800 tree saplings<br>Pig - 128;<br>Sheep -18;<br>Goat -10;<br>Milk -10103 litres;<br>Rabbit -13;<br>Poultry -2985<br>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<br>Rohu fingerlings:7350<br>Common carp fingerlings:7320<br>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 maintenance   |



RURAL ORIENTED & FARMER FRIENDLY

|    |                               |  |  |
|----|-------------------------------|--|--|
| 10 | IWVR, Doddaluvara-Kodagu      | -  | -  |
| 11 | LRIC, Hallikhed (Deoni)-Bidar | Fodder stem cuttings: 2,00,650<br>Fodder root slips: 24,550<br>Fodder seeds: 206 kg<br>Mudhol Hound pups: 12 | -  |
| 12 | LRIC, Nagamangala-Mandya      | 50 Elite Breeding Mandya Rams  | Under Mega Sheep Seed Project on Mandya Sheep (ICAR funded Project)  |
|    |                               | 380 Fodder Root slips  | To the needy farmers   |
| 13 | LRIC, Konehalli-Tumakuru      | Piglets - 136  | 56 Nos. farmers were benefited   |
|    |                               | Sale of Sick sow/Bore -09  | 09 Nos. farmers were benefited   |
|    |                               | Sale of Sheep -35  | 22 farmers were benefited  |
|    |                               | Sale of Tamrind  | 01 No. beneficiaries were benefited  |
|    |                               | Sale of Ragi   | 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.<br>Bulk fish sold: 91 kg   | Fish seeds supplied to farmers in Bengaluru rural and urban, Kolar, Hassan, Madikeri, Chamarajanagara, Mandya, Ramanagar, Chickballapur, Tumkur districts. |



RURAL ORIENTED & FARMER FRIENDLY

|              |  |   |                                   |
|--------------|--|---|-----------------------------------|
| 17           | FRIC, Hesaraghatta-Bengaluru                     | Fish seed - 6,67,284 Nos.<br>Ornamental fish - 52,275 Nos.  | -                                 |
| 18           | FRIC, Bhutnal-Vijayapura                         | Revenue collected Rs 4,55,402.00<br>No. Seeds : 4,14,960.00   | <b>4,55,402.00</b>                |
| 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-Chamarajnar                           | -   | -                                 |
| 25           | AHP, Dornalli-Yadgir                             | -   | -                                 |
| <b>Total</b> |  |   | <b>1,46,25,957.00</b>             |

## 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.<br>Feeding of sheep and goat.<br>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          | Condultacy given to the farmers/software professionals regarding dairy, sheep and goat, piggery, rabbitary farming and fodder production and conservation technques |
|   |                               | 3            | Bannerghatta national park and Mysuru zoo<br>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 Swarnadhara 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 Kuniyal 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   |
|   | <b>Total</b>                   | <b>2254</b> |   |
| 2 | Veterinary College, Bidar      | <b>870</b>  | -   |
| 3 | Veterinary College, Shivamogga | 68          | -   |
|   |                                | 1           | Treatment of rubber plant toxicity (Dr. Sripada Rao<br>VH, Sagar [15.10.2017])  |
|   |                                | 1           | Treatment of coconut oil toxicity (Dr. Dayanand<br>VH, Sagar 25-10-2017)  |
|   |                                | 1           | Treatment of <i>Ficus tshahela</i> toxicity (Dr.P.S.Hegde)  |
|   |                                | 10          | Veterinary Officers of AHVS,<br>Treatment of poisonings, antimicrobial therapy, druginteractions  |
|   |                                | 1           | Karnataka Sheep and Wool Development Corporation Ltd. Hebbal,Bengalure-560024<br><br>As member in price fixing committee on live weight basis for sheep and goat at APMC        |
|   |                                | 3           | Consultacy service to Farmer, Kotegangur, Shivamogga,<br><br>To Solve problem for SNF and Fat in village, As advice for establishment of Poutry 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<br>a. Investigated disease outbreak in sheep and goat in Agasavalli villege of Shivamogga Taluk and technical advice on treatment and control are given.<br>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.<br>c. Visited Sugur villege of Shivamogga taluk for the investigation of rabies in cattle and technical advice was given regarding preventive measures.<br>d. Visited Kommanahalli villege 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"   |
|   | <b>Total</b>               | <b>457</b> |   |
| 4 | Veterinary College, Hassan | 12         | Consultancy over phone call on different anial 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 villeges of Hassan   |



RURAL ORIENTED & FARMER FRIENDLY  
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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   |
|   | <b>Total</b>                      | <b>1178</b>     |   |
| 5 | Veterinary College, Gadag         | 3               | Farmers and allied dependents   |
|   |                                   | 4               | Animal husbandry practices  |
|   |                                   | 70              | Disease diagnosis and treatment   |
|   | <b>Total</b>                      | <b>77</b>       |   |
| 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   |
|   | <b>Total</b>                      | <b>35</b>       |   |
| 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

|    |                          |                 |   |
|----|--------------------------|-----------------|---|
|    |                          | 769 samples     | Shrimp health status/pathogens, control/management measures; on water quality parameters and steps to be taken to prevent waterborne infections.<br>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 visit on 25.05.2017- to Maravoor dam, Gurpur river<br>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.<br><br>Consultancy services provided to coastal fishermen on conservation and sustainable utilization of marine fisheries resources.<br><br>PFZ advisory provided by INCOIS is being disseminated to stakeholders of Dakshina Kannada and Udupi Districts.<br><br>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.<br><br>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<br>Hands on training programme on value added fish products preparation Fisherwomen and Self help group members  |
|    |                          | <b>Total</b>    | <b>862</b>  |
| 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   |



RURAL ORIENTED & FARMER FRIENDLY  
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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  |
|    | <b>Total</b>                                     | <b>8</b>     |  |
| 11 | LRIC, Hallikhed-Bidar                            | <b>500</b>   | Scientific livestock management practices  |
| 12 | LRIC, Nagamangala-Mandya                         | <b>106</b>   | An average of 70 phone calls is being attended to give the information on Sheep rearing and management   |
| 13 | LRIC, Konehalli-Tumakuru                         | <b>2041</b>  | 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                          | <b>110</b>   | Telephone advice to 110 people regarding Mudhol Hound Dog Rearing  |
| 16 | FRIC, Hebbal-Bengaluru                           | <b>276</b>   | Fish culture, disease, fish mortality in tanks, ornamental fishes  |
| 17 | FRIC, Hesaraghatta-Bengaluru                     | <b>125</b>   | 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                         | <b>1526</b>  | Information about fish farming, pond construction, water quality aspects, availability of traditional feed   |
| 19 | FRIC, Ankola-Uttar Kannada                       | <b>20</b>    | Shrimp/fish/ornamental fish farming ,Tidal chart reading ,Crab culture   |
| 20 | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | <b>1119</b>  | Consultancy provided to farmers through Telephone on Technical aspects of Agriculture and allied enterprises                                       |
| 21 | AHP, Konehalli-Tumakuru                          | <b>70</b>    | 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                               | <b>45</b>    | On varioius aspects of animal husbandry  |
| 23 | AHP, Koravangala-Hassan                          | -            |  |
| 24 | AHP, Bargi-Chamarajnagar                         | -            |  |
| 25 | AHP, Dornalli-Yadgir                             | -            | -  |
|    | <b>Total</b>                                     | <b>11679</b> |  |



## 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 20<sup>th</sup> Feb. 2017 to 1<sup>st</sup> 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 28<sup>th</sup> 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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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 (05 Male 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 adaptation and conserving indigenous breed in the northern parts of India
- \* Apart from this Sashastra Seema Bala, 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, Sindhanur 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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## 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              | Devasyavaduru, 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              | Chennaitodi, 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   |
|--------------------------------------|--|---|---|
| <b>VETERINARY COLLEGE, BENGALURU</b> |  |   |   |
| 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<br>Principal Scientist<br>ICAR-NBAIR<br>PB No. 2491, HA Farm Post<br>Ballari Road, Hebbal<br>Bengaluru -560 024  | During<br>14.11.2017<br>to<br>4.12.2017 | Resource Scientists and experts for the XXI National Training Programme on “An update on vectors and vector-borne diseases” |
| 7                                    | Dr. Bhaskaran Ravi Latha<br>Professor and Head<br>Dept. of Veterinary Parasitology<br>Madras Veterinary College TANUVAS, Chennai-600007                                      |   |   |
| 8                                    | Dr. Kesavan Subaharan<br>Principal Scientist<br>ICAR-NBAIR Bengaluru   |   |   |
| 9                                    | Dr. T.Venkatesan<br>Principal Scientist<br>NBAIR, Hebbal,<br>Bengaluru -560 024  |   |   |
| 10                                   | Dr. P. Azhahianambi<br>Assistant Professor<br>Dept. of Veterinary Parasitology<br>Madras Veterinary College<br>TANUVAS, Chennai- 600007                                      |   |   |
| 11                                   | Dr. T.N.V.K.V. Prasad<br>Senior Scientist<br>Nanotechnology laboratory<br>Institute of Frontier Technology<br>Acharya N G Ranga Agricultural University<br>Tirupati -517 502 |   |   |
| 12                                   | Dr. A.R.Rajavel<br>Scientist ‘D’(Retd.)<br>Vector Control Research Centre<br>Medical Complex Indira Nagar<br>Gorimedu, Puducherry-605006                                     |   |   |



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



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| 23                                    | Mr Sonja Jacoba de wit<br>Mr Tamar van der Vossen, Postgraduate students from the University of Utrecht, Netherlands                      | 15.05.2017<br>and<br>16.05.2017   | Veterinary students from Holland visited the department<br>Organised by Commonwealth Veterinary Association                                      |
| 24                                    | Students from Oregon State University<br>There were Six students, they visited the department in two batches:                             | Batch I:<br>10.07.2017<br>to<br>15.07.2017<br>Batch II:<br>17.07.2017<br>to<br>22.07.2017 | For the Externship Programme   |
| <b>VETERINARY COLLEGE, BIDAR</b>      |   |   |  |
| 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 <sup>st</sup> – 22 <sup>nd</sup> Dec., 2017, Veterinary College, Bidar |
| 3                                     | Prof. ML Madan, Former DDG and Vice Chancellor, New Delhi.  | 21.12.2017<br>to<br>22.12.2017  | Attended XXVI Annual Conference and National Symposium of SAPI, 21 <sup>st</sup> – 22 <sup>nd</sup> Dec., 2017, Veterinary College, Bidar        |
| 4                                     | Dr. B S Prakash, ADG (Animal Physiology and Nutrition), ICAR, New Delhi   | 21.12.2017<br>to<br>22.12.2017  | Attended XXVI Annual Conference and National Symposium of SAPI, 21 <sup>st</sup> -22 <sup>nd</sup> Dec., 2017, Veterinary College, Bidar         |
| 5                                     | Dr. Y HariBabu, 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  |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |   |   |  |
| 1                                     | Dr. R.V. Prasad, Vice-Chancellor, KVAFSU, Bidar   | 04.10.2017  | Reviewd the facilities of laboratory and gave suggestions  |



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| 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  |
| <b>VETERINARY COLLEGE, HASSAN</b>                      |  |            |  |
| 1  | Various schools of the Hassan city   | -          | Exposure given to school children, science teachers, awareness created regarding zoonotic parasitic diseases |
| <b>VETERINARY COLLEGE, GADAG (VCG)</b>                 |  |            |  |
| 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 Chauvhan CEO ZP Gadag                                      |            |  |
| 12   | Shri. Nagabhushan Kamathane, Member, BoM                                   | 25.09.2017 | Inauguration of Veterinary College, Gadag  |
| 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. Bhusareddy, Director, GIMS   | 28.02.2018 | Freshers Day   |
| <b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b> |  |            |  |
| 1  | HMT officers and president of Bangladesh Diplamo 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   |



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### COLLEGE OF FISHERIES, MANGALURU (FCM)

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| 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 Yark, 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<br>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 | Mohammed 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  |



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| 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 |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |  |             |   |
| 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 Universty, 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  | -   |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI</b>             |  |             |   |
| 1   | Associate Director of Research<br>KAVAFSU, Bidar   | 11.09.2017  | Farm visit  |
| 2   | Director of Research<br>KAVAFSU, Bidar   | 06.11.2017  | Farm visit and to observed AHP civil work progress                      |
| 3   | Hon'ble Vice-Chancellor<br>KAVAFSU, Bidar  | 16.12.2017  | Farm visit and to enhance fodder production                             |



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| 4   | Amar D'Souza<br>Souza Pig Breeding Center<br>Chikkamangaluru                         | 19.02.2018                       | Pig breeding information   |
| 5   | Associate Director of Research<br>Veterinary Collage, Bangalore                      | 02.03.2018                       | Auction of Sheep   |
| <b>CANINE RESEARCH and INFORMATION CENTER(MH), TIMMAPUR</b>         |  |                                  |  |
| 1   | Dr. Suresh S.Honnappagol<br>Commissioner<br>Department of AH and VS<br>Govt of India | 22 <sup>nd</sup> oct-<br>2017    | Visited many times and very happy about the development of CRIC Timmapur |
| 2   | Dr. B.S.Patil<br>General Manager<br>United India Insurance Co. Ltd Hubli             | 18 <sup>th</sup> Feb<br>2018     | Casual visit and appreciated the developments                            |
| 3   | Shri. M.N. Nagaraj<br>Superintendent of police Bagalkot                              | 28 <sup>th</sup> January<br>2018 | Casual visit and appreciated the developments                            |
| 4   | Shri Govind Karjol<br>MLA, Mudhol  | Almost every month               | Casual visit and appreciated the developments                            |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b> |  |                                  |  |
| 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                                      |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>      |  |                                  |  |
| 1   | Shree Pramod Madwaraj, Honorable Fisheries Minister, GoK, Karnataka                  | 11.07.2017                       | Observe the activity of FRIC (I), Hesaraghatta                           |
| 2   | Dr. KC Veeranna<br>Dean, Veterinery Collge, Shimogga                                 | 24.06.2017                       | To observe the activity of FRIC (I), Hesaraghatta                        |



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| 3   | Irish Anchtageri and Nagashushan Kamatana,<br>Honorable 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<br>Deputy Director, MPEDA, Karwar   | 22.02.2018               | Training program   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b> |  |                          |  |
| 1   | Dr. RV. Prasad, Ex.Vice Chancellor,<br>KVAFSU, Bidar   | 02.02.2018               | For inaugural function of Matsya Mela-2018.  |
| 2   | Dr. Shivaprakesh, Director Of Research<br>KVAFSU, Bidar  | 02.02.2018               | For inaugural function of Matsya Mela-2018.  |
| 3   | Dr.S.M.Shi vaprakash<br>Director Of Extension KVAFSU, Bidar  | 05.02.2018               | For Valedictory function of Matsya Mela-2018   |
| 4   | Shri. Nagabhushan kamtane and Shri. Mallikarjuna<br>Biradar, Board Of Management, KVAFSU, Bidar<br>Dr. SM.Ustarge, Director Of Extension,<br>KVAFSU, Bidar<br>Shri. Ramappa, EE, KVAFSU, Bidar | 13.07.2017               | Visited to FRIC  |
| 5   | Shri. Eresh Inchatgere, Board Of Management<br>KVAFSU, Bidar   | 02.02.2018               | For inaugural function of Matsya Mela-2018   |
| 6   | Smt.Lumbini Gowtham, Board Of Management<br>KVAFSU, Bidar  | 05.02.2018               | For Valedictory function of Matsya Mela-2018   |
| 7   | General Manager and Assistant AGM, NABARD,<br>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 inaugural function of NRLM   |
| 9   | Dy. Director, MPEDA, Karwar  | 03.08.2017               | For inaugural function of Eco- Friendly of Sustainable aquaculture                                   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA</b>              |  |                          |  |
| 1   | Diploma Agriculture College, Kumata,<br>(27 Students)  | 26.05.2017               | Farm Visit and Shrimp farming  |
| 2   | Mr. Vijayakumar Yaragal<br>Deputy Director, MPEDA, Karwar  | 30.05.2017<br>26.10.2017 | Farm activities and shrimp farming<br>Farm visit of MPEDA trainees (20 nos.)                         |



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



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### ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKURU

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

### 13. Important decisions taken during 12<sup>th</sup> 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 Gowada 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 Israelian 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 Israelian 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 Radder, 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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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪ್ರಾಣಿ ವೈದ್ಯಕೀಯ ಮತ್ತು  
ಪಶುಪಾಲನೆ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

## IV. PUBLICATIONS

### 1. Research Papers

#### i) International Publications

##### a) In Journals

| #  | Authors, Year of publication, Title of the paper and Journal  |
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| <b>VETERINARY COLLEGE, HEBBAL, BENGALURU</b> |   |
| 1  | Sunilkumar Patil, Jamuna, K.V., Lakshminarayana Somashekar, Sellappan Selvaraju, Prasad, R.V. and Binsila, B. Krishnan, 2017. Cytolocalisation of PDC-109 Protein in Ejaculated Spermatozoa of Buffalo (Bubalus bubalis). <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 (Bos taurus x Bos indicus) 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, Appannavar, 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., Madijagan 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, Madijagan 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 in vivo and in vitro 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   | Basavarajiah, 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 diseases massive 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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| 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 Staphylococcus aureus 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 Staphylococcus aureus 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 Staphylococcus aureus. <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., Kumaraswamy, P., Appa Rao, V. and Porteen, K., 2017. Prevalence of Pantone Valentine Leukocidin (pvl) Gene in Methicillin Resistant Staphylococcus aureus 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 Ebenezer, 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 Staphylococcus aureus 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 Florescent 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) ( <a href="http://dx.doi.org/10.1136/vr.i4687">http://dx.doi.org/10.1136/vr.i4687</a> ).  |
| 26 | Srinivasa Babu, T., Rathnamma, D., Isloor, S., Chandranaik, B.M., Veeregowda, 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. |
| 28 | Mamatha, G.S, Shruthi, R., Chandranaik, B.M., Placid, E. D'Souza, Thimmareddy, P.M., Shivashankar, B.P. and Puttalakshamma, G.C., 2017. Molecular epidemiology and phylogenetic characterisation of Theileria luwenshuni in India: A first Report. <i>Small Ruminant Research</i> , 154:52-57.  |
| 29 | Shwetha, H.S., Narayana Swamy, M., Krishnaswamy, A., Ranganath, L., Rathnamma, D. and Tejaswi, V., 2017. Reproductive Hormonal Profile in NARI Suwarna Ewes at different stages of Pregnancy and Diestrus Stage. <i>Bulletin of Environment, Pharmacology and Life Sciences</i> , 6(7):56-59.   |
| 30 | Pradeep, K., Yathiraj, S., Ramesh, P.T., Leena, G. and Narayanaswamy, H.D., 2017. Clinico-hemato biochemical and ultrasonographic alterations in Dogs with non infectious hepatic disorders associated with hypoalbuminemia. <i>Int. J. Adv. Biol.Res.</i> , 7(3):585-589.  |
| 31 | Pradeep, K., Yathiraj, S., Ramesh, P.T., Leena, G. and Narayanaswamy, H.D., 2017. Therapeutic evaluation of hydroxyl ethyl starch and amino acid infusion in management of hypoalbuminemia in dogs with hepatic disorders. <i>Int. J. Adv. Biol.Res.</i> , 7(3):590-594.  |
| 32 | Bharath, S.V. and Nagaraja, B.N., 2018. Studies on comparative evaluation of wound healing between the surgically excised and zap strap applied tumour wounds of skin and subcutaneous tissue in dogs. <i>Int. J. of Sci. and Res.</i> , 7(3):918-922.  |
| 33 | Shivakumar, E., Suresh, L. and Nagaraja, B.N., 2018. Successful surgical management of cloacal prolapsed in a turtle. <i>Int. J. of Sci. and Res.</i> , 7(3):1786-1789.   |
| 34 | Amith, N.G. and Nagaraja, B.N., 2017. Chondroblastoma in dog- A rare case. <i>Int. J. of Sci. and Res.</i> , 6(5):487-488.  |
| 35 | Sunita Behera, Chandrashekar Murthy, V., Krishna Swamy, A., Girish Kumar, Suguna Rao, Nagaraja, B.N., 2017. Studies on Bacterial profile of Repeat breeding cows with subclinical endometritis, <i>Int. J. of Sci. and Res.</i> , 6(6):2090-2091.   |
| 36 | Amith, N.G., Sandesh, K.V. and Nagaraja, B.N., 2017. Surgical repair of congenital ectovaginal fistula and atresia Ani in a lamb. <i>Int. J. of Sci. and Res.</i> , 6(9):12-14.   |
| 37 | Dhoolappa, Prasad, R.V., Jamuna, K.V., Narayanaswamy, H.D., Nagaraja, B.N., Chandrashekar Murthy and Lakshmishree, K.T., 2017. Biometry of hoof in Dairy animals and its clinical implications for designing of cow slips. <i>Int. J. Livestock Res.</i> , 7(6):186-189.  |



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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪಶುವೈದ್ಯಕೀಯ ಕಾಲೇಜು, ಬಿದರ

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| 38                               | Sahadev, A., Krishnaswamy, A., Suda, G., Narayana Bhat, M.N., Naryanaswamy, M., Nagaraja, B.N. and Suryanarayana, 2017. Studies on aerobic bacterial flora associated with postpartum subclinical endometritis in crossbred dairy cows. <i>Int.J.Curr.Microbiol.App.Sci.</i> , 6(7).  |
| <b>VETERINARY COLLEGE, BIDAR</b> |   |
| 1                                | Jaishankar, N., Ramachandra, B., Thirumalesh, T., Jag Jiwan Ram, Biradar, U.S., Jadhav, N.V. and Suranagi, M.D., 2017. Utilization of unconventional sugarcane trash as feed in Narisuwarna x Kenguri sheep. <i>Int. J. Appl Pure Sci Agric.</i> , 3(2):52-55.  |
| 2                                | Jaishankar, N., Ramachandra, B., Thirumalesh, T., Jag Jiwan Ram, Biradar, U.S. and Suranagi, M.D., 2017. Validation of energy estimates of urea ammoniated sugarcane trash based diets obtained from RIVIGPT and <i>In-vivo</i> trial in Narisuwarna x Kenguri F1 lambs. <i>Int.J.Innov.Res. Sci. Engg. Tech.</i> , 6(6):12014-12018. |
| 3                                | Jaishankar, N., Ramachandra, B., Thirumalesh, T., Jag Jiwan Ram, Biradar, U.S. and Suranagi, M.D., 2017. Comparison of energy estimates of mixed diets obtained from RIVIGPT and <i>in vivo</i> digestibility trial in NariSuwarna x Kenguri F1 sheep. <i>Int J. Livest Res.</i> , 7(10):209-215.                                     |
| 4                                | Sangamesh, Appannavar, 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                                | Bharadwaja Krishna, M., Sharma, G.R.K. and Channappagouda, B., 2017. Veterinary as a career choice: An exploratory study in Andhra Pradesh. <i>Int.J.Sci.Enviro.Tech.</i> , 6(2):1202-1205.   |
| 6                                | Bharadwaja Krishna, M., Sharma, G.R.K. and Channappagouda, B., 2017. Prospective career dimensions of undergraduate veterinary students in Andhra Pradesh. <i>Int.J.Livest.Res.</i> , 7(2):144-147.   |
| 7                                | Bharadwaja Krishna, M., Channappagouda, B. and Bhaskar Mada, 2017. A perspective study on exploration of usefulness of present veterinary education system in career decisions among veterinary students in Andhra Pradesh. <i>Int. J. Sci. Environ. Tech.</i> , 6(3):1824-1827.  |
| 8                                | Gopala, G.T., Sasidhar, P.V.K., Veeranna, K.C., Harisha, M. and Channappagouda. B., 2017. A comparative study on technical and economic performance of contract and non-contract broiler farming systems in Karnataka. <i>Int. J. Livest Res.</i> , 7(2):121-128.   |
| 9                                | Prakashkumar Rathod, Shivamurty, V. and Channappagouda Biradar, 2017. Prevention and control of sub-clinical mastitis (SCM) in dairy animals: participatory on-farm trial (OFT) in Bidar district of Karnataka, India. <i>Int. J. Livest. Res.</i> , 7(12):263-272.   |
| 10                               | Prakashkumar Rathod, Mahesh Chander and Dwaipayana Bardhan, 2018. Status of public agricultural research and extension in Asia: A case of missing links in indian livestock sector. <i>The J. Anim. Plant Sci.</i> , 28(2):623-635.   |
| 11                               | Chandrashekhar, Shrikant Kulkarni, Sathisha, K.B., Srinivas Reddy Bellur, Vinay Tikare, P., Reddy, I.J. and Kartikesh, S.M., 2017. Seasonal effects on serum biochemical and hormonal profile in Deoni crossbred cow. <i>B. Environ. Pharmacol. Life Sci.</i> , 6(12):59-62.  |
| 12                               | Abhilash, B., Basavaraj, A., Shambulingappa, B.E., Pradeep, B.S., Padalkar, R.D., Karthikesh, S.M., Revappayya, M. and Madhavi, K., 2017. Detection of goat pox antibody by counter-immunoelectrophoresis and agar gel immunodiffusion test. <i>Int. J. Agr Sci.</i> , 8(1):12-14.  |
| 13                               | Revappayya, M., Basavaraj, A., Shambulingappa, B.E., Suryaprasad, V., Ravindra, B.G., Pradeep, B.S. and Abhilash, B., 2017. Safety and immunogenicity of <i>Brucella melitensis</i> Rev-1 vaccine through subcutaneous route in sheep and goats. <i>Int. J. Agr. Sci.</i> , 8(1):67-71.   |



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| 14 | Paramesh, B.N., Basavaraj, A., Arun, S.J. and Bhojar, R., 2017. Studies on molecular characterization of <i>Salmonella spp.</i> isolated from field samples of small ruminants. <i>Int. J. Curr. Micro. App. Sci.</i> , 6(4):771-776.   |
| 15 | Abhilash, B., Basavaraj, A., Shambhulingappa, B.E., Pradeep, B.S., Paramesh, N.B., Revappayya, M. and Madhavi, K., 2017. Evaluation of humoral immune response in goats vaccinated with goat pox vaccine. <i>Int. J. Bio. Sci.</i> , 8(2):85-88.  |
| 16 | Avinash, B., Supraja, N., Charitha, V.G., Adeppa, J. and Prasad, T.N.V.K.V., 2017. Evaluation of the anthelmintic activity ( <i>in-vitro</i> ) of neem leaf extract- mediated silver nanoparticles against <i>Haemonchus contortus</i> . <i>Int J. Pure App Bio Sci.</i> , 5(2):118-128.                    |
| 17 | Rajshekhar, M.B., Tandle, M.K., Vinay, P.T., Sugunarao, Basawaraj, A., Bijurkar, R.G. and Girish, M.H., 2018. Abattoir study of reproductive organs abnormality in Osmanabadi does. <i>Livestock Res. Internal.</i> , 6(1):20-24.   |
| 18 | Janagi, H.S., Tandle, M.K., Vinay, P.T., Usturge, S.M. and Jadhav, N.V., 2017. Reproductive performance evaluation of Kenguri ewes by breeding with NARI Suwarna frozen thawed semen. <i>Pharma Innovn. J.</i> , 6(10):102-105.   |
| 19 | Hiralal Janagi, S., Tandle, M.K., Vinay, P.T., Usturge, S.M. and Jadhav, N.V., 2017. Production of new Kenguri strain-1 of sheep by breeding with NARI-Suwarna frozen thawed semen. <i>Int J Livest Res.</i> , 7(10):59-64.   |
| 20 | Sateesha, A.G., Vivek Kasaralikal, R., Patil, N.A., Bhojar, R.G., Vivek, M.P. and Shivaprakash, B.V., 2018. Study on metabolic profile of Deoni cows in transition period. <i>Pharma Innovation J.</i> , 7(1):299-302.  |
| 21 | Manjunath Patil, Dilipkumar, D., Shivaprakash, B.V., Vivek Kasaralikal, R., Vinay Tikare, P. and Ramesh, B.K., 2017. Physiological and haemato-biochemical changes during repair of femur fracture in dogs. <i>The Pharma Innovation J.</i> , 6(8):381-385.   |
| 22 | Venkatgiri, Dilipkumar, D. and Shivaprakash, B.V., 2017. Comparative evaluation of Romifidine-Ketamine and Xylazine-Ketamine induction combination for isoflourane anesthesia in cattle. <i>The Pharma Innovation J.</i> , 6(8):114-118.  |
| 23 | Arunkumar, Dilipkumar, D., Shivaprakash, B.V. and Bhagvantappa, B., 2017. Comparison of right flank and ventral midline approach for ovariohysterectomy in dogs. <i>J. Entm and Zoo Studies</i> , 5(6):2411-2416.   |
| 24 | Bhagvantappa, B., Usturge, S.M., Dilipkumar, D., Shivaprakash, B.V., Vivek Kasaralikal, R., Ashok, P. and Vinay Tikare, P., 2017. Prevalence of ruminal acidosis in goats. A five year retrospective study. <i>Int. J. Liv. Res.</i> , 7(12):224-230.   |
| 25 | Bhagvantappa, B., Usturge, S.M., Dilipkumar, D., Shivaprakash, B.V., Vivek Kasaralikal, R., Ashok, P. and Vinay Tikare, P., 2017. Hematobiochemical changes during medicinal and surgical treatment in clinical goats affected with acute ruminal acidosis. <i>The Pharma Innovation J.</i> , 6(7):887-889. |
| 26 | Sateesh, A.G., Roopali, B., Ravindra, B.G., Arun Kumar, Abhilash, B. and Dhabale, R.B., 2017. A study on comparison of Haemato bio chemical changes in Haemoglobinuria in buffalos. <i>The Pharma Innovation J.</i> , 6(11):125-128.  |

**VETERINARY COLLEGE, SHIVAMOGGA**

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| 1 | Dhoolappa, M., Prasad, R.V., Jamuna, K.V., Narayanswamy, H.D., Nagaraj, B.N., Murthy V.C. and Lakshmishree, K.T., 2017. Biometry of hoof in dairy animals and its clinical implications for designing of cowslips. <i>International Journal of Livestock Research</i> , 7(6):186-191. |
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| 2  | Revappayya, M., Basavaraj, A., Shambulingappa, B.E., Suryaprasad, V., Ravindra, B.G., Pradeep, B.S. and Abhilash, B., 2017. Safety and Immunogenicity of Brucella Melitensis Rev-1 Vaccine Through Subcutaneous Route In Sheep and Goats. <i>International Journal on Agricultural Sciences</i> , 8(1):67-71.   |
| 3  | Abhilash, B., Basavaraj, A., Shambulingappa, B.E., Pradeep, B.S., Padalkar, R.D., Karthikesh, S.M., Revappayya, M. and Madhavi, K., 2017. Detection of Goatpox Antibody by Counter-immunoelectrophoresis and Agar Gel Immunodiffusion Test. <i>International Journal on Agricultural Sciences</i> , 8(1):12-14.   |
| 4  | Vinayananda, C.O., Mohamed Nadeem Fairoze, Madhavaprasad, C.B., Byregowda, S.M., Nagaraj, C.S. and Nagappa Karabasanavar, 2017. Studies on occurrence, antibiogram and decontamination of <i>Salmonella enterica</i> in table eggs. Studies on occurrence, antibiogram and decontamination of <i>Salmonella enterica</i> in table eggs. <i>Int. J. Curr. Microbiol. App. Sci.</i> , 6(3):2163-2175. |
| 5  | Vinayananda, C.O., Nadeem Fairoze, Madhavaprasad, C.B., Byregowda, S.M., Nagaraj, C.S., Prashanth Bagalkot and Nagappa Karabasanavar, 2017. Studies on occurrence, characterisation and decontamination of emerging pathogenic <i>Escherichia coli</i> (STEC, ETEC and EIEC) in table eggs. <i>British Poultry Science</i> , 58(6):664-672.   |
| 6  | Nagappa Karabasanavar, Girish, P.S., Deepak Kumar and Singh, S.P., 2018. Detection of beef adulteration by mitochondrial D-loop based species-specific polymerase chain reaction. <i>Inter J Food Properties</i> , 20(2):2264-2271.   |
| 7  | Shridhar, N.B., 2017. Toxicity episodes of Mimosa invisa in cattle. <i>Toxicology International</i> , 24(2):224-227.  |
| 8  | Shridhar, N.B., 2017. Therapeutic management of toxicity of Ficus tsjahela in cattle. <i>Toxicology International</i> , 24(3):313-318.  |
| 9  | Abhilash, B., Shambulingappa, B.E. et al., 2017. Evaluation of Humoral Immune response in Goats vaccinated with Goat-pox vaccine. <i>Int.J. on Biological Sciences</i> , 8(2):85-88.  |
| 10 | Revappayya, M., Shambulingappa, B.E. et. al., 2017. Evaluation of safety and immunogenicity of <i>Brucella melitensis</i> Rev-1 vaccine administered through conjunctival route in sheep and goats. <i>International Journal on Biological Sciences</i> , 8(2):103-107.   |

#### VETERINARY COLLEGE, HASSAN

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KARNATAKA VET. ANIM. SCI. UNIV.

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| 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, Pp482.   |
| 12 | Kavya, N., Suguna Rao, Sathyanarayana, 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, Pp417.   |



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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> .  |
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| 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., Rathanamma, 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, Pp385.  |
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| 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, Pp428.  |
| 23 | Kavitha Rani, B., Suguna Rao, Satyanarayana, M.L., Narayanaswamy, H.D., Purushothama, K.M. and Shridhar, N.B., 2017. <i>Gymnema sylvestre</i> 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, Pp370. |
| 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, Pp481.   |
| 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, Pp466.  |
| 26 | Syeda Sumaiya, Suguna Rao, Satyanarayana, M.L., Byregowda, S.M., Chandranaik, 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, Pp94.  |



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| 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, Pp448.                       |
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| 31 | Jeevan, K., Suguna Rao, Sathyanarayana, M.L., Mohamed Ghouse, 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, Pp302. |
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| 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, Pp489.   |



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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>Muraya 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, Pp384.                                    |
| 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, Pp316.  |
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| 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, Pp377.   |
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| 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, Pp322.  |



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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, Pp491.   |
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| 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, Pp380. |



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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, Pp374. |
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| 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, Pp317.   |
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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 epitheloid 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, Pp488.  |
| 55 | 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 Sreesujatha, R.M., 2017. Evaluation of inactivated Mycobacterium avium subspecies paratuberculosis 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, Pp52. |
| 56 | Mukartal, 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 Mycobacterium avium subsp. Paratuberculosis 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, Pp93.                                     |
| 57 | Mukartal, 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 Mycobacterium avium subsp paratuberculosis 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, Pp115.    |
| 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, Pp108.   |
| 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, Pp125.  |



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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, Pp317.                               |
| 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, Pp447. |
| <b>VETERINARY COLLEGE, BIDAR</b> |   |
| 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>Butyrivibrio fibrisolvens</i> . WASET, Bangkok, Thailand, on 18 <sup>th</sup> -19 <sup>th</sup> January, 2018, Pp7.  |
| 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 <sup>th</sup> -18 <sup>th</sup> Aug., 2017, Pp808-810.   |
| 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 <sup>th</sup> -19 <sup>th</sup> January, 2018, Pp1030.   |
| 4                                | Arun Kharate, Sarata Kumar Sahu, Susen Kumar Panda, Niranjana Sahoo and Panda, H.K., 2018. Prevalence, isolation and identification of feline panleukopaemia virus from wild felids in Nandankanan Zoo, Odisha. XX ICVSMP, Bangkok, Thailand, 18 <sup>th</sup> -19 <sup>th</sup> January, 2018, Pp903.  |
| 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 <sup>th</sup> -19 <sup>th</sup> Jan., 2018, Pp901.   |
| 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 <sup>th</sup> -13 <sup>th</sup> Feb., 2018, Pp263.  |
| 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 <sup>th</sup> Feb., 2018, Pp694.  |
| 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 <sup>th</sup> -9 <sup>th</sup> Feb., 2018, Pp237.          |



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| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |  |
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| 1                                     | Lakshmishree, K.T., Triveni, T., Dhoolappa, 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 <sup>th</sup> Bengaluru INDIA NANO, International conference at Bengaluru 7-8 <sup>th</sup> Dec., 2017, Pp28.  |
| 2                                     | Dhoolappa, M., Prasad, R.V., Sundarshan, S., Shivaprakash, B.V. and Falguni Pati, 2017. A Novel Approach for Developing NanoBioiNK for 3D BioPrinting for Bone for Orthopaedic Applications ....a step towards integration of 3D Printing and Nanotechnology. IX <sup>th</sup> Bengaluru INDIA NANO, International Conference at Bengaluru 7-8 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology at Kuala Lumpur, Malaysia, Pp530.  |
| <b>VETERINARY COLLEGE, HASSAN</b>     |  |
| 1                                     | Girish, B.C., Ambujakshi, T.C., Shilpa, V.T., Manjunatha, K.P. and Jayaramu, G.M., 2017. Pathology of Pimpily 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp54. |
| 5                                     | Manjunath, K.P., Shilpa, V.T., Roopadevi, Y.S., Ravikumar, P., Girish, B.C. and Chandrashekar, K.M., 2017. Pullorum disease outbreak in young chicks. AVPC 2017. Veterinary College, 9-11 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp294.   |
| 8                                      | Manjunatha, K.P., Shilpa, V.T., Roopadevi, Y.S., Ravikumar, P., Girish B.C. and Chandrashekar, 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp251.  |
| 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp147.  |
| 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp78.  |
| 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 <sup>th</sup> Nov., 2017, Pp390.  |
| 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 <sup>th</sup> November 2017, Bengaluru, Pp294.  |
| 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp261. |
| 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 <sup>th</sup> Nov., 2017, Bengaluru, Pp89.   |
| <b>DAIRY SCIENCE COLLEGE, KALBURGI</b> |   |
| 1                                      | Devaraju, R., Kalla, M., Adarsh and Praveen, A.R., 2017. The IRES 63 <sup>rd</sup> International conference, Bangkok, Thailand, March 5-6, 2017, Pp20-24.   |

## ii) National Publications

### a) Publications in Journals

| #                                    | Year/ Authors / Title of Paper / Journal  |
|--------------------------------------|---|
| <b>VETERINARY COLLEGE, BENGALURU</b> |   |
| 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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ಕರ್ನಾಟಕ ವನ್ಯಾಯ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

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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 ( $\beta_2M$ ) gene and its association with colostral IgG levels in buffaloes ( <i>Bubalus bubalis</i> ). <i>Indian J Anim Res.</i> , 52(1):51-55. |
| 5  | Naveen Kumar, S., Jayashankar, M.R., Nagaraja Ramakrishnappa, Wilfred Ruban and Sreesujatha, R.M., 2017. Carcass and meat quality characteristics of Bandur ram lambs. <i>Indian J. Anim. Res.</i> , DOI:10.18805/ijar. B-3261.   |
| 6  | Guruprasad, R., Rajeshwari, Y.B., Naveen Kumar, S., Vivek, M. Patil, Jayashree, R., Shivakumar, R. and Supriya, S., 2018. Socio-economic status of sheep farmers across two agro-climatic zones of Hassan district. <i>Life Sciences</i> , 5(1):63.   |
| 7  | Sakshi, S., Satyanarayan, K., Jagadeeswary, V. and Shilpa, 2017. Awareness on Common Diseases Encountered in Pet Dogs and Constraints Faced in Prevention of Diseases. <i>Journal of Animal Health and Production</i> , 5(1):36.  |
| 8  | Vranda, R., Satyanarayan, K., Jagadeeswary, V., Veeranna, K.C., Rajeshwari, Y.B., Sudha, G. and Shilpa Shree, J., 2017. A study on different housing practices of buffaloes in Bidar district of Karnataka. <i>International Journal of Science, Environment and Technology</i> , 6(1):295-305.   |
| 9  | Vranda, R., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. A Study on Breeding and Calf Management Practices in Bidar District of Karnataka An Exploratory Study. <i>Mysore J. Agric. Sci.</i> , 51(2):446-453.   |
| 10 | Chandrasekar, G.K., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. Relationship between Socio-Economic and Psychological Factors of Dairy Farmers with Days Open – A Study in Rural Karnataka. <i>International Journal of Pure and Applied Bioscience</i> , 5(1):171-177.  |
| 11 | Chandrasekar, G.K., Satyanarayan, K., Jagadeeswary, V., Sudha, G., Rajeshwari, Y.B., Prabhu, T.M. and Shilpa Shree, J., 2017. Evaluation of Management Practices and Its Impact on Days Open in Crossbred Cows of Bengaluru Rural District. <i>Mysore J. Agric. Sci.</i> , 51(3):706-712.   |
| 12 | Mahesh Savanur, Satyanarayan, K., Jagadeeswary, V., Lalith Achoth and Jayashankar, M.R., 2017. Critical Analysis on Price Determinants of Cattle. <i>Mysore J. Agric. Sci.</i> , 51(3):742-744.   |
| 13 | Mahesh Savanur, Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. Study on Growth and Composition of Cattle Markets in Eastern Dry Zone of Karnataka. <i>Indian Journal of Veterinary Sciences and Biotechnology</i> , 13(2):54-57.  |
| 14 | Pavan Belakeri, Satyanarayan, K., Jagadeeswary, V., Yathiraj, S., Veeranna, K.C. and Rajeshwari, Y.B., 2017. Effectiveness of Mobile App on fodder production in terms of knowledge gain among livestock farmers of Karnataka. <i>Indian Journal of Extension Education</i> , Special Issue on Veterinary Research and Extension, 10-15.      |



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| 15 | Pavan Belakeri, Satyanarayan, K., Jagadeeswary, V., Yathiraj, S., Veeranna, K.C. and Rajeshwari, Y.B., 2017. Socio-economic characteristics and information Seeking behavior of livestock farmers of Karnataka, India. <i>International Journal of Science, Environment and Technology</i> , 5(6):4320-4327.   |
| 16 | Jagadeeswary Vankayala, Lavanya Ramalingia, Satyanarayan Kamardi, Narasimhamurthy, H.N. and Shilpa Shree, J., 2017. Consumption Pattern of Coloured Broiler Birds in Karnataka. <i>International Journal of Livestock Research</i> , 7(3):10-15.   |
| 17 | Lavanya, R., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017, Socio-Economic, Psychological Characteristics and Constraints Faced by Farmers in Marketing of Coloured Broiler Birds in Karnataka. <i>International Journal of Pure and Applied Bioscience</i> , 5(1):1000-1007.  |
| 18 | Lavanya, R., Satyanarayan, K., Jagadeeswary, V., Narasimha Murthy, H. N., Upendra, H. A. and Shilpa Shree, J., 2017. Marketing Pattern of Coloured Broiler Birds in Karnataka. <i>International Journal of Livestock Research</i> , 7(4):10.   |
| 19 | Vranda, R., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. Health Care Management Practices followed by Buffalo Rearing Farmers in Bidar, Karnataka. <i>International Journal of Livestock Research</i> , 7(5):220-227.  |
| 20 | Vranda, R., Satyanarayan, K., Jagadeeswary, V. and Shilpa Shree, J., 2017. Milking and marketing practices of Buffalo farmers in Karnataka. <i>Indian J. Anim. Hlth.</i> , 56(1):43-52.  |
| 21 | Ajith, B., Jagadeeswary, V. and Satyanarayan, K., 2017. A Comparative study on the structure and Functioning of SHG's promoted by various Institutions. <i>International Journal of Livestock Research</i> , 7(5):220-227.   |
| 22 | Kiran Mariswamy, Jagadeeswary Venkayala, Satyanarayan Kammardi and Mutturaj Yadav Earagariyanna, 2017. Economic and Environmental Impact of Legume Fodders on Livestock Production. <i>International Journal of Livestock Research</i> , 7(5):220-227.   |
| 23 | Mohankumar, S., Satyanarayan, K., Jagadeeswary, V. and Manjunatha, L., 2017. Milking Practices Adopted in Individual and Community Milking System at Animal Level. <i>Int. J. Pure App. Biosci.</i> , 5(3):431-435.  |
| 24 | Dinakar, H.P., Satyanarayan, K., Jagadeeswary, V., Veeranna, K.C. and Shilpa Shree, J., 2017. An exploratory study on marketing pattern of mandya sheep in Karnataka. <i>International Journal of livestock research</i> , 8(1):90-95.   |
| 25 | 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>International Journal of Livestock Research</i> , 7(12):101-110.   |
| 26 | Shashikumar, M.G., Prabhu, T.M., Gloridoss, R.G., Chandrapal Singh, K., Suresh, B.N., Siddalingamurthy, H.K. and Manjunatha, S.S., 2017. Effect of feeding maize ( <i>Zea mays</i> ) husk and cob based complete feed block on intake, nutrient utilization and growth in Mandya sheep. <i>Indian Journal of Animal Nutrition</i> , 34(2):135-139.   |
| 27 | 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 techniques. <i>International Journal of Innovative Research in Science, Engineering and Technology</i> , 6(6):10976-10982. |



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| 28 | Nagesh, H., Bhavishya Kumar, G.G., Prabhu, T.M., Gloridoss, R.G., Singh, K.C. and Suresh, B.N., 2017. Performance of Goat kids fed detoxified castor bean meal based concentrate feed mixtures. <i>Animal Nutrition and Feed Technology</i> , 17:343-351.  |
| 29 | Giridhar, K.S., Gloridoss, R.G., Nadeem Fairoze, Prabhu, T.M. and Manju, G.U., 2017. Effect of feeding detoxified Karanj ( <i>Pongamia glabra</i> ) seed meal on carcass characteristics of broiler rabbits. <i>Frontier Journal of Veterinary and Animal Sciences</i> , 6(1):65-70.   |
| 30 | Kavya, P.S., Prabhu, T.M., Pradeep, R., Gloridoss, R.G., Chandrapal Singh, K., Suresh, B.N. and Siddalingamurthy, H.K. 2018. Nutritional evaluation of spent maize ( <i>Zea mays</i> ) cobs as roughage source in sheep feeding. <i>Indian Journal of Small Ruminants</i> , 24(1):57-61.   |
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ಕರ್ನಾಟಕ ವನ್ಯಾಯ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

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| 74                                | Sheela, P., Sundareshan, S. and Dhanalakshmi, S., 2018. Isolation of <i>E. coli</i> from rare fatal septicemic cases in new born pups. XXXI Annual convention of IAVMI, 29 <sup>th</sup> to 31 <sup>st</sup> Jan., 2018, Tirupati, (Poster presentation -Technical Session V).   |
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| 1                                 | 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 <sup>th</sup> -19 <sup>th</sup> May, 2017, SKUAST-Kashmir, Pp169.   |
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| 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 <sup>th</sup> Conference for Veterinary Students in Chennai-2017, Paper ID 9017.  |
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| 8                                 | Balaraju, B.L., Manjunatha, L., Sharad, A.R. and Sunil Kumar, S.P., 2018. Block the bite by mosquito net: Farmer’s innovation in protecting the livestock from mosquito bites. 7 <sup>th</sup> IVEF National Conference on shaping Livestock Extension Advisory Services for Doubling Farmer’s Income. 28 <sup>th</sup> -31 <sup>st</sup> , Jan., 2018, Shivamogga, Pp130.                       |
| 9                                 | Chandrashekhara, N., Roopadevi, Y.S., Sharada, R., Shilpa, V.T., Chandrashekar, 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 <sup>st</sup> Jan., 2018, Tirupati, Pp223. |
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| 12 | Shivakumar, M.C., Suresh, B.N., Prashant, J.K., Vinuthan, M.K., Chethan, K.P. and Sunilkumar, M.A., 2017. Influence of supplementing Anise seeds powder on performance o and Haemotology of improved Backyard Birds. National Symposium on livestock resource management under changing climate scenario, 17 <sup>th</sup> to 19 <sup>th</sup> May, 2017, SKUAST-Kashmir, Pp160.   |
| 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 <sup>nd</sup> -3 <sup>rd</sup> , Nov., 2017, Tirupati, Pp4.   |
| 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 <sup>nd</sup> Sep., 2017, Avikanagar, Pp48-49.   |
| 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 <sup>th</sup> IVEF National Conference on shaping Livestock Extension Advisory Services for doubling Farmer's Income, 28 <sup>th</sup> – 31 <sup>st</sup> Jan., 2018, Shivamogga, Pp100.  |
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| 17 | Kotresh, A.M., Sunilchnadra, U., Shrikanth Kulkarni, Siddalingeswamy Hiremath and Ravikumar, C., 2017. Ethical Issues: Alternatives for Animal Use in Education., XXVI Annual Conference, Socity of Animal Physiology., 21 <sup>st</sup> - 22 <sup>nd</sup> Dec., 2017, Veterinary College, Bidar, Karnataka, Pp82.  |
| 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 <sup>th</sup> – 9 <sup>th</sup> Feb., 2018, NTR College of Veterinary Science, Gannavaram, Pp99.  |
| 19 | Ranganath, L., 2018. Wounds and their Management in Animals. 20 <sup>th</sup> Conference of International Society of Wound Management (ISWM) WOUNDCON. Annual Conference of Indian Society of Wound Management (ISWM), 16 <sup>th</sup> -18 <sup>th</sup> Feb., 2018, SDM College of Ayurveda and Hospital, Pp20.  |
| 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.  |
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| 30 | Rashmi Sharma., Girish, B.C. and Karunakakara, K.N., 2018. Porcine Cysticercosis a challenge for marginal pig farming, 7 <sup>th</sup> National conference on shaping livestock extension advisory services for doubling farmers’ income. 29-31 <sup>st</sup> 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 <sup>th</sup> Sep., 2017, Veterinary College, Hassan, Pp62-68.  |
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| 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 <sup>th</sup> Sep., 2017, Veterinary College, Hassan, Pp55-57.   |



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| 34 | Roopadevi, Y.S., Chandrashekar, K.M., Chandrashekhara, 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 <sup>th</sup> to 31 <sup>st</sup> Jan., 2018, Pp224. |
| 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 <sup>th</sup> to 19 <sup>th</sup> May, 2017, Pp181.  |
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| 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 <sup>st</sup> -22 <sup>nd</sup> Dec., 2017, Veterinary College, Bidar, Pp154.   |
| 41 | Sunil Chandra, U., Shridhar, N.B., Jagadeesh, S. Sanganal, Ravikumar, C. and Ramachandra, S.G., 2017. Evaluation of repeated oral administration of ciprofloxacin in dual purpose liver and kidney function in dual purpose chicken., XXVI Annual Conference, Society of animal Physiology, 21 <sup>st</sup> - 22 <sup>nd</sup> Dec., 2017, Veterinary College, Bidar, Pp119.                                    |
| 42 | Suresh, B.N. and Prabhu, T.M., 2017. Utilization of maize cob by-products as a feed source for ruminant livestock. National Symposium on Livestock Resource Management under Changing Climatic Scenario. 24 <sup>th</sup> Annual Convention of ISAPM.17-19 <sup>th</sup> May, 2017, Pp240-248.   |
| 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 <sup>th</sup> Annual Convention of ISAPM. 17-19 <sup>th</sup> May, 2017, SKUAST-Kashmir, Pp182.            |
| 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 <sup>th</sup> Annual Convention of ISAPM. 17-19 <sup>th</sup> May, 2017, SKUAST-Kashmir, Pp169-170.  |



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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 <sup>nd</sup> Sep., 2017, New Delhi, Pp1-5.   |
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| 49                               | Chandrashekar, K.M., Sharada, R., Ravikumar, P., Chandrashekhara, N. and Vinuthan, M.K., 2018. Microbial profile and antimicrobial effect of donkey milk against <i>Staphylococcus aureus</i> . IAVMI, Veterinary College, SVVU, Tirupati, 29-31 Jan., 2018, Pp91.  |
| 50                               | Chandrashekhara, N., Roopadevi, Y.S., Sharada, R., Shilpa, V.T., Chandrashekar, 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, Pp223.  |
| 51                               | Roopadevi, Y.S., Chandrashekar, K.M., Chandrashekhara, N., Pavankumar, K.N., Sharada, R., Girish, B.C. and Ravikumar, P., 2018. Sudden death of sheep due to Clostridial septicaemia – A case report. IAVMI, Veterinary College, SVVU, Tirupati, 29-31 Jan., 2018, Pp224.   |
| 52                               | Saadath Pasha, Chandrashekar, K.M., Sharada, R., Shashikumar, Manjunath Patil, S.P., Yogesh, N. and Chandrashekhara, N., 2018. Prevalence and control of Brucellosis in Akshayakalpa Dairy Farms in Tiptur, Karnataka. IAVMI, Veterinary College, SVVU, Tirupati, 29-31 Jan., 2018, Pp248.  |
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| 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.  |
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| 9                                      | Vivek, R. Kasaralikal 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.   |
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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 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, Pp244.  |
| 5  | Jayaraj, E.G., Chandrakant Lingadhhal, 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 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, Pp32.   |
| 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 <sup>th</sup> Annual KSTA Conference on Science and Technology for Future of Humanity held at Reva University, Bengaluru during 18-19 January, 2018, Pp178-179.          |
| 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 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, P321.             |
| 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 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, P321.    |
| 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 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November, 2017, P332. |
| 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 <sup>th</sup> Feb, 2018 at Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, TN.   |
| 11 | Chandrashekar Kademane, 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 <sup>th</sup> IFAF, during 21-24, November at Cochin, P141.   |
| 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> National Conference, IVEF, Shimoga.   |



RURAL ORIENTED & FARMER FRIENDLY  
ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪ್ರಾಣಿ ವೈದ್ಯಕೀಯ ಮತ್ತು  
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| 15  | Manjanaik, B., Uikey, M., Kavya, S., Veena Shetty, N. and Somashekarappa, 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 <sup>th</sup> 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 <sup>th</sup> International Indian Fisheries and Aquaculture Forum”, Fostering.  |
| 18  | Supreetha, 2017. Development of dig labeled probes for detection of salmonella. The 11 <sup>th</sup> 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 <sup>th</sup> International Indian Fisheries and Aquaculture Forum”, Fostering.   |
| 20  | Supreetha, 2017. Isolation of lytic phage against multidrug resistant <i>Salmonella Typhimurium</i> . The 11 <sup>th</sup> 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 <sup>th</sup> IFAF. 21 to 24 November, 2017, AV OR 40, P358.   |
| 23  | Rehana Raj, Raju, C.V., Lakshmisha, I.P. and Jag Pal, 2017. Ileal digestibility assay of broiler chicks fed with soybean meal and fish silage as protein supplement in poultry diet. 11 <sup>th</sup> 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 <sup>th</sup> 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 ( <i>Restrelliger Kanagurta</i> ). 11 <sup>th</sup> 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 <sup>th</sup> IFAF, 21 to 24 November, 2017, SF PO 40, P419.                   |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERIANRY BIOLOGICALS, BENGALURU</b> |  |
| 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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ಕರ್ನಾಟಕ ವನ್ಯಾಯ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

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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 Monophosphat Synthase in Breeding Bulls and Detection of Carriers 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 to 21st to 23 <sup>rd</sup> 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 <sup>th</sup> to 11 <sup>th</sup> 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 <sup>th</sup> to 11 <sup>th</sup> 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., Srpada, 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. |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b> |  |
| 1   | Siddashree, Prashant, G. Waghmare and Vivek, M. Patil, 2017. Management practices to mitigate impact of climate change in dairy cattle. XXIV <sup>th</sup> Annual Convention of ISAPM, SKUAST Kashmir, P13.  |
| 2   | Venu, R., Raghuvveera, 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 <sup>th</sup> 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 <sup>th</sup> Annual Convention of ISAPM, SKUAST Kashmir, P69.   |
| 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 <sup>th</sup> Annual Convention of ISAPM, SKUAST Kashmir, Pp80-81.   |
| 5   | Vivek, M. Patil, 2017. Challenges to sustainable livestock production in India. Compilation of Lead Papers, XXVI <sup>th</sup> Annual Conference of SAPI, KVASFU Bidar, Pp133-137.  |
| 6   | Vivek, M. Patil, Rajshekhar, M.B. and Ambadas, 2017. Suitability of Deoni cattle to agro-climatic conditions of North Interior Karnataka. XXVI <sup>th</sup> Annual Conference of SAPI, KVASFU, Bidar, P109.  |
| 7   | Vivek, M. Patil, Rajshekhar, M.B. and Ambadas, 2017. Performance of Deoni cattle under intensive conditions. XXVI <sup>th</sup> Annual Conference of SAPI, KVASFU Bidar, P109.  |
| 8   | Vivek, M. Patil, Rajshekhar, M.B. and Ambadas, 2017. Reproductive performance of Deoni cattle. XXVI <sup>th</sup> Annual Conference of SAPI, KVASFU Bidar, P109.  |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESSARAGHATTA</b> |   |
| 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, P182.   |
| 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, P183.   |
| 3   | Nagarajaiah, C.S. and Harsha Nayak, 2018. Role of State devopmnt of Fisheries, Fisheries Research and Deavlopmnt organizations in capacity building of rura youths for sustainable aquaculture in Karnataka. National Conference on empowerment of rural Communities through Aquaculture, P119.   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA</b>        |   |
| 1   | Jayaraj, E.G., Chandrakant Lingadhhal, Govind, M. Salaskar and Phillipose, K.K., 2017. Marine and Estuarine fish seed resources of Uttara Kannada District, Karnataka. Abstracted in 11 <sup>th</sup> Fisheries and Aquaculture Forum book of abstract held from 21-24 November, 2017 at Kochi, Kerala organised by Asian Fisheries Society Indian Branch.  |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b>              |   |
| 1   | Shivakumar, K. Radder, Shambhulingappa, 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 <sup>th</sup> IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P33. |
| 2   | Shivakumar, K. Radder, Usturge, S.M. and Prakashkumar Rathod, 2018. Yuva Chetana – An Innovative Extension Approach through Youth Mobilization. 7 <sup>th</sup> IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P89.  |
| 3   | Jeevan, M.N., Manjunatha, L., Shivakumar, K. Radder, Balaraju, B.L. and Karunakara, K.N., 2018, Enterprenurial avenues in chaffing and silage making of fodder. 7 <sup>th</sup> IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P100.   |



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| 4 | Shivakumar, K. Radder, Manjunatha, L. and Manjunath, V. Bharamagoudar, 2018. Farmers participatory approach to adoption of fodder chaffing. 7 <sup>th</sup> IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P133.  |
| 5 | Shivakumar, K. Radder and Manjunath, V. Bharamagoudar, 2018. Village Level Livestock Extension Worker (VLLEW) – Concept reinvented. 7 <sup>th</sup> IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P167.  |
| 6 | Shivakumar, K. Radder, Manjunatha, L., 2018. Nine Square Mandala : a wholisitic tool in Livestock Extension Research, 7 <sup>th</sup> IVEF National Conference on Shaping Livestock Advisory Services for Doubling Farmers' Income, 29 to 31, Jan., 2018, P173.  |
| 7 | Shivakumar, K. Radder, 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 <sup>th</sup> 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 /<br>Research Station | Journal    |            | Conference/<br>Symposium/ Seminar/<br>Workshops |            | Total      |
|---|------------|------------|---|------------|------------|
|   | Int.       | National   | Int.  | National   |            |
| Veterinary College, Bengaluru                         | 38         | 100        | 61  | 177        | <b>376</b> |
| Veterinary College, Bidar                             | 26         | 34         | 08  | 92         | <b>160</b> |
| Veterinary College, Shivamogga                        | 10         | 20         | 04  | 74         | <b>108</b> |
| Veterinary College, Hassan                            | 10         | 25         | 14  | 52         | <b>101</b> |
| Veterinary College, Gadag                             | 02         | 03         | 00  | 10         | <b>15</b>  |
| Dairy Science College, Bengaluru                      | 17         | 00         | 00  | 00         | <b>17</b>  |
| Dairy Science College, Kalaburagi                     | 00         | 00         | 01  | 00         | <b>01</b>  |
| College of Fisheries, Mangaluru                       | 17         | 19         | 00  | 26         | <b>62</b>  |
| IAH&VB, Bengaluru                                     | 02         | 02         | 00  | 10         | <b>14</b>  |
| IWVR, Doddaluvara-Kodagu                              | 00         | 00         | 00  | 00         | <b>00</b>  |
| Krishi Vigyan Kendra-Dakshina<br>Kannada, Mangaluru   | 00         | 00         | 00  | 00         | <b>00</b>  |
| FRIC, Hebbal-Bengaluru                                | 03         | 00         | 00  | 00         | <b>03</b>  |
| FRIC, Hesarghatta-Bengaluru                           | 01         | 01         | 00  | 03         | <b>05</b>  |
| FRIC, Bhutnal-Vijayapura                              | 01         | 00         | 00  | 00         | <b>01</b>  |
| FRIC, Ankola-Uttar Kannada                            | 00         | 00         | 00  | 01         | <b>01</b>  |
| LRIC, Nagam angala-Mandya                             | 00         | 01         | 00  | 00         | <b>01</b>  |
| LRIC, Hallikhed-Bidar                                 | 02         | 00         | 00  | 08         | <b>10</b>  |
| LRIC, Konehalli-Tumakuru                              | 00         | 00         | 00  | 00         | <b>00</b>  |
| BRIC, Dornalli-Yadgir                                 | 00         | 00         | 00  | 00         | <b>00</b>  |
| CRIC, Timmapur-Bagalkot                               | 04         | 00         | 00  | 00         | <b>04</b>  |
| AHP, Konehalli-Tumakuru                               | 00         | 00         | 00  | 00         | <b>00</b>  |
| AHP, Kunnur-Haveri                                    | 00         | 00         | 00  | 07         | <b>07</b>  |
| AHP, Koravangala-Hassan                               | 00         | 00         | 00  | 00         | <b>00</b>  |
| AHP, Bargi-Chamrajnagar                               | 00         | 00         | 00  | 00         | <b>00</b>  |
| AHP, Dornalli-Yadgir                                  | 00         | 00         | 00  | 00         | <b>00</b>  |
| <b>Total</b>  | <b>133</b> | <b>205</b> | <b>88</b>                                       | <b>460</b> | <b>886</b> |



## 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



- 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.Shrikrishna 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 14<sup>th</sup> November to 04<sup>th</sup> 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 of Vector Borne Parasitic Diseases” in XXI National Training Programme under CAFTheld from 14<sup>th</sup> November to 04<sup>th</sup> 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 21<sup>st</sup> to 23<sup>rd</sup> 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
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25. Rashmi.R, 'Drug-drug interactions of Veterinary clinical significance' Professional Efficiency development programme, Continued Veterinary Education Programme a refresher course on: 'Therapeutic Pharmacology and Veterinary Toxicology', pp-54-57.
26. Dr.Jayanaik. and Dr.H.C.Indresh. 2017. Koli Sakanikeya tharabethi 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 tarabethi karyakrama. SCP-TSP training programme
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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.Umashankar B. C. and Dr. Suma, N. Nutritional management of buffaloes during transitional period. Pashubandha. 31st January 2018. 07: 01.
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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.
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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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21. Narayana Swamy, M., 2017. Navilu Maithuna, Gauri Lankesh, 12.07.2017.
22. Narayana Swamy, M., 2017. Samaya Paripalaneya Koshanu Samshodhanega Noble Prashasti. Varthabharathi, 09.10.2017. page 7.
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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.**
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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 utphadanega 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,<br>Basavraj Awati,<br>Prakashkumar Rathod and<br>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” | <b>Editors:</b><br>Shrikant Kulkarni<br>Patil N. A.,<br>Srinivas Reddy Bellur<br>Sathisha, K. B. | Dec, 2017        |
| 3. | Booklet             | Giriraja birds rearing  | Biradar Satish Chandra,<br>Prashant Waghmore,<br>Basavraj Hiremath                               | February<br>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” | <b>Chief Editor:</b><br>Shrikant Kulkarni<br><b>Editors:</b><br>Anant Rao Desai,<br>Channappagouda, B.<br>Hiremath, S.<br>Vinay P, Tikare.<br>Kartikesh, S. M.<br>Vijayalakshmi, | December,<br>2017 |
| 5.  | Leaflet                       | Osmanabadi goat   | Siddalingswamy, H.,<br>Channappagouda<br>Biradar, Prakashkumar<br>Rathod and Basavraj<br>Awati   | April,<br>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”              | <b>Editors:</b><br>Shrikant Kulkarni,<br>Channappagouda B,<br>Anant Rao Desai,<br>Kartikesh, S. M.<br>Dr. Patil, N. A.   | Dec, 2017         |
| 7.  | Training chapter              | Heat desiccated Indian dairy products   | Jagannatha Rao B. and<br>Kiran M,  | January,<br>2018. |
| 8.  | Training chapter              | Market milk and milk products   | . Jagannatha Rao B and<br>Kiran M,   | January,<br>2018  |
| 9.  | Training chapter              | Economic utilization of dairy byproducts  | Jagannatha Rao B. and<br>Kiran M,  | January,<br>2018  |
| 10. | Training chapter              | Value addition of livestock products for catering demands of dynamic markets  | Kiran, M and Jagannatha<br>Rao. B.   | February,<br>2018 |
| 11. | Training chapter              | Fat rich dairy products   | Kiran, M. and B<br>Jagannatha Rao  | January,<br>2018  |
| 12. | Training chapter              | Indian dairy products for western market  | Kiran, M. and B<br>Jagannatha Rao  | January,<br>2018  |



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|-----|------------------|--|--|-----------------|
| 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 | Adressing 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 parihaaropayagalu | Venkangoud Doddagoudar, Tandle M.K. and Bijurkar R. G.   | Feb, 2018       |
| 28. | Training chapter | Therapetuic 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 Kasaraliker 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

| # | <i>Name of The Scientist, Title, Year and Date of Publication, Publisher/Remarks</i>  |
|---|---|
| 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 Radder, 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 <sup>st</sup> 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   |
|----------------|--|----------------------------------|---------------|------------------------------|---|
| <b>Folders</b> |  |                                  |               |                              |   |
| 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 |
| <b>Books</b>   |  |                                  |               |                              |   |
| 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. | Chandrashekar, K. M., Shivakumar, M., Ravikumar, P., Ravikumar, C., Sharada, R., Puttalakshamma, G. C., and Vasnth M. S | Zooanthroposes in Veterinarians (Booklet) | 2017                       | Under SCP-TSP grants of KVAFSU |
| 2. | Chandrashekar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani  | Peste des petits ruminants (Leaflet)      | 2017                       | Under SCP-TSP grants of KVAFSU |
| 3. | Chandrashekar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani  | Brucellosis (Leaflet)                     | 2017                       | Under SCP-TSP grants of KVAFSU |
| 4. | Chandrashekar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani  | Black Quarter (Leaflet)                   | 2017                       | Under SCP-TSP grants of KVAFSU |
| 5. | Chandrashekar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani  | Anthrax (Leaflet)                         | 2017                       | Under SCP-TSP grants of KVAFSU |
| 6. | Chandrashekar, K. M., Shivakumar, M., Shivakumar, V. and Shrikanth Doddamani  | Haemorrhagic Septicaemia (Leaflet)        | 2017                       | Under SCP-TSP grants of KVAFSU |



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



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ಕರ್ನಾಟಕ ವನ್ಯಾಯ, ಪ್ರಾಣಿ ಮತ್ತು ಮೀನುಗಾರಿಕೆ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

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



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| 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-Enterpreunerial 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 poultly 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. Puttalakshamma, 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., Aswathanarayanappa. 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, Pp 19-21.
7. Ravikumar, P., Girish, B.C., Shilpa, V.T. and Roopa Devi, Y.S., 2017. Molagalalli kanisuvu rogalu mattu avugala maranottara pariksheya mahatva. Training programme on “*Aadhunika Mola Sakanike*” organized by Veterinary College, Hassan under the DST project on rabbits during 24-25<sup>th</sup> 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 15-17<sup>th</sup> February 2018, Veterinary College, Hassan. Pp 28-31.
9. Girish, B.C. and Manjunatha, L., 2018. Mola sakanikeyalli kandubaruva samanya thodakugalu. Training programme on “*Vyjanika Mola Sakanike*” organized by Veterinary College, Hassan under EEC during 15-17<sup>th</sup> 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.

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 24-25<sup>th</sup> 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 “Vyjnanika Mola Sakanike” organized by Veterinary College, Hassan under EEC during 15-17<sup>th</sup> 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.<br>Asst. Prof. (OPG), Dept. of VCC, VCG | 1. Unit 4: Zoo Animals Production Management.<br>2. Unit-5: Poultry Production Management<br>3. Unit-6: Incubation and Hatchery Management<br>For the courses of Department of Livestock Production and Management |

### DAIRY SCIENCE COLLEGE, KALABURAGI

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|---|--|---|----|
| 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

| # | <i>Authors, Year of Publication, Title of Paper &amp; Conference / Seminar / Symposia / Workshops etc., with Venue, Date &amp; page nos.</i>  |
|---|---|
| 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 | Chandrashekar Kademane, Mridula Rajesh, K. M. Rajesh and K. Vandana, 21-24, November, 2017. The 11 <sup>th</sup> Indian Fisheries and Aquaculture Forum, Cochin  |
| 15 | Raju, C.V., and Lakshmisha, 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.

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: 31<sup>st</sup> 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 Janamadyama (Uttara Kannada Zillamattada Dinapatrike) July, 2017.
16. Dr. Ganesh Hegde a popular article “*Jaanuvaru hotteyallondu samruddha hullugavalu*” published in Janamadyama (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 mansoon season in livestock” in Pashubandha, Vol 6. Issue, 07<sup>th</sup> July 2017.
19. Dr. Ganesh Hegde a popular article “*Ginnada haalu amruta karuvigu (sa)hita*” published in Janamadyama (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 Janamadyama (Uttara Kannada Zillamattada Dinapatrike) August, 2017.
22. Dr. Ganesh Hegde a popular article “*Kecchalu baavu hainugaarara novu*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) September, 2017.
23. Dr. Ganesh Hegde a popular article “*Rabies roga janamadyama*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) September, 2017.
24. Dr. Ganesh Hegde a popular article “*Saavayava haalu utpaadane*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) October, 2017.
25. Dr. Ganesh Hegde a popular article “*Jaanuvarugalige yuriya apaayakaariyalla*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) October, 2017.
26. Dr. Ganesh Hegde a popular article “*Hindi kadime needi hechu haalu hindi*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) November, 2017.
27. Dr. Ganesh Hegde a popular article “*Naayi saakane*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) December, 2017.
28. Dr. Ganesh Hegde a popular article “*Saakunaayigala poshane*” published in Janamadyama (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 Janamadyama (Uttara Kannada Zillamattada Dinapatrike) February, 2018.
32. Dr. Ganesh Hegde a popular article “*Naayigala roga tade mattu lasike*” published in Janamadyama (Uttara Kannada Zillamattada Dinapatrike) February, 2018.
33. Dr. Sobha Rani, A leaflet was prepared on Classical swine fever in English and Kannada



## 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.<br>Sathish, K.B. | Artificial Insemination in Sheep | 2017-18                             | LRIC(S) Nagamangala      |
| 2              | Siddalinga Murthy, H.K.<br>Sathish, K.B. | Dry Fodder Enrichment            | 2017-18                             | „                        |
| 3              | Siddalinga Murthy, H.K.<br>Sathish, K.B. | Silage making and its uses       | 2017-18                             | „                        |
| 4              | Siddalinga Murthy, H.K.<br>Sathish, K.B. | Mandya Sheep-Pride of Karnataka  | 2017-18                             | „                        |
| 5              | Siddalinga Murthy, H.K.<br>Sathish, K.B. | Fodder Production                | 2017-18                             | „                        |



## LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI

### a) Training Manuals:

| # | Month & Year | Authors         | Title of the Training Manual                       |
|---|--------------|-----------------|--|
| 1 | 2017         | M.S. Rudraswamy | <i>Vaignanika Koli sakanike</i>                    |
| 2 | 2017         | M.S. Rudraswamy | <i>Kelasada anubhava- prayogika Kukkuta palane</i> |
| 3 | 2017         | M.S. Rudraswamy | <i>Januvarugalige Mevu utpadane</i>                |

### b) Popular Articles:

| # | Month & Year | Authors  | Title of the article                             | Name of the Magazine/ Bulletin<br>(Vol No:Page No) |
|---|--------------|--|--|--|
| 1 | 2017         | Aditya, M.S. Rudraswamy, Shivakumar and Mohan                | <i>Uttama koligala gunalakshanagalu</i>          | Krishimithra April 2017 Pp10-12                    |
| 2 | 2017         | M.S. Rudraswamy and Vijayalaxmi                              | <i>Koli mottegala rakshane matthu sangrahane</i> | Krishimithra April 2017 Pp14-15                    |
| 3 | 2017         | M.S. Rudraswamy and Sunitha, K.M.                            | <i>Motte pudi thayarike</i>                      | Krishimithra April 2017 Pp14-16                    |
| 4 | 2017         | Shivakummar Radder, M.S. Rudraswamy and Shambulingappa, B.G. | <i>Asampradayaka aharagalu</i>                   | Pashusiri, August-Sept.                            |

### c) Leaflets:

| # | Month & Year | Authors         | Title of the article                                       | Name of the Magazine/ Bulletin<br>(Vol No:Page No) |
|---|--------------|-----------------|--|--|
| 1 | 2018         | M.S. Rudraswamy | <i>Amrithamahal- Namma hemmeya thali</i>                   | Pamphlet   |
| 2 | 2018         | M.S. Rudraswamy | <i>Januvarugalige maraka roga- kecchalu bavu nirvahane</i> | Pamphlet   |
| 3 | 2018         | M.S. Rudraswamy | <i>Rasamevu-Hainu rasugalige kuditta hasiru mevu</i>       | 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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### CANINE RESEARCH AND INFORMATION CENTER, THIMMAPUR, BAGALKOT

|   |   |  |            |   |
|---|---|--|------------|---|
| 1 | Dr. Mahesh S Dodamani<br>Dr. Venkanagoudar<br>Doddagoudar<br>Dr. Channappagouda<br>Biradar<br>Shri Suresh Kumar | Handbook on<br>Mudhol Hound<br>rearing | 15.08.2017 | Published by the CRIC<br>Timmapur, Mudhol |
|---|---|--|------------|---|

### 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<br>N. Chethan<br>S.M. Shivaprakash   | <i>Matsya vigyana<br/>paaribhashika padakosha</i>                      | DOE, KVAFSU,<br>Bidar        |
| 2 | 2017       | Vijaykumar, S.<br>Rajanna, K. B.   | <i>Graamena raithara<br/>susthira abhivrudhigaagi<br/>meenu krushi</i> | DOE, KVAFSU,<br>Bidar        |
| 3 | 2018       | Vijaykumar, S.<br>Rajanna, K.B.<br>Majappa, N.<br>Vijaykumar, S. Atanur<br>Chandrakanth Lingadal | <i>Alankarika menu<br/>Saakanike</i>                                   | FRIC, Bhutnal,<br>Vijayapura |

#### b) Training Manuals

| # | Month & Year   | Authors                                       | Title of the Training Manual  |
|---|----------------|---|---|
| 1 | June, 2017     | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan | <b>Aquaculture</b> -An opportunity for investment and entrepreneurship                    |
| 2 | August, 2017   | K.C. Veeranna<br>K.B. Rajanna<br>N. Manjappa  | Fisheries interventions in watershed development districts under SUJALA-III               |
| 3 | December, 2017 | Suguna Rao<br>N. Chethan<br>K.B. Rajanna      | Practical Manual on Aquatic animal diseases, health care and management.<br>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<br>K.B. Rajanna<br>N. Chethan   | FRIC profile  |
| 2  | Leaflets            | June, 2017        | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Dynamite balasi meenu<br/>hidiyuvudara<br/>dushparinaamagalu</i>   |
| 3  | Leaflets            | June, 2017        | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Krushu upauthpannalannu<br/>balasi uthpathi hechisuva<br/>thanthrikathe</i>                                  |
| 4  | Leaflets            | June, 2017        | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Mishra meenu saakane</i>   |
| 5  | Leaflets            | June, 2017        | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Meenu uthpathi mele neeru<br/>mathu mannina gunagala<br/>prabhava</i>  |
| 6  | Leaflets            | June, 2017        | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Meenu marigala uthpadane,<br/>saakane mathu saagaane</i>   |
| 7  | Leaflets            | June, 2017        | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Malegaladalli meenugarike<br/>nishedha</i>   |
| 8  | Leaflets            | June, 2017        | S. Vijay Kumar<br>Manjappa, N.<br>Vijay, S. Athnur<br>Rajanna, K.B.<br>Harishchandra Jadav<br>Chethan, N. | Aquarium  |
| 9  | Leaflets            | February,<br>2018 | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Krishihondadalli meenugarike</i>   |
| 10 | Leaflets            | February,<br>2018 | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Kola haagu keregalalli<br/>meenugaarike</i>  |
| 11 | Leaflets            | February,<br>2018 | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Meenu marigala uthpaadane,<br/>paalane haagu saakanike</i>   |
| 12 | Leaflets            | February,<br>2018 | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Mannu haagu neerina<br/>raasayanika gunavisheshagalu<br/>haagu meenugarikayalli<br/>avugala pramukhyathe</i> |
| 13 | Leaflets            | February,<br>2018 | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Menu kolagalli kandubaruva<br/>kalegalu haagu avugala<br/>niyanthrane</i>                                    |
| 14 | Leaflets            | February,<br>2018 | K.N. Prabhudeva<br>K.B. Rajanna<br>N. Chethan   | <i>Samagra meenukrishi</i>  |



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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<br>Managing Director<br>Go Fish, Beguru, Bengaluru – 68    | Re-circulatory<br>Aquaculture System   |
| 2  | K.N. Prabhudeva       | Shri. Kedarnath Reddy<br>Managing Director<br>Sashimi Foods Pvt. Ltd.,<br>Bengaluru | Sale of fresh fish and<br>prawns, value added fish<br>production and its sale,<br>Production of food level<br>ice and its sale |
| 3  | K.N. Prabhudeva       | Shri. Mujamil Bhasha<br>Devarahatti village<br>Davanagere Tq & Dist.                | Integrated fish farming  |
| 4  | K.N. Prabhudeva       | Shri. Ravindra Karvi<br>Jaddina Hittilu, Kundapura                                  | Fish rearing in cage   |
| 5  | K.N. Prabhudeva       | Shri. Satyanarayana Amble<br>J.P. Nagar, Bengaluru                                  | Aqua-phonics   |
| 6  | K.N. Prabhudeva       | Smt. Savita Basant Patil<br>Mahalakshampuram, Bengaluru                             | Sale of Ornamental Fishes  |
| 7  | K.N. Prabhudeva       | Shri. Shyam Ayyappa<br>Aqua Ventures, Siddapur, Kodagu                              | Modular Pre-fabricated<br>Enclosures   |
| 8  | K.N. Prabhudeva       | Shri. Sunny D'Souza<br>Mangaluru  | Prawn rearing by Biofloc<br>Technology   |
| 9  | K.N. Prabhudeva       | Shri. Tahir Ahmed Khan<br>Bengaluru   | Ornamental fish rearing  |
| 10 | K.B. Rajanna          | Shri. Pavan Bin Mahadevayya, P.<br>Mukadahalli village<br>Chamarajanagara           | Integrated fish farming in<br>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 reared 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  |
|-------------------------|---------------------|-------------------------------|---|---|
| <b>BOOK</b>             |                     |                               |   |   |
| 1                       | Book                | 2017-18                       | Vijayakumar, S.   | Scientific Fish Farming   |
| 2                       | Book                | 2017-18                       | Vijayakumar, S.<br>Vijay, S. Atnur<br>Y. Basavaraju   | Fish Culture in Ponds<br>(ICAR sponsored under Unnat<br>Bharath Abhihan)  |
| 3                       | Book                | 2017-18                       | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad   | Dictionery For Fisheries<br>Science(English To Kannada)<br>Abhihan Published by<br>Vijayalakshmi Prakashana,<br>Mysore. |
| 4                       | Book                | 2017-18                       | Vijayakumar, S.<br>Co-Editors<br>Vijay, S. Atnur<br>N. Manjappa<br>K.B. Rajanna<br>Chandrakanta<br>Lingadal | Ornamental Fish Culture<br>On the occasion of Mega<br>Fisheries Exhibhition-2018  |
| <b>TRAINING MANUALS</b> |                     |                               |   |   |
| 1                       | Training manuals    | September-2017<br>(5 batches) | Editors<br>Vijayakumar, S.  | Training programme on “Skill development in Agriculture and Agriculture allied” under NRLM                              |
| 2                       | Training manuals    | March 2018<br>(5 batches)     | Vijayakumar, S.   | Training programme on “Skill development in Agriculture and Agriculture allied” under NRLM                              |
| <b>POPULAR ARTICLES</b> |                     |                               |   |   |
| 1                       | Popular articles    | April-2017                    | Vijayakumar, S.<br>Vijay, S. Atnur  | Fish Rearing with zero budget –<br>Published in Kannada Prabha<br>Daily News Paper                                      |
| 2                       | Popular articles    | April-2017                    | Vijayakumar, S.<br>Vijay, S. Atnur  | Minerals and vitamins in Fish<br>Feed - Published in Kannada<br>Prabha Daily News Paper                                 |
| 3                       | Popular articles    | June-2017                     | Vijayakumar, S.   | Soil and Water Management in<br>Fish Ponds – Published in<br>Annadata   |
| 4                       | Popular articles    | Jan 2018                      | Vijayakumar, S.   | Fish varieties (Negila Midita)  |
| 5                       | Popular articles    | Feb 2018                      | Vijayakumar, S.   | Fish and Prawn Rearing (Negila<br>Midita)   |



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| <b>LEAFLETS</b> |          |         |   |  |
|-----------------|----------|---------|---|--|
| 1               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Cage Culture of Fish                                   |
| 2               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Ornamental Fish Culture                                |
| 3               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Rearing Fish Seed in Jumbo hapa                        |
| 4               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Culture of Pungasius                                   |
| 5               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Culture of Tilapia                                     |
| 6               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Life Saviour of Gappies                                |
| 7               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Use of Agricultural Wastes in<br>Enancing Fish Culture |
| 8               | leaflets | 2017-18 | Vijayakumar, S.<br>Vijay, S. Atnur<br>Ganesh Prasad<br>H.S. Jadev | Rearing of Fish Frie in Pen<br>culture                 |

### **FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA**

|                            |  |
|----------------------------|--|
| #                          | Authors, Year of Publication, Title of Paper & Conference / Seminar / Symposia / Workshops etc., with Venue, Date & page nos.  |
| <b>BOOK</b>                |  |
| 1                          | Vijayakumar S (Eds.), K.B. Rajanna, Manjappa N, Vijaya Athnur and Chandrkant Lingadhhal (Co-eds), 2018. Ornamental fish farming. Mega Matsyamela-2018,FRIC(I),Vijayapura.pp37 (Kannada)            |
| <b>SCIENTIFIC ARTICLES</b> |  |
| 1                          | Jayaraj E.G and Chandrakant Lingadhhal,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 Lingadhhal, 2018. Aquarium management In: Ornamental fish farming (Eds. Vijayakumar S (Eds.), K.B. Rajanna, Manjappa N,Vijaya Athnur and Chandrkant Lingadhhal( Co-eds). Mega Matsyamela-2018,FRIC(I),Vijayapura.Pp.35-37 (Kannada) |
| <b>COURSE MANUAL</b>   |   |
| 1                      | Chandrakant Lingadhhal and Basavakumar K.V,2017 .Course Manual on “ Meenu Sakanike” for diploma agriculture students  |
| <b>LEAFLETS</b>        |   |
| 1                      | Chandrakant Lingadhhal,2018.Brackish water shrimp farming & Management leaflet  |
| <b>SUCCESS STORIES</b> |   |
| 1                      | Tiger Shrimp farming :Mr.Venkatesh Lokappa Gaonkar,Pujageri,Ankola :Narration by Chandrakant Lingadhhal   |
| 2                      | Tiger Shrimp farming :Mr.Beeru H Gouda,Belambar,Ankola : Narration by Chandrakant Lingadhhal  |

### 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. Radder   | Popular article on “Precautions while grazing livestock” | 11-07-2017                 | Prajavani daily         |
| 2 | Nagappa Karabasannavar<br>Shivakumar, K. Radder<br>Shambhulingappa, B.G.<br>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            |
| <b>A-I</b>  | <b>GEN FUNDS - STATE GOVERNMENT</b>      |                 | <b>A-I</b>  | <b>GENERAL FUNDS</b>                       |                 |
| <b>1</b>  | <b>Non Plan Grants</b>                   |                 | <b>1</b>    | <b>Salaries &amp; Recurring Charges</b>    |                 |
| 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          |             | <b>Total 1 (a+b+c+d)</b>                   | <b>10840.00</b> |
|   | <b>Sub Total Non-Plan</b>                | <b>10040.00</b> |             |  |                 |
|   |  | <b>0</b>        |             |  |                 |
| <b>2</b>  | <b>Plan Grants</b>                       |                 |             |  |                 |
| a)  | Grant-in-Aid- General                    | -               |             |  |                 |
| b)  | Scheduled Caste Sub-Plan                 | -               |             |  |                 |
| c)  | Tribal Sub-Plan                          | -               |             |  |                 |
|   | <b>Sub Total Plan</b>                    | <b>-</b>        |             |  |                 |
| <b>3</b>  | <b>Education, Extension and Research</b> |                 | <b>2</b>    | <b>Capital Expenditure</b>                 | 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            |
|   | <b>Sub Total Capital</b>                 | <b>4000.00</b>  |             | <b>TOTAL (1 to 5)</b>                      | <b>15240.00</b> |
| <b>4</b>  | <b>RKVY Projects</b>                     |                 |             |  |                 |
| <b>5</b>  | <b>State Adhoc Projects</b>              |                 |             |  |                 |
|   | <b>Sub Total State Adhoc Projects</b>    | <b>0.00</b>     |             |  |                 |
|   | <b>TOTAL -I</b>                          | <b>14040.00</b> |             |  |                 |
|   |  | <b>0</b>        |             |  |                 |
| <b>II</b>   | <b>Grants from Other Agencies</b>        | 0.00            | <b>II</b>   | <b>Schemes Sponsored by other Agencies</b> | 0.00            |
| <b>III</b>  | <b>Government of India Grants</b>        | 0.00            | <b>III</b>  | <b>Government of India Schemes</b>         | 0.00            |
| <b>IV</b>   | <b>ICAR, New Delhi</b>                   |                 | <b>IV</b>   | <b>ICAR, New Delhi</b>                     |                 |
| 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            |
|   | <b>TOTAL IV (a to c)</b>                 | <b>0.00</b>     | d)          | Krishi Vignyana Kendra                     | 0.00            |
| <b>V</b>  | <b>INTERNAL RESOURCES</b>                |                 |             | <b>TOTAL IV (a to d)</b>                   | <b>0.00</b>     |
| a)  | Income from Fees                         | 300.00          |             |  |                 |
| b)  | Income from University Property          | 135.70          |             |  |                 |
| c)  | Other Misc. Income                       | 764.30          |             |  |                 |
|   | <b>TOTAL (V)</b>                         | <b>1200.00</b>  |             |  |                 |
|   | <b>TOTAL (A)</b>                         | <b>15240.00</b> |             | <b>TOTAL A:</b>                            | <b>15240.00</b> |
|   |  | <b>0</b>        |             |  |                 |



RURAL ORIENTED & FARMER FRIENDLY  
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|          |                                |                            |          |                                 |                 |
|----------|--------------------------------|----------------------------|----------|---------------------------------|-----------------|
| <b>B</b> | <b>FOUNDATION FUNDS</b>        |                            | <b>B</b> | <b>FOUNDATION FUND</b>          |                 |
| <b>C</b> | <b>DEPT &amp; SUSPENCE A/C</b> | 10190.8<br>0               | <b>C</b> | <b>DEBT &amp; SUSPENCE A/C.</b> | 10190.80        |
|          | <b>TOTAL (A+B+C)</b>           | <b>25430.8</b><br><b>0</b> |          | <b>TOTAL (A+B+C)</b>            | <b>25430.80</b> |
|          | <b>Add : Opening Balance</b>   | 0.00                       |          | <b>Add : Closing Balance</b>    | 0.00            |
|          | <b>GRAND TOTAL</b>             | <b>25430.8</b><br><b>0</b> |          | <b>GRAND TOTAL</b>              | <b>25430.80</b> |



RURAL ORIENTED & FARMER FRIENDLY  
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## 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

| #                     | Employs Name Designation & Place  | Empl. No. | Date of Birth | Date of Superannuation | Retirement dated |
|-----------------------|---|-----------|---------------|------------------------|------------------|
| <b>TEACHING STAFF</b> |   |           |               |                        |                  |
| 1                     | Dr. M.R. Jayashnakar<br>Professor & Head<br>Veterinary College<br>Hebbal, Bengaluru | 1060      | 17.05.1955    | 17.05.2017             | 31.05.2017       |
| 2                     | Dr. A. Krishna Swami<br>Professor & Head<br>Veterinary College<br>Hebbal, Bengaluru | 1019      | 19.05.1955    | 19.05.2017             | 31.05.2017       |
| 3                     | Dr. Nashimha Murthy<br>Dean<br>Dairy Science College<br>Hebbal, Bengaluru           | -         | 01.06.1955    | 31.05.2017             | 31.05.2017       |
| 4                     | Mr. Krishnappa<br>Associate Professor<br>Dairy Science College<br>Hebbal, Bengaluru | 1068      | 04.06.1955    | 04.06.2017             | 30.06.2017       |
| 5                     | Dr. T. Muneguada<br>Associate Professor<br>Veterinary College<br>Hebbal, Bengaluru  | 1074      | 07.06.1955    | 07.06.2017             | 30.06.2017       |
| 6                     | Dr. Y. Basawaraju<br>Professor & Head<br>FRIC, Bhutanal-Vijayapura                  | 1035      | 01.08.1955    | 31.07.2017             | 31.07.2017       |
| 7                     | Dr. K. Chandrapal Sing<br>Registrar<br>KVAFSU, Bidar                                | 1041      | 08.08.1955    | 08.08.2017             | 31.08.2017       |



RURAL ORIENTED & FARMER FRIENDLY  
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|                           |   |      |            |            |            |
|---------------------------|---|------|------------|------------|------------|
| 8                         | Dr. R. Gidiyan Gloridas<br>Professor & Head<br>Veterinary College<br>Hebbal, Bengaluru            | 1046 | 14.08.1955 | 14.08.2017 | 31.08.2017 |
| 9                         | Dr. Lalit Achoth<br>Professor & Head<br>Dairy Science College<br>Hebbal, Bengaluru                | 1065 | 20.08.1955 | 20.08.2017 | 31.08.2017 |
| 10                        | Dr. H.N. Narashimha Murathy<br>Professor & Head<br>Veterinary College<br>Hebbal, Bengaluru        | 1081 | 10.09.1955 | 10.09.2017 | 30.09.2017 |
| 11                        | Dr. M.S. Vasantha<br>Dean<br>Veterinary College, Hassan   | 1112 | 16.09.1955 | 16.09.1955 | 30.09.2017 |
| 12                        | Dr. B. Hanumantappa<br>Professor<br>College of Fisheries Mangaluru                                | 1049 | 12.10.1955 | 12.10.2017 | 31.10.2017 |
| <b>NON-TEACHING STAFF</b> |   |      |            |            |            |
| 1                         | Mr. Naseguda<br>Laboratory Assistant<br>Veterinary College, Hebbal,<br>Bengaluru                  | 1914 | 01.06.1957 | 31.05.2017 | 31.05.2017 |
| 2                         | Mr. S.G. Hegde<br>Superintendent<br>College of Fisheries Mangaluru                                | 1202 | 05.06.1957 | 05.06.2017 | 30.06.2017 |
| 3                         | Mr. F.M. Hunasikatti<br>Senior Field Assistant<br>Animal Husbandry Polytechnic<br>Shiggaon-Haveri | 1662 | 10.06.1957 | 09.06.2017 | 30.06.2017 |
| 4                         | Mrs. C.R. Rangalakshimma<br>Senior Telephone Operator<br>Veterinary College, Bengaluru            | 1239 | 12.06.1957 | 12.06.2017 | 30.06.2017 |
| 5                         | Mr. Muddahanumayya<br>Senior Farm Labour<br>Veterinary College<br>Hebbal, Bengaluru               | 1388 | 06.08.1957 | 06.08.2017 | 31.08.2017 |
| 6                         | Mrs. S. Nanjamma<br>Senior Janitor Grade-1<br>Veterinary College<br>Hebbal, Bengaluru             | 1415 | 08.08.1957 | 08.08.2017 | 31.08.2017 |
| 7                         | Mr. Maddurappa<br>Senior Poultry Attender Grade-1<br>Veterinary College<br>Hebbal, Bengaluru      | 1467 | 08.08.1957 | 08.08.2017 | 31.08.2017 |



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|    |   |      |            |            |            |
|----|---|------|------------|------------|------------|
| 8  | Mr. A. Munisawmy<br>Attender<br>Veterinary College<br>Hebbal, Bengaluru                       | 1351 | 04.09.1957 | 04.09.2017 | 30.09.2017 |
| 9  | Mr. Obaleshappa<br>Senior Animal Attender Grade-1<br>Veterinary College<br>Hebbal, Bengaluru  | 1425 | 28.09.1957 | 28.09.2017 | 30.09.2017 |
| 10 | Mr. K.G. Murati<br>Senior Poultry Attender Grade-1<br>Veterinary College<br>Hebbal, Bengaluru | 1470 | 25.09.1957 | 25.09.2017 | 30.09.2017 |
| 11 | Mrs. Nalini, K.<br>Superintendent (G)<br>College of Fisheries, Mangaluru                      | 1211 | 19.12.1957 | 19.12.2017 | 31.12.2017 |
| 12 | Smt. Jayamma<br>Senior Farm Labour<br>Veterinary College<br>Hebbal, Bengaluru                 | 1645 | 22.12.1957 | 22.12.2017 | 31.12.2017 |
| 13 | Mr. M.B. Somalingayya<br>Field Assistant<br>Veterinary College<br>Hebbal, Bengaluru           | 1420 | 01.01.1958 | 31.12.2017 | 31.12.2017 |
| 14 | Mr. Lakshmaiah<br>Senior Animal Attender<br>Veterinary College<br>Hebbal, Bengaluru           | 1438 | 12.01.1958 | 12.01.2018 | 31.01.2018 |
| 15 | Mr. P.K. Chikkanna<br>Senior Animal Attender<br>LRIC, Konehalli-Tipaturu                      | -    | 01.02.1958 | 31.01.2018 | 31.01.2018 |
| 16 | Mr. Ganraj Patil<br>Laboratory Assistant<br>Veterinary College, Bidar                         | -    | 15.02.1958 | 15.02.2018 | 28.02.2018 |

**List of Officers/Employs Retired in Institute of Animal Health & Veterinary Biologicals,  
Hebbal, Bengaluru**

|   |   |      |            |            |            |
|---|---|------|------------|------------|------------|
| 1 | Mr. Ibrahim Sheriff<br>Superintendent               | 1053 | 01.06.1957 | 31.05.2017 | 31.05.2017 |
| 2 | Mr. G. Nagendrarav Pawar<br>Junior Engineer         | 1116 | 22.07.1957 | 22.07.2017 | 31.07.2017 |
| 3 | Mr.N.R.Nanjundeguda<br>Junior Engineer              | 1119 | 12.08.1957 | 12.08.2017 | 31.08.2017 |
| 4 | Mr. Chhenneguda, K.N.<br>Operator                   | 1125 | 02.08.1957 | 02.08.2017 | 31.08.2017 |
| 5 | Mr. P.A. Shashidhar<br>Senior Laboratory Technician | 1024 | 02.02.1958 | 02.02.2018 | 28.02.2018 |
| 6 | Mr. S.M. Kadadi<br>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          |
|    | <b>Total</b>  | <b>1442.08</b> |