



# KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY

*Nandinagar, BIDAR - 585 226, Karnataka*

## 17<sup>th</sup> Annual Report

## 2021-22





**Publisher:**  
**Prof. K.C. Veeranna**  
**Vice-Chancellor**

**Editor:**  
**Dr. N.A. Patil**  
**Director of Extension**



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## Preface

The seventeenth annual report of the Karnataka Veterinary, Animal, and Fisheries Sciences University Bidar is a testimony to the institution's efforts to promote research and develop human resources to serve the farmers. The COVID19 pandemic in the country created challenges for education and extension activities, prompting to shift towards online platforms. The University is committed to serve farmers by disseminating technologies, extension activities in the field of Veterinary, Dairy and Fishery Sciences across the state in these challenging times.

The University has five Veterinary Colleges at Bengaluru, Bidar, Shivamogga, Hassan and Gadag, two Dairy Science Colleges at Bengaluru and Kalaburagi. College of Fisheries at Mangaluru has reached milestone of completing fifty years of service in strengthening fisheries education. The University offers under graduate, postgraduate, and doctoral degree programs in Veterinary and Animal Sciences, Fishery Sciences and Dairy Sciences. The University also offers a diploma in animal husbandry exclusive for rural youths of Karnataka at five Animal Husbandry Polytechnics across the state. Research institutes includes Institute of Animal Health and Veterinary Biologicals (IAH&VB), Bengaluru, Institute of Wildlife Veterinary Research, Kodagu, five Livestock and four Fisheries Research and Information Centers have been established across the state. During the academic year 2021-22, a total of 477 degree comprising of 331 undergraduate, 111 masters and 35 doctoral degrees were provisionally awarded in Veterinary, Dairy and Fisheries Sciences. The students excelled not only academically but also in other activities such as sports and NSS programs.

The University has become a center for research in veterinary, animal, and fisheries sciences. In the current year, 34 projects worth of Rs. 304.22 lakhs have been completed and 116 projects worth of Rs. 8289.00 lakhs are underway that are funded by the government and outside agencies. Many International virtual training programs were conducted during the period for SAARC Veterinarians and Nationals on various topics like 'Diagnosis of Rabies', 'Livestock Products and Food Safety Realities and Imperatives for Global Health'. The faculty and scientists of all the constituent institutions of the University located across the state are engaged actively in research and extension activities.

I express sincere thanks and gratitude to the Government of India, Government of Karnataka, Indian Council of Agricultural Research-New Delhi, DBT/DST/ RKVY and other funding agencies for assisting in the 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/-  
(K.C. Veeranna)  
Vice-Chancellor



Animal husbandry and fishery are vital components in Doubling Farmer's Income. Today, India is self-sufficient in its demand for food and occupies the seventh position globally when it comes to agriculture exports. However, to attain nutritional security for most people and achieve sustainable productivity, it is very essential that extension activities are strengthened.

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar is working to build human resources, capacity development with five Veterinary Colleges, two Dairy Science Colleges and one Fisheries College across the state. During the period of COVID-19 Pandemic, small farmers and youth were attracted towards Animal Husbandry enterprises / activities for their livelihood security. University made its prompt effort to provide best possible technical support and services to these needy farmers. Several research projects have been sanctioned to the University during the period. Excellent research works are being carried out in ongoing and new research projects. Research publications brought out by faculty members and students are included in this report. The Livestock Research and Information Centers, Extension Education Centers and Krishi Vigyana Kendra are actively engaged in dissemination of developed technologies and practices to the farming community of the state.

The university is offering diploma in animal husbandry in Kannada to 10th passed rural youths of the state to promote entrepreneurial activities related to animal husbandry. 'Diploma in Agricultural Extension Services to Agri-Input Dealers (DAESI)' programme in collaboration with SAMETI, UAS, Bengaluru and National Institute of Agricultural Extension Management, Hyderabad is also being offered at KVK, Dakshina Kannada to strengthen FPOs. Many International virtual training programs were conducted during the period for SAARC Veterinarians and Nationals on various topics like 'Diagnosis of Rabies', 'Livestock Products and Food Safety Realities and Imperatives for Global Health'. Various extension programs, outreach activities and capacity development programs like training programs, workshops, seminars, animal health camps, village adoption, radio talks, TV programs, field days, demonstrations, field visits, front line demonstrations, on-farm trials, and farmers-scientists interaction sessions across the state are included in this report.

I express my gratitude to all government and non-government agencies, administrators, policymakers, University officials, faculties and students for their contribution in building our university. All the major achievements and works carried out by the University during the period in the areas of education, research and extension have been documented in this report. It is hoped that data and information compiled in this report will be of immense use to administrators, researchers, policymakers, extension personnel, farmers and other stakeholders for devising policy, education, research, and development projects.

Place: Bidar

Sd/-  
(N.A. Patil)

Chief Editor & Director of Extension





## Mandate of the University

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

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

## Mission of the University

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

## Governance

### BOARD OF MANAGEMENT OF THE UNIVERSITY

**Chairman** : Vice-Chancellor, KVAFSU, Bidar

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

**Other Members:** Sri. B Shriharsha  
Smt. Kavita Umashankar Mishra  
Sri. Deepak Doddaiah  
Dr. Yathiraj, S.  
Dr. N.M. Dinesh  
Sri. Bhojanaik  
Sri. Vasanth Biradar  
Dr. K.P. Ramesha, NDRI, Bengaluru (ICAR Nominee)  
Dr. N.K. Sudeep Kumar, TANVASU, Chennai (VC Nominee)  
Dr. S.T. Viroji Rao, PVNRTVU, Hyderabad (VC Nominee)

# 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 Taluk & District
- 4) Animal Husbandry Polytechnic, Baragi, Gundlupet Taluk, Chamarajanagara District
- 5) Animal Husbandry Polytechnic, Dornahalli, 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), Doddaluvara, Dist. Coorg
- 3) Livestock Research and Information Center, (Deoni), Hallikhed, Bidar Taluk & District
- 4) Livestock Research and Information Center (Amruth Mahal and Hallikar), Konehalli, Tumkur
- 5) Livestock Research & Information Center (Sheep), Nagamangala
- 6) Livestock Research & Information Center (Buffalo), Dornahalli, Shahapur Tq, Yadgir Dist
- 7) Canine Research and Information Center Timmapur, Mudhol Taluk, Bagalkot District
- 8) Fisheries Research & Information Center (Inland), Hebbal, Bengaluru Urban Tq. & District.
- 9) Fisheries Research & Information Center (Inland), Hesaraghatta, Bengaluru North Taluk. Bengaluru Rural District
- 10) Fisheries Research and Information Centre (Marine), Ankola, Uttar Kannada District
- 11) Livestock Research & Information Center, Gollahalli, Mulabagilu Taluk, Kolar District
- 12) Fish Seed Production Farm, Shivapura, Koppal District (to be taken over / established)
- 13) Rural Veterinary Hospital, Yelahanka, Bengaluru
- 14) Veterinary Hospital, APMC, Bidar Taluk & District

## 4. Krishi Vigyan Kendra

- 1) Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru

## 5. Extension Education Centers/ Institutes

- 1) Extension Education Center, Bengaluru
- 2) Extension Education Center, Bidar
- 3) Extension Education Center, Shivamogga
- 4) Extension Education Center, Hassan

## Officers of the University during the period (2021-2022)

|    |   |   |
|----|---|---|
| 1  | Vice-Chancellor, KVAFSU, Bidar                | <b>Dr. H.D. Narayanaswamy</b><br><b>Dr. K.C. Veeranna</b>                                   |
| 2  | Registrar, KVAFSU, Bidar                      | <b>Dr. K.C. Veeranna</b><br><b>Dr. B.V. Shivaprakash</b>                                    |
| 3  | Director of Extension, KVAFSU, Bidar          | <b>Dr. N.A. Patil</b>   |
| 4  | Director of Research, KVAFSU, Bidar           | <b>Dr. B.V. Shivaprakash</b>  |
| 5  | Director of Instruction (PGS), KVAFSU, Bidar  | <b>Dr. M.K. Tandale</b>   |
| 6  | Controller of Examinations, KVAFSU, Bidar     | <b>Dr. Basawaraj Awati</b>  |
| 7  | Director of Student Welfare, KVAFSU, Bidar    | <b>Dr. Yashwanth Kumar</b><br><b>Dr. M.D. Suranagi</b>                                      |
| 8  | University Librarian, KVAFSU, Bidar           | <b>Dr. U.S. Jadhav</b>  |
| 9  | Dean, Veterinary College, Bidar               | <b>Dr. D. Dilipkumar</b>  |
| 10 | Dean, Veterinary College, Bengaluru           | <b>Dr. C.S.Nagaraja</b>   |
| 11 | Dean, Veterinary College, Shivamogga          | <b>Dr. N. Prakash</b>   |
| 12 | Dean, Veterinary College, Hassan              | <b>Dr. M.C. Shivakumar</b>  |
| 13 | Dean, Veterinary College, Gadag               | <b>Dr. R. Nagaraja</b>  |
| 14 | Dean, Dairy Science College, Bengaluru        | <b>Dr. H.M. Jayaprakasha</b><br><b>Dr. Sachindra Babu</b>                                   |
| 15 | Dean, Dairy Science College, Kalaburagi       | <b>Dr. H. Manjunatha</b>  |
| 16 | Dean, College of Fisheries, Mangaluru         | <b>Dr. Shivakumar Magada</b><br><b>Dr. H.N. Anjaneyappa</b><br><b>Dr. Shivakumar Magada</b> |
| 17 | Director, IAH&VB, Hebbal, Bengaluru           | <b>Dr. S.M. Byregowda</b>   |
| 18 | Director, IWVR, Doddaluvara, Kodagu           | <b>Dr. L. Ranganath</b>   |
| 19 | Head of Division-Pre & Para Clinical Sciences | <b>Dr. V. Girish Kumar</b><br><b>Dr. M. Narayanaswamy</b>                                   |
| 20 | Head of Division-Clinical Sciences            | <b>Dr. P.T. Ramesh</b>  |
| 21 | Head of Division-Animal and Poultry Sciences  | <b>Dr. C.S. Nagaraj</b><br><b>Dr. M.M. Appannavar</b>                                       |
| 22 | Head of Division-Fisheries Science            | <b>Dr. Shivakumar Magad</b><br><b>Dr. H.N. Anjaneyappa</b>                                  |
| 23 | Head of Division-Dairy Science                | <b>Dr. D.B. Puranik</b><br><b>Dr. H. Arunkumar</b>  |
| 24 | Comptroller, KVAFSU, Bidar                    | <b>Mr. Subhash Hosur</b>  |
| 25 | Estate Officer, KVAFSU, Bidar                 | <b>Er. Ramappa Korwar</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 seven 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 final stages of development to start academic programme. Further, five Animal Husbandry Polytechnics are functioning at Konehalli of Tumkur district, Kunnur of Haveri district, Koravangala of Hassan district, Bargi of Chamarajanagar district and Dornalli of Yadgir district.

The University offers Masters program in 18 disciplines and Doctoral program in 14 disciplines in Veterinary and Animal Sciences. In Dairy Science 04 Master's 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 65 students graduated Master's degree and 28 received Doctoral degrees. In Dairy science, 34 students graduated Master's degree and 03 students were awarded Doctoral degrees. In Fisheries

science, 14 and 04 students were awarded Master's degree and Doctoral degrees respectively.



Admission under various degree programmes to KVAFSU was undertaken during 2021-22 and the intake was 454 students for UG programmes. Among 454 under graduate students, admitted to various degree programmes 349 were for BVSc&AH degree at Bengaluru, Bidar, Shivamogga, Hassan and Gadag campuses and 55 for B.Tech (Dairy), Degree at Bengaluru and Kalaburagi and 50 for Bachelor in Fisheries Science Degree at Mangaluru. A total 240 students were admitted for Animal Husbandry Polytechnics at Konehalli, Kunnur, Bargi, Koravangala and Dornahalli respectively.

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 completed 34 Research Projects with the funding support from State Government, GoI, Dept. of Bio-technology, ICAR, private institutions and National and International organizations during 2021-22. Besides, 116 Ongoing Projects amounting to Rs. 8289.00 lakhs are in progress.

In order to cater to the needs of



farmers in rural areas, the University has been carrying out need based research in various institutes and also established Research & Information Centers across the state. Our scientists of the University have published 506 Research Papers in Journals and Conferences / Symposia / Seminars / Workshops 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 11 MoU's with National organizations during the period. 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 Bengaluru, Bidar, Shivamogga and Hassan Campuses for the transfer of technologies developed by KVAFSU scientists to the un-reached farming community. The University is propagating and popularizing its technologies to the farmers through series of training programmes, demonstrations, animal health camps, field days, farmer-scientists interaction, awareness programmes, treatment of medical, surgical and reproductive problems at Veterinary Colleges, Krishi melas, 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 27 Radio / TV programmes were given of which 20 were Radio talks and 07 were TV programmes. A total of 84 Animal Health Camps were conducted and 15463 animals were treated in the camp. A total of 128 demonstrations were conducted. A total of 1,69,367 services were provided to the farmers and diagnostic services provided were 1,45,288 and 20,491 consultancy / advisory services were provided. A total of 281 Training Programmes / Workshops / Conferences / Seminars / Symposia were conducted in 2021-22 and a total of 777 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Resource Scientists and 476 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Trainee Scientists.

The most significant part of the University is the health care service being extended to the ailing cattle of poor farmers by our doctors. Innumerable surgeries are performed on small and large animals by our doctors thereby saving the lives of animals that are the economic backbone of poor farmers, especially in Northern Karnataka.



## IMPORTANT MEETINGS HELD BY KVAFSU, BIDAR DURING 2021-22

| #  | <i>Meetings</i>  | <i>Date</i> | <i>Place</i> |
|--|--|-------------|--------------|
| <b>Meetings of Board of Management</b>       |  |             |              |
| 1  | 97 <sup>th</sup> Board of Management Meeting           | 09.04.2021  | Bengaluru    |
| 2  | 98 <sup>th</sup> Board of Management Meeting           | 23.07.2021  | Shivamogga   |
| 3  | 99 <sup>th</sup> Board of Management Meeting           | 08.10.2021  | Bengaluru    |
| 4  | 100 <sup>th</sup> Board of Management Meeting          | 03.12.2021  | Bidar        |
| 5  | 101 <sup>st</sup> Board of Management Meeting          | 19.02.2022  | Bengaluru    |
| <b>Academic Council Meetings</b>             |  |             |              |
| 1  | 35 <sup>th</sup> Academic Council Meeting              | 06.08.2021  | Bengaluru    |
| <b>Finance Committee Meetings</b>            |  |             |              |
| 1  | 44 <sup>th</sup> Finance Committee Meeting             | 06.04.2021  | Bidar        |
| 2  | 45 <sup>th</sup> Finance Committee Meeting             | 22.07.2021  | Shivamogga   |
| 3  | 46 <sup>th</sup> Finance Committee Meeting             | 02.12.2021  | Bidar        |
| 4  | 47 <sup>th</sup> Finance Committee Meeting             | 17.12.2021  | Bengaluru    |
| 5  | 48 <sup>th</sup> Finance Committee Meeting             | 18.02.2022  | Bengaluru    |
| <b>Extension Education Council Meetings</b>  |  |             |              |
| 1  | 16 <sup>th</sup> Extension Education Council's Meeting | 22.12.2021  | Bidar        |
| <b>Research Council Meetings</b>             |  |             |              |
| 1  | 16 <sup>th</sup> Research Council's Meeting            | 22.12.2021  | Bidar        |
| <b>Planning and Works Committee Meetings</b> |  |             |              |
| 1  | 28 <sup>th</sup> Planning and Works Committee Meeting  | 07.10.2021  | Bengaluru    |

## Important Meetings / Events attended by the Vice-Chancellor, KVAFSU, Bidar during 2021-22

| #  | Date       | Meetings / Events Attended  |
|----|------------|---|
| 1  | 09.04.2021 | Chaired 97 <sup>th</sup> Board of Management Meeting at Bengaluru   |
| 2  | 23.07.2021 | Chaired 98 <sup>th</sup> Board of Management Meeting at Shivamogga  |
| 3  | 23.08.2021 | Attended meeting under the Chairmanship of Additional Chief Secretary to Government and Development Commissioner, GoK at Bengaluru                                      |
| 4  | 04.09.2021 | Met Hon'ble Minister for Animal Husbandry, GoK regarding University developmental works at Bengaluru  |
| 5  | 06.09.2021 | Attended meeting under the chairmanship of Additional Chief Secretary to Government and Development commissioner regarding University developmental issues at Bengaluru |
| 6  | 15.09.2021 | Attended Planning and Works Committee Meeting along with Members of Board of Management, KVAFSU, Bidar at Athani  |
| 7  | 16.09.2021 | Attended Planning and Works Committee Meeting along with Members of Board of Management, KVAFSU, Bidar at Athani  |
| 8  | 07.10.2021 | Attended Planning and Works Committee Meeting and along with Members of Board of Management, KVAFSU, Bidar at Veterinary College, Hebbal, Bengaluru                     |
| 9  | 08.10.2021 | Chaired 99 <sup>th</sup> Board of Management Meeting at Regional Office, Hebbal, Bengaluru  |
| 10 | 25.10.2021 | Chaired Annual Technical Meeting at Veterinary College, Hebbal, Bengaluru   |
| 11 | 30.10.2021 | Attended Annual Technical Meet at College of Fisheries, Mangaluru   |
| 12 | 01.11.2021 | Attended Karnataka Rajyotsva Program at Veterinary College, Bengaluru   |
| 13 | 26.01.2022 | Flag hoisted on the occasion Republic Day-2022 at Veterinary College, Bengaluru   |
| 14 | 28.01.2022 | Attended Selection Committee Meeting at Chennai   |
| 15 | 18.02.2022 | Chaired KVAFSU Finance Committee Meeting at Regional Office, Hebbal, Bengaluru  |
| 16 | 19.02.2022 | Chaired 101 <sup>st</sup> Board of Management Meeting at Regional Office, Hebbal, Bengaluru   |
| 17 | 05.03.2022 | Attended the meeting with University Grant Commission Team in connection with UGC Accreditation of the University at Hebbal, Bengaluru                                  |



## I. TEACHING

### 1) Teaching Institutions

| #  | Teaching Institute with Location                      | Year of Establishment | Name of the Dean / Director / Principal | Degree Programmes Offered   |
|----|---|-----------------------|---|---|
| 1  | Veterinary College, Bengaluru                         | 1958                  | Dr. C.S. Nagaraja                       | B.V.Sc.&A.H.<br>M.V.Sc.<br>Ph.D.  |
| 2  | Veterinary College, Bidar                             | 1984                  | Dr. Dilip Kumar, D.                     | B.V.Sc.&A.H.<br>M.V.Sc.<br>Ph.D.  |
| 3  | Veterinary College, Shivamogga                        | 2006                  | Dr. Prakash, N.                         | B.V.Sc.&A.H.<br>M.V.Sc.   |
| 4  | Veterinary College, Hassan                            | 2007                  | Dr. V. Girish Kumar                     | B.V.Sc.&A.H.<br>M.V.Sc.   |
| 5  | Veterinary College, Gadag                             | 2017                  | Dr. R. Nagaraja                         | B.V.Sc.&A.H.  |
| 6  | Dairy Science College, Bengaluru                      | 1980                  | Dr. A. Sachindra Babu                   | B.Tech. (D.Tech)<br>M.Tech. (Dairy Science)<br>Ph.D. (Dairy Science)<br>MBA (Food and Dairy Business) |
| 7  | Dairy Science College, Kalaburagi                     | 2008                  | Dr. Manjunatha, H.                      | B.Tech. (D.Tech)  |
| 8  | College of Fisheries, Mangaluru                       | 1969                  | Dr. Shivakumar Magada                   | B.F.Sc.<br>M.F.Sc.<br>Ph.D.   |
| 9  | Institute of Wildlife and Veterinary Research, Kodagu | 2007                  | Dr. L. Ranganath                        | M.V.Sc. (Wildlife)<br>(Presently running at Bengaluru)  |
| 10 | Animal Husbandry Polytechnic, Konehalli-Tumakuru      | 2011                  | Dr. Umashankar, B.C.                    | Animal Husbandry Diploma  |
| 11 | Animal Husbandry Polytechnic, Kunnur-Haveri           | 2012                  | Dr. Shambulingappa, Y. Baddi            | Animal Husbandry Diploma  |
| 12 | Animal Husbandry Polytechnic, Koravangala-Hassan      | 2017                  | Dr. Guruprasad, R.                      | Animal Husbandry Diploma  |
| 13 | Animal Husbandry Polytechnic, Bargi-Chamarajanagar    | 2017                  | Dr. Ravikumar, C.                       | Animal Husbandry Diploma  |
| 14 | Animal Husbandry Polytechnic, Dornhalli-Yadgir        | 2017                  | Dr. Channappagouda Biradar              | Animal Husbandry Diploma  |

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

| Sl. No. | Degree Programme         | Year |    |     |    |    | No. Passed out | College / Institute                                |
|---------|--------------------------|------|----|-----|----|----|----------------|--|
|         |                          | I    | II | III | IV | V  |                |  |
| 1       | B.V.Sc.&A.H.             | 79   | 69 | 80  | 67 | 71 | <b>62</b>      | Veterinary College, Bengaluru                      |
| 2       | B.V.Sc.&A.H.             | 62   | 56 | 51  | 60 | 53 | <b>47</b>      | Veterinary College, Bidar                          |
| 3       | B.V.Sc.&A.H.             | 80   | 77 | 81  | 68 | 72 | <b>57</b>      | Veterinary College, Shivamogga                     |
| 4       | B.V.Sc.&A.H.             | 78   | 69 | 67  | 75 | 57 | <b>66</b>      | Veterinary College, Hassan                         |
| 5       | B.V.Sc.&A.H.             | 50   | 50 | 50  | 47 | 45 | -              | Veterinary College, Gadag                          |
| 6       | B.Tech. (D.Tech)         | 43   | 42 | 41  | 41 | NA | <b>37</b>      | Dairy Science College, Bengaluru                   |
| 7       | B.Tech. (D.Tech)         | 12   | 23 | 22  | 24 | NA | <b>23</b>      | Dairy Science College, Kalaburagi                  |
| 8       | B.F.Sc.                  | 50   | 46 | 40  | 45 | NA | <b>39</b>      | College of Fisheries, Mangaluru                    |
| 9       | Animal Husbandry Diploma | 49   | 48 | NA  | NA | NA | <b>36</b>      | Animal Husbandry Polytechnic, Konehalli-Tumakuru   |
| 10      | Animal Husbandry Diploma | 46   | 39 | NA  | NA | NA | <b>38</b>      | Animal Husbandry Polytechnic, Kunnur-Haveri        |
| 11      | Animal Husbandry Diploma | 47   | 42 | NA  | NA | NA | <b>39</b>      | Animal Husbandry Polytechnic, Koravangala-Hassan   |
| 12      | Animal Husbandry Diploma | 48   | 49 | NA  | NA | NA | <b>11</b>      | Animal Husbandry Polytechnic, Bargi-Chamarajanagar |
| 13      | Animal Husbandry Diploma | 50   | 43 | NA  | NA | NA | <b>36</b>      | Animal Husbandry Polytechnic, Dornalli-Yadgir      |

*\*NA:- Not Applicable*

### 3) Number of Students admitted to postgraduate degree and Ph.D. programmes

| #                                    | Department                                 | Master's degree |           |           | Ph.D.    |           |           |           |
|--------------------------------------|--|-----------------|-----------|-----------|----------|-----------|-----------|-----------|
|                                      |  | On roll         |           | Completed | On roll  |           |           | Completed |
|                                      |  | I               | II        | 2021-22   | I        | II        | III       | 2021-22   |
| <b>VETERINARY COLLEGE, BENGALURU</b> |  |                 |           |           |          |           |           |           |
| 1                                    | Animal Genetics and Breeding               | -               | 3         | 2         | -        | -         | 1         | 1         |
| 2                                    | Animal Nutrition                           | -               | 4         | 3         | -        | 1         | -         | 1         |
| 3                                    | Livestock Production and Management        | -               | 2         | 2         | -        | -         | -         | 1         |
| 4                                    | Livestock Products and Technology          | -               | 5         | 3         | -        | -         | -         | -         |
| 5                                    | Poultry Science                            | -               | 6         | 4         | -        | -         | -         | 3         |
| 6                                    | Vet erinary and Animal Husbandry Extension | -               | 2         | -         | -        | -         | -         | -         |
| 7                                    | Vet erinary Anatomy and Histology          | -               | -         | -         | -        | -         | 2         | 1         |
| 8                                    | Vet erinary Biochemistry                   | -               | -         | 1         | -        | -         | 1         | 1         |
| 9                                    | Vet erinary Gynecology and Obstetrics      | -               | 8         | 5         | -        | -         | -         | 3         |
| 10                                   | Vet erinary Medicine                       | -               | 5         | 8         | -        | 4         | -         | 5         |
| 11                                   | Vet erinary Microbiology                   | -               | 4         | 2         | -        | 3         | 3         | 2         |
| 12                                   | Vet erinary Parasitology                   | -               | 4         | -         | -        | -         | -         | 3         |
| 13                                   | Vet erinary Pathology                      | -               | 2         | 3         | -        | -         | 2         | 2         |
| 14                                   | Vet erinary Pharmacology and Toxicology    | -               | 4         | 4         | -        | -         | 1         | -         |
| 15                                   | Vet erinary Physiology                     | -               | 3         | -         | -        | -         | -         | 2         |
| 16                                   | Vet erinary Surgery and Radiology          | -               | 8         | 10        | -        | 1         | -         | 3         |
| 17                                   | Vet erinary Wildlife                       | -               | -         | -         | -        | -         | -         | -         |
| <b>Total (A)</b>                     |  | -               | <b>60</b> | <b>47</b> | -        | <b>10</b> | <b>10</b> | <b>28</b> |
| <b>VETERINARY COLLEGE, BIDAR</b>     |  |                 |           |           |          |           |           |           |
| 1                                    | Livestock Production and Management        | 2               | 6         | -         | -        | -         | -         | -         |
| 2                                    | Vety Animal Husbandry and Extension        | 2               | -         | -         | -        | -         | -         | -         |
| 3                                    | Veterinary Gynaecology and Obstetrics      | 6               | 5         | 1         | 1        | 1         | -         | -         |
| 4                                    | Veterinary Medicine                        | 5               | 7         | 2         | -        | 1         | -         | -         |
| 5                                    | Veterinary Microbiology                    | 2               | -         | -         | -        | -         | 2         | -         |
| 6                                    | Veterinary Physiology                      | 3               | 4         | 1         | -        | -         | -         | -         |
| 7                                    | Veterinary Pathology                       | 1               | -         | -         | -        | -         | -         | -         |
| 8                                    | Veterinary Surgery and Radiology           | 6               | 6         | 3         | 2        | 3         | -         | -         |
| 9                                    | Animal Nutrition                           | -               | -         | -         | -        | -         | 1         | -         |
| <b>Total (B)</b>                     |  | <b>27</b>       | <b>28</b> | <b>7</b>  | <b>3</b> | <b>5</b>  | <b>3</b>  | <b>-</b>  |

| <b>VETERINARY COLLEGE, SHIVAMOGGA</b>   |   |           |            |            |          |           |           |           |
|---|---|-----------|------------|------------|----------|-----------|-----------|-----------|
| 1                                       | Veterinary Anatomy                                  | -         | 1          | -          | -        | -         | -         | -         |
| 2                                       | Veterinary Physiology and Biochemistry              | -         | 1          | -          | -        | -         | -         | -         |
| 3                                       | Veterinary Pharmacology and Toxicology              | -         | 2          | -          | -        | -         | -         | -         |
| 4                                       | Veterinary Microbiology                             | -         | 1          | -          | -        | -         | -         | -         |
| 5                                       | Veterinary Pathology                                | -         | 4          | -          | -        | -         | -         | -         |
| 6                                       | Veterinary Public Health and Epidemiology           | -         | 2          | -          | -        | -         | -         | -         |
| 7                                       | Animal Nutrition                                    | -         | 4          | -          | -        | -         | -         | -         |
| 8                                       | Veterinary Medicine                                 | -         | 2          | -          | -        | -         | -         | -         |
| 9                                       | Veterinary and Animal Husbandry Extension Education | -         | 4          | -          | -        | -         | -         | -         |
| <b>Total (C)</b>                        |   | -         | <b>21</b>  | -          | -        | -         | -         | -         |
| <b>VETERINARY COLLEGE, HASSAN</b>       |   |           |            |            |          |           |           |           |
| 1                                       | Veterinary Surgery and Radiology                    | -         | 5          | -          | -        | -         | -         | -         |
| 2                                       | Animal Nutrition                                    | -         | 2          | 2          | -        | -         | -         | -         |
| 3                                       | Veterinary Pathology                                | -         | 3          | 4          | -        | -         | -         | -         |
| 4                                       | Livestock production and Management                 | -         | 4          | 4          | -        | -         | -         | -         |
| 5                                       | Animal Genetics and Breeding                        | -         | 1          | 1          | -        | -         | -         | -         |
| <b>Total (D)</b>                        |   | -         | <b>15</b>  | <b>11</b>  | -        | -         | -         | -         |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b> |   |           |            |            |          |           |           |           |
| 1                                       | Dairy Technology                                    | -         | 4          | 10         | -        | -         | 1         | 1         |
| 2                                       | Dairy Chemistry                                     | -         | -          | 4          | -        | -         | 1         | -         |
| 3                                       | Dairy Microbiology                                  | -         | 1          | 5          | -        | -         | 1         | 2         |
| 4                                       | Dairy Engineering                                   | -         | 2          | -          | -        | -         | -         | -         |
| 5                                       | MBA (Food Business)                                 | 24        | 6          | 13         | -        | -         | -         | -         |
| <b>Total (E)</b>                        |   | <b>24</b> | <b>13</b>  | <b>32</b>  | -        | -         | <b>3</b>  | <b>3</b>  |
| <b>COLLEGE OF FISHERIES, MANGALURU</b>  |   |           |            |            |          |           |           |           |
| 1                                       | Aquaculture   | -         | 1          | 1          | -        | -         | -         | 1         |
| 2                                       | Aquatic Animal Health Management                    | -         | 2          | 4          | -        | 1         | 1         | 1         |
| 3                                       | Aquatic Environment Management                      | -         | 6          | 1          | -        | 1         | 1         | -         |
| 4                                       | Fish Processing Technology                          | -         | 2          | 3          | -        | -         | 3         | 1         |
| 5                                       | Fisheries Engineering and Technology                | -         | 3          | 1          | -        | -         | -         | -         |
| 6                                       | Fisheries Resources and Management                  | -         | 5          | 4          | -        | 1         | 3         | 1         |
| <b>Total (F)</b>                        |   | -         | <b>19</b>  | <b>14</b>  | -        | <b>3</b>  | <b>8</b>  | <b>4</b>  |
| <b>Grand Total</b>                      |   | <b>51</b> | <b>156</b> | <b>111</b> | <b>3</b> | <b>18</b> | <b>24</b> | <b>35</b> |

#### 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  | 1    | 5  | 5   | 4  | - | 15    |
| 2                                   | Veterinary College, Bidar      | -    | -  | -   | 2  | - | 2     |
| 3                                   | Veterinary College, Shivamogga | 1    | -  | -   | -  | - | 1     |
| 4                                   | Veterinary College, Hassan     | 5    | 5  | 5   | 5  | 5 | 25    |
| 5                                   | Veterinary College, Gadag      | 6    | -  | -   | 1  | - | 7     |
| <b>Merit Scholarship</b>            |                                |      |    |     |    |   |       |
| 1                                   | Veterinary College, Bengaluru  | 2    | 2  | 2   | 2  | - | 8     |
| 2                                   | Veterinary College, Bidar      | 1    | 2  | 2   | 2  | 1 | 8     |
| 3                                   | Veterinary College, Shivamogga | 2    | 2  | 2   | 2  | - | 8     |
| 4                                   | Veterinary College, Hassan     | 2    | 2  | 2   | 2  | 2 | 10    |
| 5                                   | Veterinary College, Gadag      | 2    | -  | 2   | 2  | - | 6     |
| <b>National Talent Scholarship</b>  |                                |      |    |     |    |   |       |
| 1                                   | Veterinary College, Bengaluru  | 7    | 9  | 2   | 4  | 3 | 25    |
| 2                                   | Veterinary College, Bidar      | 8    | 2  | 6   | 5  | - | 21    |
| 3                                   | Veterinary College, Shivamogga | 9    | 8  | -   | 1  | - | 18    |
| 4                                   | Veterinary College, Hassan     | -    | -  | -   | -  | - | -     |
| 5                                   | Veterinary College, Gadag      | -    | -  | -   | -  | - | -     |
| <b>Student Aid Fund</b>             |                                |      |    |     |    |   |       |
| 1                                   | Veterinary College, Bengaluru  | -    | 9  | 6   | 14 | - | 29    |
| 2                                   | Veterinary College, Bidar      | -    | -  | -   | 1  | - | 1     |
| 3                                   | Veterinary College, Shivamogga | -    | -  | -   | -  | - | -     |
| 4                                   | Veterinary College, Hassan     | -    | -  | -   | -  | - | -     |
| 5                                   | Veterinary College, Gadag      | -    | -  | -   | -  | - | -     |
| <b>SC/ST GoI Scholarship</b>        |                                |      |    |     |    |   |       |
| 1                                   | Veterinary College, Bengaluru  | -    | -  | -   | -  | - | -     |
| 2                                   | Veterinary College, Bidar      | 9    | 8  | 10  | 8  | 7 | 42    |
| 3                                   | Veterinary College, Shivamogga | 6    | 6  | 8   | 4  | - | 24    |
| 4                                   | Veterinary College, Hassan     | -    | -  | -   | -  | - | -     |
| 5                                   | Veterinary College, Gadag      | 5    | 6  | 7   | 6  | - | 24    |
| <b>Minority Welfare Scholarship</b> |                                |      |    |     |    |   |       |
| 1                                   | Veterinary College, Bengaluru  | -    | -  | -   | -  | - | -     |
| 2                                   | Veterinary College, Bidar      | -    | -  | -   | -  | - | -     |
| 3                                   | Veterinary College, Shivamogga | -    | -  | -   | -  | - | -     |
| 4                                   | Veterinary College, Hassan     | -    | -  | -   | -  | - | -     |
| 5                                   | Veterinary College, Gadag      | 1    | -  | -   | 1  | - | 2     |
| <b>Handicaps Scholarship</b>        |                                |      |    |     |    |   |       |
| 1                                   | Veterinary College, Bengaluru  | -    | -  | -   | -  | - | -     |
| 2                                   | Veterinary College, Bidar      | -    | -  | -   | -  | - | -     |
| 3                                   | Veterinary College, Shivamogga | -    | -  | -   | -  | - | -     |
| 4                                   | Veterinary College, Hassan     | 1    | 2  | -   | 2  | - | 5     |
| 5                                   | Veterinary College, Gadag      | -    | -  | -   | -  | - | -     |

| <b>BCM Scholarship</b>      |                                |            |            |            |            |           |            |
|-----------------------------|--------------------------------|------------|------------|------------|------------|-----------|------------|
| 1                           | Veterinary College, Bengaluru  | -          | -          | -          | -          | -         | -          |
| 2                           | Veterinary College, Bidar      | -          | -          | -          | -          | -         | -          |
| 3                           | Veterinary College, Shivamogga | -          | -          | -          | -          | -         | -          |
| 4                           | Veterinary College, Hassan     | 32         | 33         | 37         | 28         | -         | <b>130</b> |
| 5                           | Veterinary College, Gadag      | 17         | 26         | 24         | 24         | -         | <b>91</b>  |
| <b>GoI Scholarship</b>      |                                |            |            |            |            |           |            |
| 1                           | Veterinary College, Bengaluru  | -          | -          | -          | -          | -         | -          |
| 2                           | Veterinary College, Bidar      | -          | -          | -          | -          | -         | -          |
| 3                           | Veterinary College, Shivamogga | -          | -          | -          | -          | -         | -          |
| 4                           | Veterinary College, Hassan     | 9          | 7          | 14         | 9          | -         | <b>39</b>  |
| 5                           | Veterinary College, Gadag      | -          | -          | -          | -          | -         | -          |
| <b>Teachers Scholarship</b> |                                |            |            |            |            |           |            |
| 1                           | Veterinary College, Bengaluru  | -          | -          | -          | -          | -         | -          |
| 2                           | Veterinary College, Bidar      | -          | -          | -          | -          | -         | -          |
| 3                           | Veterinary College, Shivamogga | -          | -          | -          | -          | -         | -          |
| 4                           | Veterinary College, Hassan     | 3          | 5          | 4          | 6          | -         | <b>18</b>  |
| 5                           | Veterinary College, Gadag      | -          | -          | -          | -          | -         | -          |
| <b>Total</b>                |                                | <b>129</b> | <b>139</b> | <b>138</b> | <b>135</b> | <b>18</b> | <b>559</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 | -        | 3         | 3         | 3         | <b>9</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         | <b>6</b>  |
| <b>Student Aid Fund</b>    |                                   |          |           |           |           |           |
| 1                          | Dairy Science College, Bengaluru  | -        | -         | -         | -         | -         |
| 2                          | Dairy Science College, Kalaburagi | -        | 2         | 2         | 2         | <b>6</b>  |
| <b>Fee Concession</b>      |                                   |          |           |           |           |           |
| 1                          | Dairy Science College, Bengaluru  | -        | -         | -         | -         | -         |
| 2                          | Dairy Science College, Kalaburagi | -        | 2         | 2         | 2         | <b>6</b>  |
| <b>Total</b>               |                                   | <b>7</b> | <b>16</b> | <b>16</b> | <b>16</b> | <b>55</b> |

#### FISHERY SCIENCE (COLLEGE OF FISHERIES, MANGALURU)

| #            | Scholarship / Fellowship | B.F.Sc.   |           |           |            | Total      |
|--------------|--------------------------|-----------|-----------|-----------|------------|------------|
|              |                          | I         | II        | III       | IV         |            |
| 1            | Merit Scholarship        | 2         | 2         | 2         | 2          | <b>8</b>   |
| 2            | BCM Scholarship          | 20        | 16        | 30        | 16         | <b>82</b>  |
| 3            | NTS-ICAR                 | 1         | 4         |           | 4          | <b>9</b>   |
| 4            | EBL – GoI Scholarship    | 14        | 5         | 8         | 7          | <b>34</b>  |
| 5            | Internship – ICAR        | -         | -         | -         | 44         | <b>44</b>  |
| 6            | Implant Training         | -         | -         | -         | 44         | <b>44</b>  |
| 7            | Minority Scholarship     | 2         | 3         | 1         | -          | <b>6</b>   |
| 8            | MHRD Scholarship         | -         | -         | -         | 1          | <b>1</b>   |
| <b>Total</b> |                          | <b>39</b> | <b>30</b> | <b>41</b> | <b>118</b> | <b>228</b> |

## ABSTRACT OF UNDERGRADUATE SCHOLARSHIP

| #            | Scholarship                  | VCH       | VCB       | VCS       | HVC        | VCG        | DSCH      | DSCK      | FCM        | Total      |
|--------------|------------------------------|-----------|-----------|-----------|------------|------------|-----------|-----------|------------|------------|
| 1            | General Scholarship          | 15        | 2         | 1         | 25         | 7          | 20        | 9         | -          | 79         |
| 2            | Merit Scholarship            | 8         | 8         | 8         | 10         | 6          | 8         | 6         | 8          | 62         |
| 3            | National Talent Scholarship  | 25        | 21        | 18        | -          | -          | -         | -         | 9          | 73         |
| 4            | Student Aid Fund             | 29        | 1         | -         | -          | -          | -         | 6         | -          | 36         |
| 5            | SC/ST GoI Scholarship        | -         | 42        | 24        | -          | 24         | -         | -         | -          | 90         |
| 6            | Minority Welfare Scholarship | -         | -         | -         | -          | 2          | -         | -         | 6          | 8          |
| 7            | Handicaps Scholarship        | -         | -         | -         | 5          | -          | -         | -         | -          | 5          |
| 8            | BCM Scholarship              | -         | -         | -         | 130        | 91         | -         | -         | 82         | 303        |
| 9            | GoI Scholarship              | -         | -         | -         | 39         | -          | -         | -         | -          | 39         |
| 10           | Teachers Scholarship         | -         | -         | -         | 18         | -          | -         | -         | -          | 18         |
| 11           | Fee Concession               | -         | -         | -         | -          | -          | -         | 6         | -          | 6          |
| 12           | EBL – GoI Scholarship        | -         | -         | -         | -          | -          | -         | -         | 34         | 34         |
| 13           | Internship – ICAR            | -         | -         | -         | -          | -          | -         | -         | 44         | 44         |
| 14           | Implant Training             | -         | -         | -         | -          | -          | -         | -         | 44         | 44         |
| 15           | MHRD Scholarship             | -         | -         | -         | -          | -          | -         | -         | 1          | 1          |
| <b>Total</b> |                              | <b>77</b> | <b>74</b> | <b>51</b> | <b>227</b> | <b>130</b> | <b>28</b> | <b>27</b> | <b>228</b> | <b>842</b> |

## POSTGRADUATE

### ANIMAL AND VETERINARY SCIENCES

| #  | Scholarship                    | MVSc.     |           | Ph.D     |          |          | Total     |
|--|--------------------------------|-----------|-----------|----------|----------|----------|-----------|
|  |                                | I         | II        | I        | II       | III      |           |
| <b>General Scholarship</b>                   |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2  | Veterinary College, Bidar      | 1         | -         | -        | -        | -        | 1         |
| 3  | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4  | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Merit Scholarship</b>                     |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2  | Veterinary College, Bidar      | 1         | 5         | -        | -        | -        | 6         |
| 3  | Veterinary College, Shivamogga | 4         | 2         | -        | -        | -        | 6         |
| 4  | Veterinary College, Hassan     | -         | 5         | -        | -        | -        | 5         |
| <b>Student Aid Fund</b>                      |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | 2         | 3         | -        | -        | -        | 5         |
| 2  | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3  | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4  | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Government of India Scholarship</b>       |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2  | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3  | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4  | Veterinary College, Hassan     | -         | 1         | -        | -        | -        | 1         |
| <b>National Talent Scholarship</b>           |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | 7         | -        | -        | -        | 7         |
| 2  | Veterinary College, Bidar      | 2         | 2         | -        | -        | -        | 4         |
| 3  | Veterinary College, Shivamogga | 2         | 1         | -        | -        | -        | 3         |
| 4  | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>SC/ST Govt. of India Scholarship</b>      |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2  | Veterinary College, Bidar      | 6         | 5         | -        | -        | -        | 11        |
| 3  | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4  | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>BCM Scholarship</b>                       |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | -         | -        | -        | -        | -         |
| 2  | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3  | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4  | Veterinary College, Hassan     | -         | 5         | -        | -        | -        | 5         |
| <b>University Resident Merit Scholarship</b> |                                |           |           |          |          |          |           |
| 1  | Veterinary College, Bengaluru  | -         | 12        | -        | 3        | 1        | 16        |
| 2  | Veterinary College, Bidar      | -         | -         | -        | -        | -        | -         |
| 3  | Veterinary College, Shivamogga | -         | -         | -        | -        | -        | -         |
| 4  | Veterinary College, Hassan     | -         | -         | -        | -        | -        | -         |
| <b>Total</b>                                 |                                | <b>18</b> | <b>48</b> | <b>-</b> | <b>3</b> | <b>1</b> | <b>70</b> |



## DAIRY SCIENCE

| #                                       | Scholarship       | M.Tech.  |          | Ph.D     |          |          | Total    |
|---|-------------------|----------|----------|----------|----------|----------|----------|
|   |                   | I        | II       | I        | II       | III      |          |
| <b>Dairy Science College, Bengaluru</b> |                   |          |          |          |          |          |          |
| 1                                       | Merit Scholarship | 3        | 2        | -        | 1        | -        | 6        |
| <b>Total</b>                            |                   | <b>3</b> | <b>2</b> | <b>-</b> | <b>1</b> | <b>-</b> | <b>6</b> |

## FISHERY SCIENCE

| #            | Scholarship / Fellowship | M.F.Sc.  |          | Ph.D.    |          |          | Total     |
|--------------|--------------------------|----------|----------|----------|----------|----------|-----------|
|              |                          | I        | II       | I        | II       | III      |           |
| 1            | Merit Scholarship        | 1        | -        | -        | 1        | -        | 2         |
| 2            | EBL – GoI Scholarship    | 1        | 2        | -        | 1        | 3        | 7         |
| 3            | BCM Scholarship          | -        | -        | -        | -        | -        | -         |
| 4            | NTS - ICAR               | 2        | 1        | -        | 1        | -        | 4         |
| 5            | Other State Scholarship  | -        | 3        | -        | 2        | -        | 5         |
| <b>Total</b> |                          | <b>4</b> | <b>6</b> | <b>-</b> | <b>5</b> | <b>3</b> | <b>18</b> |

## ABSTRACT OF POSTGRADUATE (MASTERS & DOCTORAL) SCHOLARSHIP

| #            | Scholarship                           | VCH       | VCB       | VCS      | HVC       | DSCH     | FCM       | Total     |
|--------------|---------------------------------------|-----------|-----------|----------|-----------|----------|-----------|-----------|
| 1            | General Scholarship                   | -         | 1         | -        | -         | -        | -         | 1         |
| 2            | Merit Scholarship                     | -         | 6         | 6        | 5         | 6        | 2         | 25        |
| 3            | Student Aid Fund                      | 5         | -         | -        | -         | -        | -         | 5         |
| 4            | Government of India Scholarship       | -         | -         | -        | 1         | -        | -         | 1         |
| 5            | National Talent Scholarship           | 7         | 4         | 3        | -         | -        | 4         | 18        |
| 6            | SC/ST Govt. of India Scholarship      | -         | 11        | -        | -         | -        | -         | 11        |
| 7            | BCM Scholarship                       | -         | -         | -        | 5         | -        | -         | 5         |
| 8            | University Resident Merit Scholarship | 16        | -         | -        | -         | -        | -         | 16        |
| 9            | EBL – GoI Scholarship                 | -         | -         | -        | -         | -        | 7         | 7         |
| 10           | Other State Scholarship               | -         | -         | -        | -         | -        | 5         | 5         |
| <b>Total</b> |                                       | <b>28</b> | <b>22</b> | <b>9</b> | <b>11</b> | <b>6</b> | <b>18</b> | <b>94</b> |

## 5) Academic Research (Postgraduate Research)

Thesis accepted during the year 2021-22 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                                    | Evaluation of Ameliorative Potential of Nanocurcumin on Arsenic Induced Perturbations in Redox Homeostasis and Neuro-Pharmacological Activities in Wistar Rats | Nithyashree, N.        | N. Prakash<br>Veterinary Pharmacology and Toxicology             |
| 2                                    | Studies on Effect of Telmisartan on Vascular Redox Homeostasis in Wistar Rats Exposed to Arsenic   | Rudresh Gowda          | N. Prakash<br>Veterinary Pharmacology and Toxicology             |
| 3                                    | Pharmacological Induction of Lactation in Unproductive Cattle  | Santoshkumar Tattimani | Jagadeesh, S. Sanganal<br>Veterinary Pharmacology and Toxicology |
| 4                                    | Evaluation of the Pan-Lyssa Virus by Ln34 Real Time PCR Assay for Detection of Rabies Virus and other Lyssa Viruses in Animals                                 | Samrudh, M.C.          | Shrikrishna Isloor<br>Veterinary Microbiology                    |
| 5                                    | Studies on Antimicrobial Resistance, Virulence and Biofilm Formation in <i>Escherichia Coli</i> from Poultry   | Sachinkumar Badadal    | Sharada, R.<br>Veterinary Microbiology                           |
| 6                                    | Isolation and Characterization of <i>Campylobacter</i> in Poultry  | Sahitya, N.G.          | D. Rathnamma<br>Veterinary Microbiology                          |
| 7                                    | Pathomorphological and Molecular Studies on Spontaneous sheep Pox Disease in Karnataka   | Varun Kumar, K.        | M.L. Satyanarayana<br>Veterinary Pathology                       |
| 8                                    | Pathomorphological and Molecular Studies on Spontaneous Goat Pox Disease in Karnataka  | Chandan, D.S.          | Suguna Rao<br>Veterinary Pathology                               |
| 9                                    | Pathomorphological and Biochemical Evaluation of Cyclophosphamide Induced Toxicity and it's Amelioration by <i>Tinospora Cordifolia</i> in Rats                | Harish, P.             | Suguna Rao<br>Veterinary Pathology                               |
| 10                                   | Studies on Therapeutic Efficacy of Certain Non-Antibiotic Protocols for Endometritis in Crossbred Dairy Cows   | Arunkumar, K.          | Sahadev, A.<br>Veterinary Gynaecology and Obstetrics             |
| 11                                   | Study on <i>In Vitro</i> and <i>In Vivo</i> Fertility Evaluation of Cryopreserved Osmanabadi Buck Semen  | Vishalakshi Koli       | B.M. Ravindranath<br>Veterinary Pathology                        |
| 12                                   | Study on <i>In Vitro</i> and <i>In Vivo</i> Fertility Evaluation of Cryopreserved Bandur Ram Semen   | Nischitha, B.M.        | G. Sudha<br>Veterinary Pathology                                 |
| 13                                   | Studies on Coagulation Profile in Ehrlichia Affected Dogs  | Pankaj Dhavalgi        | Anil Kumar, M.C.<br>Veterinary Medicine                          |

|    |   |                      |   |
|----|---|----------------------|---|
| 14 | Studies on Immunogenicity and Duration of Immunity of Rabies Vaccine Administered by Different Routes                                     | Namratha, L. Pathi   | H.A. Upendra<br>Veterinary Medicine                     |
| 15 | Study on Comparative Efficacy of Conventional Therapy with Laser Therapy for Acral Lick Dermatitis and Interdigital Pyoderma in Dogs      | Dhavalashree, M.     | M. Narayana Bhat<br>Veterinary Medicine                 |
| 16 | Studies on Certain Neurological Disorders in Dogs   | Sudhanva Upadhya, P. | H.A. Upendra<br>Veterinary Medicine                     |
| 17 | Comparative Efficacy of Serum and Urinary Biomarkers in the Diagnosis of Renal Diseases in Dogs   | Rajat Sagare         | M.A. Kshama<br>Veterinary Medicine                      |
| 18 | Studies on Subclinical Ketosis in Sheep   | Basavanagouda, H.G.  | Santosh, P. Sarangamath<br>Veterinary Medicine          |
| 19 | Studies on the Efficacy of Laser Therapy in the Treatment of Bovine Mastitis  | Babitha, G.R.        | M.A. Kshama<br>Veterinary Medicine                      |
| 20 | Studies on the Occurrence of Blood Parasites in Cattle  | Thirtha Kumar, A.R.  | M.A. Kshama<br>Veterinary Medicine                      |
| 21 | Studies on Influence of Right and Left Lateral Recumbency on Vertebral Heart Score in Labrador Retriever Dogs                             | Mahadev Mullatti     | K.M. Srinivasmurthy<br>Veterinary Surgery and Radiology |
| 22 | Studies on Percutaneous Tibial Fracture Repair by Intramedullary Pinning in Small Ruminants   | Manjunath Gokavi     | B.N. Nagaraja<br>Veterinary Surgery and Radiology       |
| 23 | Evaluation of Midazolam as Pre-Anesthetic and Etomidate as Induction Agent Under Isoflurane Maintenance in Renal Compromised Dogs         | Varun Sastry         | B.N. Nagaraja<br>Veterinary Surgery and Radiology       |
| 24 | Modified Type II External Skeletal Fixation for the Repair of Radius and Ulna Fractures in Dogs   | Harshitha, G.        | B.N. Nagaraja<br>Veterinary Surgery and Radiology       |
| 25 | Studies on Percutaneous Tibial Fracture Repair by Intramedullary Pinning in Bovines   | Tejas Yadav, P.      | B.N. Nagaraja<br>Veterinary Surgery and Radiology       |
| 26 | Studies on Arthrodesis for Tibiotarsal Joint Luxation in Dogs   | Jyothi Shree, S.     | K.M. Srinivasmurthy<br>Veterinary Surgery and Radiology |
| 27 | Studies on the Use of Reconstruction Plates for Pelvic Fractures Repair in Dogs   | Ranjith, K.M.        | K.M. Srinivasmurthy<br>Veterinary Surgery and Radiology |
| 28 | Studies on Percutaneous Tibial Fracture Repair by Intramedullary Pinning in Dogs  | Prashant Soudi       | B.N. Nagaraja<br>Veterinary Surgery and Radiology       |
| 29 | Studies on Type Ia External Skeletal Fixator with Tie-In Configuration for the Treatment of Comminuted Diaphyseal Femur Fractures in Dogs | Ashok Nilajagi       | V. Mahesh<br>Veterinary Surgery and Radiology           |

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|----|---|--------------------------|--|
| 30 | Studies on the Effects of Dexmedetomidine Premedication on Ketamine Induction and Isoflurane General Anaesthesia in Cattle                                    | Muniraju, H.M.           | L. Ranganath<br>Veterinary Surgery and Radiology |
| 31 | Studies on Protein Profile in Tigers  | Kalpana K N              | Dr. V Girish Kumar<br>Veterinary Biochemistry    |
| 32 | Evaluation of Jackfruit ( <i>Artocarpus Heterophyllus</i> ) Residue Silage as a Source of Roughage in Sheep   | Basavaraj Chittaragi     | Prabhu, T.M.<br>Animal Nutrition                 |
| 33 | Effect of Feeding of Hydroponic Maize ( <i>Zea Mays</i> ) Sprouts on intake and Nutrient Digestibility in Sheep   | Milan Monoharmayum       | Prabhu, T.M.<br>Animal Nutrition                 |
| 34 | Nutrient Utilization and Semen Quality Evaluation in Rams Fed Diet with Moringa ( <i>Moringa Oleifera</i> ) Forage Meal                                       | Punitha, G.              | Prabhu, T.M.<br>Animal Nutrition                 |
| 35 | Jamun ( <i>Syzygium Cumini</i> ) Seed Supplementation for Performance and Carcass Characteristics Study in Commercial Broiler Chicken                         | Adarsh, J.               | Suma, N.<br>Animal Nutrition                     |
| 36 | Effect of Feeding Neem Ginger and Garlic Powder on Production Performance Lipid Profile and Immune Response in Commercial Layers                              | Vishwas, K.M.            | Krishnamurthy<br>Poultry Science                 |
| 37 | Influence of Unconventional Feedstuff on Performance and Carcass Characteristics in Giriraja Birds  | Rajwardhan               | Jayanaik<br>Poultry Science                      |
| 38 | Influence of Unconventional Feedstuff on Performance and Carcass Characteristics in Giriraja Birds  | Raghuraman, J.           | Shivakumar, M.C.<br>Poultry Science              |
| 39 | Supplementation of <i>Asparagus Racemosus</i> (Shatavari) on the Growth Performance, Immune Status, Gut Health and Carcass Characteristics in Giriraja Birds  | Bharath Kumar, N.        | Krishnamurthy, T.N.<br>Poultry Science           |
| 40 | Effect of Replacement of Maize with Graded Levels of Mango-Seed Kernel Powder on Growth Performance, Carcass Characteristics and Gut Health in Giriraja Birds | Govindappa, P.           | Indresh, H.C.<br>Poultry Science                 |
| 41 | Socio-Economic Impact of Rearing Giriraja Chicken in Bagalkot District of Northern Karnataka  | Shivaraj, K. Katakabhavi | Indresh, H.C.<br>Poultry Science                 |
| 42 | Effect of Feeding Neem, Ginger and Garlic Powder on Growth Performance, Lipid Profile and Immune Response in Giriraja Birds                                   | Tejashree, L.            | Indresh, H.C.<br>Poultry Science                 |

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|----|--|------------------|--|
| 43 | Effect of Feeding Different Levels of Moringa Leaf Powder on Growth Performance, Immune Status and Gut Health in Raja Li Broiler Chicken       | Sudharshan, K.   | Indresh, H.C.<br>Poultry Science                             |
| 44 | Effect of Various Herbal Agents as Post Milking Teat Dips on Bacterial Load, Somatic Cell Count and Milk Composition in Lactating Dairy Cattle | Deepthi, V.      | Malathi, V.<br>Livestock Production and Management           |
| 45 | Effect of Yeast Selenium on Production Performance, Egg Quality and Egg Selenium in Laying Hens  | Pramod Dodamani  | Malathi, V.<br>Livestock Production and Management           |
| 46 | Storage Stability of Chicken Meat and its Products Using Pomegranate Peel Extract  | Raju, P.B.       | Kiran, M.<br>Livestock Products Technology                   |
| 47 | Effects of Heat Stress on Carcass Traits, Skeletal Muscle Myostatin and Hsp70 Gene Expressions in Indigenous Goat                              | Spandan, P.V.    | S. Wilfred Ruban<br>Livestock Products Technology            |
| 48 | Comparative Study on Carcass and Meat Quality Characteristics of Farm Reared Native, Backyard Native and Giriraja Chicken                      | Anushabai        | S. Wilfred Ruban<br>Livestock Products Technology            |
| 49 | Lactation Induction in Unproductive Cattle   | Arinkumar Kori   | Jagadeesh, S. Sanganal<br>Livestock Products Technology      |
| 50 | Understanding the Shedding Pattern of Antimicrobial Resistant <i>Escherichia Coli</i> in Goat Meat Production System: A Longitudinal Study     | Bharath, R.      | S. Wilfred Ruban<br>Livestock Products Technology            |
| 51 | Effect of age on Carcass and Meat Quality Characteristics in Hassan Sheep  | Shanthesha, K.M. | S. Wilfred Ruban<br>Livestock Products Technology            |
| 52 | Economics of Milk Production in Crossbred Cows – A Critical Analysis in Eastern Dry Zone of Karnataka  | Cahaithra, H.L.  | K. Satyanarayan<br>Veterinary and Animal Husbandry Extension |

**VETERINARY COLLEGE, BIDAR**

|   |   |                          |  |
|---|---|--------------------------|--|
| 1 | Evaluation of Diagnostic Techniques in Cardiac Disorders of Bovines               | Jafarsab                 | Ravindra, B.G.<br>Veterinary Medicine        |
| 2 | Rumen and Liver Profiles in Postparturient Disorders of Cattle                    | Manjunatha Gundappa Meti | N.A. Patil<br>Veterinary Medicine            |
| 3 | Prevalence and Clinicopathological Evaluation of Foreign Body Syndrome in Bovines | Shilpa, B.S.             | Vivek, R. Kasaralikal<br>Veterinary Medicine |
| 4 | Diagnosis and Treatment of Subclinical Ketosis in Buffaloes                       | Nagesh Guru              | Sandeep Halmandge<br>Veterinary Medicine     |
| 5 | Diagnosis and Therapeutic Management of Subclinical Mastitis in Goats             | Basavashree Karanji      | N.A. Patil<br>Veterinary Medicine            |

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|----|--|------------------------|--|
| 6  | Augmentation of Fertility by Herbal and Hormonal Protocols in Postpartum Anestrus Cows   | Mohd Mujaheed Pasha    | R.G. Bijurkar<br>Veterinary Gynaecology and Obstetrics |
| 7  | Study on Cryopreservation of Embryos by using slow Freezing and Vitrification Methods in Sahiwal Cows  | Nidhishree, J. Jakkali | R.G. Bijurkar<br>Veterinary Gynaecology and Obstetrics |
| 8  | Comparative Evaluation of Induction Agents in Drip form using Guaifenesin and Ketamine with or without Dexmedetomidine under Isoflurane Anaesthesia for Various Surgeries in Cattle                                  | Neelkanth              | Dilip Kumar, D.<br>Veterinary Surgery and Radiology    |
| 9  | Ultrasonographic Evaluation of Reticulum in Buffaloes Affected with Thoraco-Abdominal Disorders  | C.N. Vijay Kumar       | Bhagavanthappa, B.<br>Veterinary Surgery and Radiology |
| 10 | Evaluation of Locking String of Pearls Plate for Long Bone Fracture Repair in Dogs   | Kartik Bidari          | Jahangirbasha<br>Veterinary Surgery and Radiology      |
| 11 | Comparative Evaluation of Advanced Locking Plate System and Locking Compression Plate for Femur Fracture Repair in Dogs  | Ojus Srinivas          | Dilip Kumar, D.<br>Veterinary Surgery and Radiology    |
| 12 | Comparative Evaluation of Intramedullary Pinning and Modified Intramedullary Interlocking Nailing Techniques for the Repair of Tibial Fractures under Fentanyl-Ketamine Induction and Isoflurane Maintenance in Dogs | Rhea Marie Gracias     | Dilip Kumar, D.<br>Veterinary Surgery and Radiology    |
| 13 | Evaluation of dietary betaine supplementation on hemato-biochemical profile milkyield and milk composition in deoni cows   | Sonabai Kondiba        | Dr. Shrikant Kulkarni<br>Veterinary Physiology         |
| 14 | Adoption of Goat Management Practices in Bidri Goat Farmers in Bidar District  | Mahe Anjuma            | P.G. Waghmare<br>Livestock Production and Management   |

**VETERINARY COLLEGE, SHIVAMOGGA**

|   |   |                 |   |
|---|---|-----------------|---|
| 1 | An exploratory study on awareness and risk factors of Kyasanur Forest Disease (KFD) among the population in affected region                                     | Yallappa, K.    | Veeranna, K.C.<br>Veterinary and Animal Husbandry Extension |
| 2 | Pharmacological and Toxicological Studies of Aeschynomene Americana in Rats   | Manikanth, C.L. | Shridhar, N.B.<br>Veterinary Pharmacology and Toxicology    |
| 3 | Exploration of Growth Potentiality of Malnad Gidda Calves: A Nutritional Intervention   | Sushma, V.      | T. Thirumalesh<br>Animal Nutrition                          |
| 4 | <i>In Vitro</i> Evaluation of Byproduct of Selected Minor Millets and Nutritional Evaluation of Browntop Millet ( <i>Brachiaria Ramosa</i> ) Byproduct in Sheep | Girisha, T.V.   | V. Nagabhushana<br>Animal Nutrition                         |

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|---|--|-------------------|--|
| 5 | Studies on Prevalence of Cattle Mortalities in Southern Transition and Hilly Zones of Karnataka with Special Reference to Pathology of <i>Mimosa Invisa</i> Toxicity | Sunil Kumar, B.S. | Kavitha Rani, B.<br>Veterinary Pathology         |
| 6 | Studies on Aerobic Bacteria Isolated from Bovine Subclinical and Clinical Endometritis   | Pavithra, B.S.    | Shambhulingappa, B.E.<br>Veterinary Microbiology |
| 7 | Antimicrobial Resistance and Molecular Epidemiology of <i>Salmonella</i> and <i>Staphylococcus</i> Species in Milk Value Chain                                       | Supriya, K.       | Nagappa Karabasanavar<br>VPH&E                   |
| 8 | Studies on Metabolic and Hematological Profiles in Crossbred Cows with Cytological Endometritis  | Avinash, R.G.     | A.M. Kotresh<br>Veterinary Biochemistry          |

**VETERINARY COLLEGE, HASSAN**

|   |  |                   |   |
|---|--|-------------------|---|
| 1 | Influence of Single Cell Protein Incorporated Diets on Performance of Commercial Broilers Based on Total and Standardised Ileal Amino Acids            | Roopa, C.         | Suresh, B.N.<br>Animal Nutrition                  |
| 2 | Comparison of <i>Bacillus Calmette Guerin</i> (BCG) Vaccine and Mitomycin C to the Recurrence after Surgical Excision of Third Eyelid Cancer in Cattle | Priyanka, N.      | B.N. Nagaraja<br>Veterinary Surgery and Radiology |
| 3 | Comparative Study on Dexmedetomidine and Romifidine as Preanaesthetic for Propofol General Anaesthesia in Dogs   | Chandrashekar, M. | B.N. Nagaraja<br>Veterinary Surgery and Radiology |

**DAIRY SCIENCE COLLEGE, BENGALURU**

|   |   |                 |                                       |
|---|---|-----------------|---------------------------------------|
| 1 | Development of Avocado Pulp-Carrot Juice Blended Probiotic Dahi   | Gangaraju, B.V. | M. Venkatesh<br>Dairy Technology      |
| 2 | Development of Sterilized Functional Paneer Kheer Utilizing Pumpkin ( <i>Cucurbita Sp.</i> ) Seeds and Whey Protein Concentrate (WPC) | Pooja           | H. Arun Kumar<br>Dairy Technology     |
| 3 | Development of Functional Yoghurt Drink   | Nandini, V.     | H.M. Jayaprakasha<br>Dairy Technology |
| 4 | Utilization of Black Plum ( <i>Syzygium Cumini</i> ) Seed Powder in the Development of Functional Kulfi                               | Chethan, N.     | D.B. Puranik<br>Dairy Technology      |
| 5 | Development of Shrikhand Enriched with Moringa Leaf Powder and Banana Pulp  | Rajmohamad      | M. Venkatesh<br>Dairy Technology      |
| 6 | Development of Shrikhand Enriched with Tamarind ( <i>Tamarindus Indica L.</i> ) and Amla ( <i>Emblica Officinalis</i> ) Extract       | Vijay Kumar, N. | M. Venkatesh<br>Dairy Technology      |
| 7 | Development of Low Calorie Khoa and Khoa Based Sweets   | Varsha, M.      | H.M. Jayaprakasha<br>Dairy Technology |
| 8 | Development of Functional Bread Enriched with Jackfruit ( <i>Artocarpus Heterophyllus</i> ) Seed Powder                               | Vybhava, H.S.   | D.B Puranik<br>Dairy Technology       |

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|----|--|--------------------------------|--|
| 9  | Development of Value Added Ready to Eat Paneer   | Usharani, K.N.                 | H. Arun Kumar<br>Dairy Technology        |
| 10 | Development of Millet Based Functional Milk Bread  | Nanda Kiran, S.                | D.B. Puranik<br>Dairy Technology         |
| 11 | Production of Sodium Caseinate Hydrolysate-Zinc Complex and its Utilization in Bakery Products                       | Shaik Mohammad<br>Azmathullah. | Jayashri, P. Hiremath<br>Dairy Chemistry |
| 12 | Evaluation of Quality Attributes of Shrikhand Supplemented with Microencapsulated Probiotic Bacteria                 | Pavan, S.R.                    | Jayashri, P. Hiremath<br>Dairy Chemistry |
| 13 | Physico - Chemical Characterization of Probiotic Goat (Capra Aegagrus Hircus) Milk Lassi                             | Chethan, N. Adiver             | Jayashri, P. Hiremath<br>Dairy Chemistry |
| 14 | Evaluation of Quality Attributes of Flavoured Goat Milk Incorporated with Microencapsulated Vitamin-C                | Kaparathi Bhanu Teja           | Jayashri, P. Hiremath<br>Dairy Chemistry |
| 15 | Phylogenetic Study of Listeria Species Isolated from Dairy Environmental Samples                                     | P. Sushmitha                   | R. Prabha<br>Dairy Microbiology          |
| 16 | Evaluation of Lactic Probiotic Nature of Commercially Available Probiotic Foods and Supplements                      | P. Divyavasavi                 | R. Prabha<br>Dairy Microbiology          |
| 17 | Optimization of Bulk Culture Propagation for the Prodction of Misti Dahi   | P. Pavan Kumar                 | Ramchandra, B.<br>Dairy Microbiology     |
| 18 | Formulation and Validation of Selective Media for the Enumeration of Lactic Acid Bacteria in Fermented Milk Products | S. Gopal                       | R. Prabha<br>Dairy Microbiology          |
| 19 | Study on the Efficacy of Nisin as an Antimicrobial Agent in Paneer Packaging Material                                | Manu, T.V.                     | Ramchandra, B.<br>Dairy Microbiology     |

**COLLEGE OF FISHERIES, MANGALURU**

|   |   |                    |                             |
|---|---|--------------------|-----------------------------|
| 1 | Influence of Substrate on Heterotrophic Food Production and Growth of <i>Labeo Fimbriatus</i> <i>Barbodes Carnaticus</i> <i>Macrobrachim</i> <i>Rosenbergil</i> | Patkar Aditi Rajan | N. Manjappa<br>Aquaculture  |
| 2 | Effects of Sodium Propionate as Growth Stimulant and Immunomodulator in the Diet of Indian Major Carp <i>Labeo Rohita</i>                                       | Kantha Raja, P.    | E.G. Jayaraj<br>Aquaculture |
| 3 | Dietary Incorporation of Organic Acid Salt, Sodium Acetate on Gut Histology and Immunomodulation in Indian Major Carp <i>Labeo Rohita</i>                       | Suryakiran, M.     | E.G. Jayaraj<br>Aquaculture |
| 4 | Evaluation of Different Agents to Control Turbidity in Water  | Thippeswamy, T.S.  | Shivakumar, M.<br>AEM       |
| 5 | Influence of Gamma Irradiation and Low Temperature Storage on the Quality and Shelf Life of <i>Cobia</i> Fillets ( <i>Rachycentron Canadum</i> )                | Sagarnaik, C.      | B. Manjanaik<br>FPT         |



|    |  |                                 |   |
|----|--|---------------------------------|---|
| 6  | Combined Effect of Irradiation and Low Temperature Storage on the Microbial, Biochemical Quality and Shelflife of Gift Tilapia ( <i>Oreochromis Niloticus</i> )          | Hameedali Mulla                 | B. Manjanaik<br>Fish Processing<br>Technology             |
| 7  | Effect of Seafood Industry Waste in Poultry Feed on Performance of Broiler and Giriraja Chicks   | Rudrappa Bichagatti             | C.V. Raju<br>Fish Processing<br>Technology                |
| 8  | Effect of Freezing and Frozen Storage of Edible Oyster and its Value Added Product   | Aishwarya Govindaray<br>Kalekar | S. Siddappaji<br>Fish Processing<br>Technology            |
| 9  | Screening of Bacterial Pathogens Associated with Diseased Freshwater Ornamental Fishes   | Amit Kumar Soren                | S.K. Girisha<br>Fisheries Microbiology                    |
| 10 | Immune Genes Expression in Ornamental Fish Against Infectious Spleen and Kidney Necrosis Virus (ISKNV) Infection   | Dheeraj, S.B.                   | S.K. Girisha<br>AAHM                                      |
| 11 | Assessment of <i>Aeromonas Hydrophila</i> Biofilm as Oral Vaccine Candidate Against <i>Aeromonas</i> Infection in Nile Tilapia ( <i>Oreochromis Niloticus</i> )          | Chandan, D.V.                   | K.S. Ramesh<br>AAHM                                       |
| 12 | Isolation of Bioactive Molecules from Nematocysts of Jellyfish along Karnataka Coast   | Harshitha, H.                   | T. Suresh<br>AAHM   |
| 13 | Studies on Biological Aspects and Body Composition of Non-Conventional Fish, Red-Toothed Triggerfish <i>Odonus Niger</i> (Ruppell, 1836) along Mangaluru and Malpe Coast | Suyani Nitin Kanji              | Mridula Rajesh<br>Fisheries Resources and<br>Management   |
| 14 | To Study Different Preservation Technique in Fish for Academic use   | Harisha                         | Kumar Nauk, A.S.<br>FRM                                   |
| 15 | Assessment of Ichthyofaunal Biodiversity of Swarna River Estuary of Udupi District in Karnataka.   | Harshath, D.G.                  | H.N. Anjanagappa<br>Fisheries Resources and<br>Management |
| 16 | Studies on the Fishery and Biology of Obtuse Barracuda, <i>Sphyraena Obtusata</i> [Cuvier, 1829] along Mangaluru and Malpe Coast   | Meshram Monti Madan             | Mridula Rajesh<br>Fisheries Resources and<br>Management   |
| 17 | Studies on the Effect of Square Mesh Codend by using Different Bridle Lengths for the Trawl Net Operated along the Mangaluru Coast Of Karnataka                          | Haldankar Siddhant<br>Shrikant  | Jaya Naik<br>Fisheries Engineering and<br>Technology      |

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 Dietary Supplementation of Nano Selenium and Nano Curcumin on the Antioxidant Profile, Immune Status and Growth Performance in Broiler Chickens                           | Shwetha, H.S.                     | M. Narayan Swamy<br>Veterinary Physiology        |
| 2                                    | Molecular Epidemiology of Newcastle Disease Virus from Different Avian Species  | Balam Deepthi                     | Rathanamma<br>Veterinary Microbiology            |
| 3                                    | Studies on Antimicrobial Resistance (AMR) in Predominant Staphylococci and <i>Escherichia Coli</i> associated with Bovine Mastitis and Combinatorial Approach for Mitigation of AMR | Saritha, N.S.                     | Shrikrishna Isloor<br>Veterinary Microbiology    |
| 4                                    | Studies on Soluble VEGFR-2 Protein and Development of Recombinant SVEGFR-2 Elisa for the Diagnosis of Canine Mammary Tumors   | Raghavendra Srikanth, N.          | V. Girish Kumar<br>Veterinary Biochemistry       |
| 5                                    | Studies on Anthelmintic Resistance to Commonly Occurring Strongyles in Sheep in Hassan District   | Veena, M.                         | G.C. Puttalakshammam<br>Veterinary Parasitology  |
| 6                                    | Morphological and Molecular Characterization of Eimeria Species in Desi Chicken   | M. Dawood                         | G.C. Puttalakshamma<br>Veterinary Parasitology   |
| 7                                    | Epidemiological and Molecular Studies on Culicoides Midges in Northern Telangana Region   | Dasmabaibanothu                   | K.J. Ananda<br>Veterinary Parasitology           |
| 8                                    | Studies on Ultrasonographic Fetometry to Determine Gestational age in Nellore Ewes and its Validation in the Field  | K. Jyothi                         | Sudha<br>Veterinary Gynaecology and Obstetrics   |
| 9                                    | Study on Endometrial Thickness and Therapeutic Approach to Altered Endometrial Thickness in Cattle  | K. Sai Gunaranjan                 | Sudha<br>Veterinary Gynaecology and Obstetrics   |
| 10                                   | Studies on Atopic Dermatitis in Pugs  | Bhagya, B.K.                      | C. Ansar Kamran<br>Veterinary Medicine           |
| 11                                   | An Epidemiological Study on Porcine Respiratory Disease Complex with Special Reference to Viral Diseases of Pigs in Hassan District   | Satheesha, S.P.                   | Narayana. M. Bhat<br>Veterinary Medicine         |
| 12                                   | Diagnosis of Cardiomyopathy in Dogs with Special Reference to Genetic Studies   | Sagar, R.S.                       | Narayana, M. Bhat<br>Veterinary Medicine         |
| 13                                   | Studies on Bacterial Respiratory Tract Infections in Sheep with Special Emphasis on Mannheimia Haemolytica  | C. Pavan Kumar                    | P.T. Ramesh<br>Veterinary Medicine               |
| 14                                   | Studies on the Estimation of Plastic Residues in Milk of Bovines with Ruminant Impaction – Prognostic Diagnostic and Therapeutic Approach   | Kamalakar Gurram                  | B.N. Nagarja<br>Veterinary Surgery and Radiology |

|    |   |                       |  |
|----|---|-----------------------|--|
| 15 | Studies on Non-Invasive Retrograde Retrieval of Non-Potential Foreign Bodies from the Caudal Cervical Esophagus in Bovines              | Tharasing Daku Lamani | B.N. Nagarja<br>Veterinary Surgery and Radiology |
| 17 | Nutritional Evaluation of Hydroponic Green Fodder for its Potential as Ruminant Feedstuff by <i>In Vitro</i> and <i>In Vivo</i> Methods | Chethan, K.P.         | T.M. Prabhu<br>Animal Nutrition                  |
| 17 | Effect of Dietary Organic and Nano Copper on Growth Performance, Meat and Egg Quality Traits in Giriraja and Swarnadhara Chicken        | Aminullah             | T.M. Prabhu<br>Animal Nutrition                  |
| 18 | Molecular Characterization of Toll Like Receptors in Malnad Gidda Cattle  | Satheesha, G.M.       | R. Nagaraja<br>Animal Genetics and Breeding      |
| 19 | Characterization and Performance Evaluation of Indigenous Chicken in Gulbarga Division of Karnataka State                               | Sudhir Naik           | Jayanaik<br>Poultry Science                      |

**VETERINARY COLLEGE, BIDAR**

|   |   |                        |  |
|---|---|------------------------|--|
| 1 | Management of Anoestrus and Repeat Breeder Bovines through Controlled Breeding Programme                | Sanjeev Kumar Patil    | M.K. Tandle<br>Veterinary Gynaecology and Obstetrics |
| 2 | Prevalence, Haematobiochemical and Therapeutic Studies on Deficiency related Haemoglobinuria in Bovines | Satbige Ajay Suryakant | N.A. Patil<br>Veterinary Medicine                    |

**DAIRY SCIENCE COLLEGE, BENGALURU**

|   |  |                               |                                  |
|---|--|-------------------------------|----------------------------------|
| 1 | Development of Value Added Biscuits Fortified with Calcium and Vitamin-D   | Kesapuram Neela Sai Sreenivas | D.B. Puranik<br>Dairy Technology |
| 2 | Microbiological and Nutritional Assessment of Tiger Nut ( <i>Cyperus Esculentus</i> ) Milk Based Probiotic Drink | Malashree, L.                 | R. Prabha<br>Dairy Microbiology  |
| 3 | Evaluation of Incorporated Solid State Fermented (SSF) Cultures for Paneer Whey Based Idli Batter                | Viahwanatha Angadi            | R. Prabha<br>Dairy Microbiology  |

**COLLEGE OF FISHERIES, MANGALURU**

|   |   |              |   |
|---|---|--------------|---|
| 1 | Effect of Dietary Supplementation of Leucine, Vitamin-C and Combination of both on Growth, Survival, Immune Response and Disease Resistance in Indian Major Carp, <i>Labeo Rohita</i> | Rakesh, K.   | H. Shivanadamurthy<br>Aquaculture                     |
| 2 | Extraction of Antioxidant Component from Squid Ink Sac and its Influence on Storage Stability of Fish Product   | Gagendra     | C.V. Raju<br>Fish Processing Technology               |
| 3 | Development of Therapeutic Phage Consortia to Manage <i>Aeromonas Hydrophila</i> Infection in Aquaculture Systems   | Nithin, M.S. | S.K. Girisha<br>Fisheries Microbiology                |
| 4 | Biology and Population Dynamics of <i>Scoliodon Laticaudus</i> , Müller and Henle, 1838, with a Note on Shark Fishery of Karnataka Coast  | Nayana, P.   | S.R. Somshekara<br>Fisheries Resources and Management |

## ABSTRACT

| #            | Name of the College              | Master Degree Thesis Accepted | Doctoral Degree Programme Thesis Accepted | Total      |
|--------------|----------------------------------|-------------------------------|---|------------|
| 1            | Veterinary College, Bengaluru    | 52                            | 19  | <b>71</b>  |
| 2            | Veterinary College, Bidar        | 14                            | 2   | <b>16</b>  |
| 3            | Veterinary College, Shivamogga   | 8                             | -   | <b>8</b>   |
| 4            | Veterinary College, Hassan       | 3                             | -   | <b>3</b>   |
| 5            | Dairy Science College, Bengaluru | 19                            | 3   | <b>22</b>  |
| 6            | College of Fisheries, Mangaluru  | 17                            | 4   | <b>21</b>  |
| <b>Total</b> |                                  | <b>113</b>                    | <b>28</b>                                 | <b>141</b> |

### 6) Library and Information Services

#### University Library and Information Centre, KVAFSU, Bidar

The University has Library and Information Centre facilities in all its constituent colleges with large collection of Print Medias i. e. books, journals/periodicals, e- books, e- journals, online databases and online journals platform. In addition of these all the Library and Information Centers have well connected Internet facility for accessing CeRA Consortium.

#### (i) Print Media (books, journals/periodicals) as on 31.03.2022

| #  | Particulars      | L&IC VCH& DSCH  | UL&IC,, Bidar | L&IC VCS | L&IC HVC | L&IC DSCK | L&IC FCM | L&IC VCG | Total        |
|----|------------------|---|---------------|----------|----------|-----------|----------|----------|--------------|
| 1  | Books            | 21334   | 13870         | 7484     | 7140     | 2528      | 18364    | 1869     | <b>56089</b> |
| 2  | Theses           | 1970  | 1056          | 34       | 13       | Nil       | 936      | Nil      | <b>4009</b>  |
| 3  | Reports          | 1004  | 305           | 108      | 158      | Nil       | 3238     | Nil      | <b>4813</b>  |
| 4  | Pamphlets        | 712   | 500           | 25       | 74       | Nil       | 965      | Nil      | <b>2276</b>  |
| 5  | Bound Volumes    | 12572   | 2803          | 143      | 1042     | Nil       | 6405     | Nil      | <b>22965</b> |
| 6  | Gift Books       | 1446  | 182           | 211      | 17       | 95        | 655      | 25       | <b>2631</b>  |
| 7  | SC/ST Books      | 2599  | 2990          | 1503     | 1091     | 867       | 1890     | 252      | <b>11192</b> |
| 8  | Indian Journals  | 17  | 32            | 09       | 45       | Nil       | ---      | 1        | <b>104</b>   |
| 9  | Foreign Journals | 06  | 05            | --       | 02       | Nil       | ---      | Nil      | <b>13</b>    |
| 10 | Back Volumes     | 12572   | 2803          | 143      | 1042     | Nil       | 6405     | Nil      | <b>22965</b> |
| 11 | Others           |   |               |          |          |           |          |          |              |
|    | News papers      | 10  | 12            | 07       | 04       | 06        | 08       | 03       | <b>50</b>    |
|    | Magazine         | 05  | 16            | 11       | 03       | 05        | 14       | 10       | <b>64</b>    |
| 12 | E-Books          | 1338 e-books are 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. |               |          |          |           |          |          | <b>1338</b>  |

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

| # | Particulars        | L&IC<br>VCH&<br>DSCH  | UL&IC,<br>Bidar  | L&IC<br>VCS  | L&IC<br>HVC  | L&IC<br>DSCK   | L&IC<br>FCM                     | L&IC<br>VCG | Total       |
|---|--------------------|---|--|--|--|--|---------------------------------|-------------|-------------|
| 1 | e-journals /<br>CD | CeRA +<br>Vet Med<br>Resources<br>CABI<br>Database +<br>21 Indian<br>online<br>Journals<br>accessing<br>through<br>EZYproxy<br>server | CeRA +<br>Vet Med<br>Resources<br>CABI<br>Database +<br>21 Indian<br>online<br>Journals<br>accessing | CeRA +<br>Vet Med<br>Resources<br>CABI<br>Database | CeRA +<br>Vet Med<br>Resources<br>CABI<br>Database | Not getting<br>due to net<br>and<br>accreditation<br>problem | CeRA<br>Consortium<br>Accessing | --          | 145<br>VMR  |
| 2 | CD's               | <b>280</b>  | <b>140</b>   | <b>56</b>  | <b>159</b>   | --   | <b>1346</b>                     | -           | <b>1981</b> |

**(iii) Membership Usage**

| #            | Particulars                                  | L&IC<br>VCH&<br>DSCH | UL&IC,<br>Bidar | L&IC<br>VCS | L&IC<br>HVC | L&IC<br>DSCK | L&IC<br>FCM | L&IC<br>VCG | Total       |
|--------------|--|----------------------|-----------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1            | Students at UG<br>Level / per day<br>average | 426                  | 335             | 393         | 387         | 97           | 120         | 197         | <b>1955</b> |
| 2            | Students at PG<br>Level / per day<br>average | 193                  | 42              | 21          | 13          | --           | 45          | --          | <b>314</b>  |
| 3            | Staffs / per day<br>average                  | 130                  | 51              | 54          | 40          | 15           | 10          | 33          | <b>333</b>  |
| <b>Total</b> |  | <b>749</b>           | <b>428</b>      | <b>468</b>  | <b>440</b>  | <b>112</b>   | <b>175</b>  | <b>230</b>  | <b>2602</b> |

## 7) Student Welfare Activities

### DIRECTORATE OF STUDENT WELFARE, KVAFSU, BIDAR

Events have not been conducted due to COVID-19 Pandemic

## 8) National Service Scheme (NSS)

### NATIONAL SERVICE SCHEME, KVAFSU, Bidar

1. **Allotment of volunteer strength and Budget for the year 2021-22:** The following numbers NSS volunteers were allocated to NSS units of constituent colleges.

| #  | Name of the college and unit             | Volunteer's Strength for regular activities | Volunteer's Strength for Special camp activities |
|----|--|---|--|
| 1  | Veterinary College, Bengaluru (Unit I)   | 80  | 40   |
| 2  | Veterinary College, Bengaluru (Unit II)  | 80  | 40   |
| 3  | Veterinary College, Bidar (Unit I)       | 70  | 35   |
| 4  | Veterinary College, Bidar (Unit II)      | 70  | 35   |
| 5  | Veterinary College, Shivamogga (Unit I)  | 86  | 43   |
| 6  | Veterinary College, Shivamogga (Unit II) | 86  | 43   |
| 7  | Veterinary College, Hassan (Unit I)      | 80  | 40   |
| 8  | Veterinary College, Hassan (Unit II)     | 80  | 40   |
| 9  | Veterinary College, Gadag (Unit I)       | 56  | 28   |
| 10 | Veterinary College, Gadag (Unit II)      | 56  | 28   |
| 11 | College of Fisheries, Mangaluru          | 100   | 50   |
| 12 | Dairy Science College, Bengaluru         | 90  | 45   |
| 13 | Dairy Science College, Kalaburgi         | 66  | 33   |
|    | <b>TOTAL</b>                             | <b>1000</b>                                 | <b>500</b>                                       |

2. **Allotment of budget to NSS units for the year 2021-2022:** The budget of Rs. 2,50,000/- for NSS Regular activities and Rs. 2,25,000/- for NSS Special camp activities was released by the state NSS cell for the financial year 2021-2022. The released grant has been distributed to the constituent colleges for the utilization in the year 2021-2022 as detailed below:

| #  | Name of the college and unit             | Regular activities | Special camp     | Total budget     |
|----|--|--------------------|------------------|------------------|
| 1  | Veterinary College, Bengaluru (Unit I)   | 16000.00           | 18000.00         | 34000.00         |
| 2  | Veterinary College, Bengaluru (Unit II)  | 16000.00           | 18000.00         | 34000.00         |
| 3  | Veterinary College, Bidar (Unit I)       | 14000.00           | 15750.00         | 29750.00         |
| 4  | Veterinary College, Bidar (Unit II)      | 14000.00           | 15750.00         | 29750.00         |
| 5  | Veterinary College, Shivamogga (Unit I)  | 17200.00           | 19350.00         | 36550.00         |
| 6  | Veterinary College, Shivamogga (Unit II) | 17200.00           | 19350.00         | 36550.00         |
| 7  | Veterinary College, Hassan (Unit I)      | 16000.00           | 18000.00         | 34000.00         |
| 8  | Veterinary College, Hassan (Unit II)     | 16000.00           | 18000.00         | 34000.00         |
| 9  | Veterinary College, Gadag (Unit I)       | 11200.00           | 12600.00         | 23800.00         |
| 10 | Veterinary College, Gadag (Unit II)      | 11200.00           | 12600.00         | 23800.00         |
| 11 | College of Fisheries, Mangaluru          | 20000.00           | 22500.00         | 42500.00         |
| 12 | Dairy Science College, Bengaluru         | 18000.00           | 20250.00         | 38250.00         |
| 13 | Dairy Science College, Kalaburgi         | 13200.00           | 14850.00         | 28050.00         |
| 14 | NSS Cell, KVAFSU, Bidar                  | 50000.00           | -                | 50000.00         |
|    | <b>TOTAL</b>                             | <b>250000.00</b>   | <b>225000.00</b> | <b>475000.00</b> |

**3. Participation of NSS Volunteers in State level/ National level events:** The NSS Volunteer's of the university participated in various State/National level NSS events as detailed below:

**a. The National integration camp organized by Karnataka Law University, Hubli at SDM Law College, Mangalore from 14.03.2022 to 20.03.2022**

| # | Name & I.D.No. of Student    | Class                  | College                         |
|---|------------------------------|------------------------|---------------------------------|
| 1 | Ms. Neha.S.P. (FMK 2027)     | 2 <sup>nd</sup> B.F.Sc | College of Fisheries, Mangaluru |
| 2 | Ms. Sneha.B (FMK 2039)       | 2 <sup>nd</sup> B.F.Sc | College of Fisheries, Mangaluru |
| 3 | Mr. Veeresh (FMK 2042)       | 2 <sup>nd</sup> B.F.Sc | College of Fisheries, Mangaluru |
| 4 | Mr. Vijay Kumar.M.(FMK 2043) | 2 <sup>nd</sup> B.F.Sc | College of Fisheries, Mangaluru |

**b. The National integration camp held at Gulbarga University, Kalaburagi from 03.03.2022 to 09.03.2022.**

| # | Name & I.D.No. of Student                 | Class                                | College                   |
|---|---|--------------------------------------|---------------------------|
| 1 | Mr. Somashekhar Choudanki (VBK 1945)      | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 2 | Ms Srushti (VBK 1946)                     | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 3 | Ms. Divya (VBK 1917)                      | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 4 | Mr. Bhagyesh Hanamant Basagond (VBK 1913) | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 5 | Mr. Abhishek (VBK 1903)                   | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 6 | Ms. Ankita (VBK1907)                      | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 7 | Mr. Ashwin Rajesh (VBK1910)               | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |
| 8 | Ms. Nivedita Ajith (VBK 1935)             | 3 <sup>rd</sup> Year<br>B.V.Sc & A.H | Veterinary College, Bidar |

**c. Medals/awards/recognition of NSS volunteers**

| # | Name, I.D.No. of Student and College                           | Class                                 | Particulars  |
|---|--|---------------------------------------|--|
| 1 | Masiyanna H.M. (HVK 1727)<br>Veterinary College, Hassan        | 4 <sup>th</sup> Year<br>B.V.Sc.& A.H. | Won award in the State level chitra-kavan (paint-poem) completion 'Darpana'  |
| 2 | Sachin K.P. (VSK 1852)<br>Veterinary College, Shivamogga       | 3 <sup>rd</sup> Year<br>B.V.Sc.& A.H. | Selected for the award of "Swachhta Saarthi Fellowship" for the year 2021 under "Waste to Wealth" mission of Govt. of India. |
| 3 | Rohit Anavalmath ,(VSK 1851)<br>Veterinary College, Shivamogga | 3 <sup>rd</sup> Year<br>B.V.Sc.& A.H. | Selected for the award of "Swachhta Saarthi Fellowship" for the year 2021 under "Waste to Wealth" mission of Govt. of India. |

#### 4. Details of various programmes conducted by NSS Cell of the university to commemorate “Azadi Ka Amrit Mahotsav”

**a. Fit India Freedom Run:** A freedom run was organized for the staff and students of Veterinary College, Bidar on 16.08.2021 in the university sports complex of KVAFSU, Bidar. Dr K.C.Veeranna, Registrar of the university, inaugurating the programme highlighted the importance of physical fitness of every human being and for the youths in particular. About 200 students, teaching and non-teaching staff took participation in the freedom run. Various university officers viz., Dr. B.V.Shivaprakash, Dr. M.D.Suranagi, Dr. U S Jadhav graced function. Dr .D. Dilipkumar, Dean of Veterinary College, Bidar presided over the function. The function was organized by Dr. Shrikant Kulkarni, NSS Programme Coordinator of the university.

**b. Online training programme on “Role of Panchayat members in good governance”:** As the part of celebration of “Good Governance Week (20.12.2021 to 26.12.2021)”, an online training programme was organized on “*Role of Panchayat members in good governance*” for the benefit of Gram Panchayat members on 22.12.2022. Dr. H.D.Narayanaswamy, Hon’ble Vice-Chancellor of the university inaugurated the programme. Dr. K C Veeranna, Registrar of the university was the chief guest for the function. Dr. R. Y. Gurikar, Executive Officer, Taluka Panchayat, Lakshmeshwar, Gadag District was the resource person for this training programme. Dr. Shrikant Kulkarni, NSS Programme Coordinator of the university organized this function.

**c. Workshop on “Malnutrition” and “Gender inequality”:** A workshop on “Malnutrition” and “Gender inequality” issues was organized for the NSS volunteers on 29.03.2021. Mrs. Rajeshwari R, Scientist (Food and Nutrition), ICAR-Krishi Vignyana Kendra, Bidar and Mr. B Subrahmanya Prabhu, Director, Sahakara Rural Development Academy, Bidar were the resource persons for this workshop. Mrs. Rajeshwari R, delivered a lecture on “*Nutrition and Healthy Food for Adolescents*”, where as Mr. B Subrahmanya Prabhu, delivered a lecture on “*Gender Equality and Women empowerment*”. Dr .D. Dilipkumar, Dean of Veterinary College, Bidar was the chief guest for the function. Dr. Shrikant Kulkarni, NSS Programme Coordinator of the university presided over function.

**5. NSS regular activities conducted by different colleges:** Along with the regular NSS activities like shramadhan, campus cleaning, watering to the plants in the campus etc., the following important events were celebrated by different NSS units of constituent colleges of the university.

| Date                                  | Events   |
|---------------------------------------|--|
| <b>Veterinary College, Bidar</b>      |  |
| 05.05.2021                            | Online workshop on “Mental Wellbeing during pandemics”   |
| 05.06.2021                            | Online “Environmental Pledge” and various environmental related activities as a part of World Environment Day” |
| 21.06.2021                            | Online Seven Yogasana Challenge as a part of World Yoga Day celebration -2021                                  |
| 05.07.2021                            | “Climate Change Symposium” organized by State NSS cell, Karnataka.   |
| 16.08.2021                            | Fit India Freedom Run-2021   |
| 23.07.2021                            | Online Cheer India Olympics-2020 by NSS volunteers   |
| <b>Veterinary College, Bengaluru</b>  |  |
| 22.09.2021                            | Blood Donation Camp  |
| <b>Veterinary College, Shivamogga</b> |  |
| 05.06.2021                            | Plantation Drive on and off the campus by volunteers on occasion of Environmental Day                          |



|   |   |
|---|---|
| 21.06.2021                                      | Celebration of Online International Yoga Day  |
| 12.10.2021                                      | Organization of Clean Campus Drive on the occasion of Clean India Program,  |
| 22.10.2021                                      | On the occasion of Azadi Ki Amrutmahotsav/ Clean India Program, Awareness Drive was organized in collaboration other organizations  |
| 29.08.2021                                      | In view of National Sports Day, a Fit India Freedom Run was organised   |
| 06.03.2022                                      | Mass Cleaning Campaign in collaboration with Paropakaram Team and Forest Dept   |
| <b>Veterinary College, Hassan</b>               |   |
| 24.04.2021                                      | Celebration of World Veterinary Day   |
| 05.06.2021                                      | Celebration of World Environmental Day by plantation  |
| 21.06.2021                                      | Celebration of 7 <sup>th</sup> International Day of Yoga: Online Yogabhyas with the theme 'Yoga for wellbeing'  |
| 23.07.2021                                      | I#Cheer4Inida movement for the Tokyo Olympic 2020 by NSS volunteers   |
| 10.08.2021<br>to<br>15.08.2021                  | Azadi ka Amrit Mahotsav – Sing the National Anthem , Run for India  |
| 28.09.2021                                      | World rabies day celebration - Release of rabies video prepared by the NSS volunteer  |
| 02.10.2021                                      | Celebration of Gandhiji Jayanti   |
| 08.10.2021                                      | World Egg Day celebration: Distribution of eggs to children of nearby government primary schools, staff and workers   |
| 12.10.2021                                      | “Azadi Ka Amrit Mahotsav” Commemoration of 75 years of progressive India<br>“Clean India Campaign” organized on 12th October, 2021<br>Speakers<br>1) Topic: Gandhi Philosophy and clean India movement<br>Speaker: Dr. H.L. Mallesh Gowda, Professor (Retd.), AVK College, Hassan<br>2) Topic: Clean India Campaign<br>Dr. Md. Nadeem Fairoze, Professor & DI-PGS (Retd.), KVAFSU, Bidar<br>3) Topic: Azadi Ka Amrit Mahotsav<br>Dr. M. C. Shivakumar, Dean, Veterinary College, Hassan |
| 25.10.2021                                      | Release of video song on FMD by Hon'ble Vice-Chancellor, KVAFSU-B prepared by NSS volunteer   |
| <b>Veterinary College, Gadag</b>                |   |
| 07.09.2020                                      | Fit India Freedom Run   |
| 12.10.2020                                      | COVID 19 Awareness Programme and COVID 19 Pledge programme  |
| 04.12.2020                                      | Fitness ka Doz Ek Ada Ganta Roz   |
| <b>Dairy Science College, Hebbal, Bangaluru</b> |   |
| 29.10.2021                                      | Health and Blood Donation Camp  |
| 26.11.2021                                      | National Milk Day celebration   |
| 02.03.2022                                      | Traffic rules awareness programme   |
| <b>College of Fisheries, Mangaluru</b>          |   |
| 05.06.2021                                      | World Environment Day Celebration by Planting the saplings  |
| 21.06.2021                                      | International yoga day Celebration  |
| 24.09.2021                                      | NSS Day Celebration   |
| 12.01.2022                                      | National Youth day Celebration  |
| <b>Dairy Science College, Kalaburagi</b>        |   |
| 01.06.2021                                      | World Milk Day Celebration  |
| 31.03.2022                                      | Talk on “Consumer awareness” on behalf of World Consumer day  |

**6. NSS Annual Special Camps conducted by different colleges:** 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                    | Organized 7 days special camp at College campus ( Due to Covid-19 Restrictions)                   | 17.02.2022<br>to<br>23.02.2022 |
| 2 | Veterinary College, Bengaluru (Unit I and Unit II) | Name of the village: Sankanahalli<br>Hobli: Nagamangala<br>Taluk: Nagamangala<br>District: Mandya | 05.03.2022<br>to<br>11.03.2022 |
| 3 | Veterinary College, Gadag (Unit I and Unit II)     | Name of the village: Kadakol<br>Hobli: Kadakol<br>Taluk: Shirahatti<br>District: Gadag            | 09.03.2022<br>to<br>15.03.2022 |

**9) Other co-curricular activities**

**VETERINARY COLLEGE, BIDAR**

| #  | Date       | Activity   |
|----|------------|--|
| 1  | 01.04.2021 | Final year students of Horticulture College, Bidar visiting the college as part of RAWE (Rural Awareness Work Experience) Programme  |
| 2  | 06.07.2021 | Technical Webinar (Seminar) on “Anthrax - a long known enemy” on the occasion of World Zoonosis Day 2021   |
| 3  | 08.07.2021 | National Refresher Course (NRC) on “Reorienting Extension Education and Advisory Services for Sustainable Development of Farming Community” from 8 <sup>th</sup> -28 <sup>th</sup> July, 2021  |
| 4  | 16.08.2021 | Organized Cricket Tournament between students, teaching and non teaching staff of KVAFSU, Bidar “Fit India Freedom 2.0” on the occasion of “Azaadi Ka Amrit Mahotsava @75 organized by Coordinator, NSS, KVAFSU, Bidar   |
| 5  | 08.10.2021 | World Egg Day” celebration organized by Livestock Production Management, Veterinary College, Bidar in Old Examination Hall, VCB  |
| 6  | 28.10.2021 | Elimination of corruption programme held in collaboration with Lokayukta Department of Bidar   |
| 7  | 01.11.2021 | Celebration of Kannada Rajotsava by hoisting flag and speech   |
| 8  | 09.11.2021 | District law service department and Veterinary College, Bidar jointly organized a programme on awareness on law and help available. Shri Kadlur Satyanaranacharya Hon’ble Chief District Magistrate and Ashok Manure, District Bidar Association representative were present |
| 9  | 14.11.2021 | Celebration of 38 <sup>th</sup> College foundation day at New Auditorium building  |
| 10 | 30.12.2021 | Health camp for students, faculties and staff of Nandinagar campus, Bidar organized by Vijaya Hospital, Gumpa, Bidar   |
| 11 | 24.02.2022 | “Control of Elephantiasis” at Health Centre, Veterinary College, Nandinagar Campus, Bidar organized by Community Health Centre, Kamthana   |

## VETERINARY COLLEGE, SHIVAMOGGA

| # | Date       | Activity  |
|---|------------|---|
| 1 | 29.03.2021 | International women's day celebration at Veterinary College Shivamogga. The Chief guest of the occasion Shri Basappa Gowda, Advocate inaugurated the program and spoke on the different laws to protect women at work place. The incharge Dean Dr. Ganesh Udupa presided over the programme, In this the program the women employees, including the hostel workers of the campus were specially recognized with a complement for their untiring services to the Institution. The girl's students of the college and the women staff gave entertainment programs in the form of skit and group songs. Dr. Lakshimishree welcomed the guests and audience, Dr Jayashree. R proposed vote of thanks, Dr Kavitha Rani was the master of ceremony. Overall 200 employees and students of the campus were benefitted by this program. |

## VETERINARY COLLEGE, GADAG

| # | Date                           | Activity   |
|---|--------------------------------|--|
| 1 | 05.06.2021                     | Celebration of World Environment Day: World Environment Day (WED) was celebrated on 5 <sup>th</sup> , June 2022 at VCG by planting the saplings in the college premises by Dean, Faculty and Staff of the college.   |
| 2 | 15.08.2021                     | 75 <sup>th</sup> Independence day was celebrated in VCG : 75th Independence Day was celebrated at VCG. Dr. R. Nagaraja, Dean, VCG hoisted the National Flag. Dean addressed the gathering and stressed upon the importance of Independence Day. Teaching and non-teaching staff attended the event.  |
| 3 | 25.09.2021                     | Celebration of 5 <sup>th</sup> Foundation Day of Veterinary College, Gadag: 5 <sup>th</sup> Foundation Day of Veterinary College, Gadag was celebrated on 25-09-2021. Dr. S.S. Patil, Deputy Director, Veterinary Polyclinic, Gadag inaugurated the event. Dr. R. Nagaraja, Dean, VCG presided on the occasion.  |
| 4 | 02.10.2021                     | Gandhi Jayanthi was celebrated at Veterinary College, Gadag: Birth anniversary of Mahatma Gandhi ji was celebrated on 02-10-2021 at Veterinary College, Gadag. A campus cleaning drive led by Dean, accompanied by faculty and staff of the college campus.  |
| 5 | 28.10.2021.                    | Special Programme on the eve of Kannada Rajyotsava : A special programme "Maatad Maatad Kannda" was organized at Veterinary College, Gadag on 28-10-2021. The event involved recital of Kannada language patriotic songs written by famous Kannada poets. The event was attended by over 200 people including students, faculty and staff of the college at the same time.   |
| 6 | 01.11.2022                     | Celebration of Kannada Rajyotsava at Veterinary College, Gadag : Kannada Rajyotsava was celebrated on 01-11-2022 with great enthusiasm at Veterinary College, Gadag. The Programme was presided over by Dr. R. Nagaraja, Dean, Veterinary College, Gadag. A special lecture was delivered by a famous kannada laureate of the district Mr. Rajendra S. Gadad, Chairman, District Childrens' Literature Council. Students, faculty and staff of the college participated actively in the event. |
| 7 | 26.01.2022                     | Republic day was Celebrated at Veterinary College, Gadag. Dr. R. Nagaraja, Dean, VCG hoisted the National Flag and addressed the gathering. Students, Teaching and non-teaching staff participated in the event.   |
| 8 | 21.06.2021<br>to<br>07.02.2022 | Many faculty and staff of Veterinary College, Gadag were Deputed to Covid - 19 RTPCR Diagnostic lab GIMS Gadag as a Scientist (Corona Warrior). Dr. Vijayakumar Unki, Dr. Pradeep B. S., Dr. Santosh Sajjan, Dr. Pradeep Chawhan, Dr. Rashmi L., Dr Prasanna S B and Dr M M Nekar, Mr. Satish Rajput, Mrs. Seema Basavaradder.   |

## INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KUDIGE

| # | Date       | Activity   |
|---|------------|--|
| 1 | 07.03.2022 | World Wildlife Day Celebration by organizing Competations to School Children |

## ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMAKURU

| # | Date       | Activity                                 |
|---|------------|--|
| 1 | 14.04.2021 | Celebration of Dr. B.R Ambedkar Jayanthi |
| 2 | 27.04.2021 | Celebration of World Veterinary Day      |
| 3 | 05.06.2021 | Celebration of Environment Day           |
| 4 | 15.08.2021 | Celebration of Independence day          |
| 5 | 02.10.2021 | Celebration of Gandhi Jayanthi           |
| 6 | 01.11.2021 | Celebration of Karnataka Rajyotsava.     |
| 7 | 14.11.2021 | Celebration of Children's Day            |
| 8 | 01.12.2021 | Celebration of World AIDS Day            |
| 9 | 26.01.2022 | Celebration of Republic Day              |

## ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI

| #  | Date       | Activity  |
|----|------------|---|
| 1  | 10.04.2021 | Celebrated first year students 'Freshers Day' at AHP campus, PSI Tadas and RFO Dundasi, Students, Teaching and Non-Teaching faculty of the institute were actively participated |
| 2  | 14.04.2021 | Celebrated Ambedkar Jayanti for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated   |
| 3  | 14.05.2021 | Celebrated Basava Jayanti for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated   |
| 4  | 05.06.2021 | Celebrated Environmental Day for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon and Forest Officers Dundasi actively participated                                |
| 5  | 15.08.2021 | Celebrated Independence Day for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated   |
| 5  | 02.10.2021 | Celebrated Mahatma Gandhi Jayanti for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated   |
| 6  | 20.10.2021 | Celebrated Valmiki Jayanti for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated  |
| 7  | 01.11.2021 | Celebrated Kannada Rajyotsava for which staff and Students of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated  |
| 8  | 22.11.2021 | Celebrated Kanaka Dasa Jayanti for which staff and Students of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated   |
| 9  | 30.11.2021 | Conducted Mass vaccination to eligible students and staff of the institute on 30 <sup>th</sup> November-2021<br>By staff of Primary Health Center, Tadas                        |
| 10 | 30.12.2021 | Celebrated Republic Day for which staff of Animal Husbandry Polytechnic, Kunnur, Shiggaon actively participated   |
| 13 | 04.03.2022 | Celebrated First year students Freshers Day at AHP campus   |

## ANIMAL HUSBANDRY POLYTECHNIC, DORNAHALLY-YADGIR

| # | Date       | Activity  |
|---|------------|---|
| 1 | 14.04.2021 | Ambedkar Jayanti celebration at AHP- Dornahally in presence of Principal and Students         |
| 2 | 14.05.2021 | Basava Jayanti celebration at AHP- Dornahally in presence of Principal and Students           |
| 3 | 15.08.2021 | Independence Day Celebration at AHP- Dornahally in presence of staff and students             |
| 4 | 10.09.2021 | Celebration of Ganesh Chaturti  |
| 5 | 17.09.2021 | Kalyan Karnataka Vimochana Diwas at AHP- Dornahally in presence of staff and students         |
| 6 | 02.10.2021 | Gandhi Jayanti and Shramadan at AHP-Dornahally in presence of Principal and Students          |
| 7 | 20.10.2021 | Valmiki Jayanti celebration at AHP- Dornahally in presence of Principal and Students          |
| 8 | 01.11.2021 | Karnataka Rajyostava day celebration at AHP- Dornahally in presence of Principal and Students |
| 9 | 26.01.2022 | Republic Day celebration at AHP- Dornahally in presence of staff and students.                |

## INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

| # | Date                            | Activity   |
|---|---------------------------------|--|
| 1 | 25.06.2020                      | Scientists participated in Internal Technical Committee meet as per instructions of the Director, IAH&VB, Bengaluru at IAH&VB, Bengaluru |
| 2 | 21.01.2021<br>to<br>23.01.2021  | Scientists carried out technical scrutiny at IAH&VB, Bengaluru   |
| 3 | 27.01.2021<br>and<br>28.01.2021 | Carried out technical scrutiny at IAH&VB, Bengaluru  |
| 4 | 02.02.2021                      | Carried out STD screening of all breeding animals of the Khillar Breeding Station, Bankapura, Shiggaov taluk & Haveri district           |
| 5 | 06.02.2021                      | Carried out STD screening of all breeding animals of the Khillar Breeding Station, Bankapura, Shiggaov taluk & Haveri district           |
| 6 | 19.03.2021                      | Carried out financial bid opening of eProc. 55 at IAH&VB, Bengaluru  |

## 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> |  |                              |                          |                     |                     |                               |
| VGO                                  | Diagnostic methods for evaluation of gonadectomy status in dogs  | SCSP Grants, GoK             | 1.00                     | 2020                | 2021                | A. Sahadev                    |
| LPT                                  | High Resolution Genome Based Tracing of Antimicrobial Resistant <i>Escherichia coli</i> in Pork production chain to identify the Critical Control Points: A One Health Systems Study | DBT BIRAC                    | 62.00                    | 2019                | 2021                | S. Wilfred Ruban              |
| PSc                                  | Effect of seafood industry waste in poultry feed on performance of Broiler and Giriraja chicks   | SCSP Grants, GoK.            | 3.06                     | 2019                | 2021                | Jayanaik                      |
| PSc                                  | Evaluation of the Effect of Fibrolytic enzymes on rumen <i>In vitro</i> gas production and <i>In vitro</i> dry matter digestibility of various fodders                               | Zeus Biotech Pvt Ltd, Mysuru | 1.50                     | 2019                | 2022                | Malathi, V.                   |
| <b>VETERINARY COLLEGE, BIDAR</b>     |  |                              |                          |                     |                     |                               |
| LFC                                  | Comparative study on enhancement of reproductive performance of Deoni cattle using progesterone releasing intra vaginal devices and traditional breeding techniques                  | SCSP/ TSP Grants             | 1.50                     | 2020                | 2021                | Prashant Waghmare             |
| AGB                                  | To study the association between plumage colour and egg production performance in Desi birds   | SCSP Grants                  | 0.50                     | 2020                | 2021                | Shrikant Dodamani             |

|                                       |   |                              |        |      |      |                          |
|---------------------------------------|---|------------------------------|--------|------|------|--------------------------|
| VSR                                   | Ultrasonographic evaluation of surgical disorders in large animals  | SCP/TSP                      | 0.50   | 2020 | 2021 | Bhagavantappa, B.        |
| VSR                                   | Management of tibiotarsal fractures in avians   | KVAFSU, Bidar                | 0.50   | 2019 | 2021 | Jahangirbasha, D.        |
| VGO                                   | Efficacy of herbal formulation in anoestrus dairy animals   | M/s. RP Pvt. Ltd., Ahmadabad | 1.00   | 2020 | 2022 | Bijurkar, R.G.           |
| VGO                                   | Effect of serum gonadotrophin, estrus goat serum and estradiol 17 $\beta$ on <i>in vitro</i> maturation of goat oocytes | KVAFSU, Bidar                | 0.50   | 2019 | 2022 | Malasri, G.              |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |   |                              |        |      |      |                          |
| VPE                                   | Detection of extended spectrum beta lactamase (ESBL) producing <i>E. coli</i> isolates from diverse origin              | SCSP/TSP Grants, GOK         | 0.24   | 2020 | 2021 | Prashanth. S. Bagalakote |
| VPB                                   | Studies on Identification of Host Range of Haemaphysalis Species of Ticks In Shivamogga District of Karnataka           | SCSP/ TSP Grants             | 0.65   | 2018 | 2021 | Anantha Krishna, L.R.    |
| VPB                                   | Detection of genes involved in biofilm formation in Lactobacillus isolates from Malnad gidda cattle                     | SCSP/ TSP Grants             | 0.40   | 2019 | 2021 | Anantha Krishna, L.R.    |
| VPB                                   | Evaluation of Antimicrobial activity of Lactic Acid Bacteria (LAB) isolated from Malnad gidda breed of cattle           | SCSP/ TSP Grants             | 0.23   | 2020 | 2021 | Anantha Krishna, L.R.    |
| VAE                                   | Livestock Support and Extension Activities at Davanagere Sujala-III   | World Bank                   | 125.63 | 2014 | 2019 | K.C. Veeranna            |
| ANN                                   | Effect of supplementation of pre fermented urea molasses to cattle feed on rumen kinetics- A In vitro study             | KVAFSU, Bidar                | 0.30   | 2019 | 2020 | Manju, G.U.              |
| VAN                                   | Development of nanoemulsion based tissue preservatives  | KVAFSU, Bidar                | 0.15   | 2022 | 2022 | Lakshmishree, K.T.       |

|  |   |                             |       |      |      |                      |
|--|---|-----------------------------|-------|------|------|----------------------|
| VMD                                    | Clinical and laboratory diagnostic studies on Pasteurellosis in ruminants   | TSP Grant                   | 0.50  | 2020 | -    | Suresh Patel Revanna |
| LFC                                    | Role of fodder cowpea genotypes as an intercrop in Hybrid Napier fodder crop under different planting designs               | Dept of Social welfare, GoK | 0.25  | 2020 | -    | Venkatesha, M.M.     |
| LFC                                    | Effect of organic manures on growth and yield of Hybrid Napier (CO-4) fodder  | KVAFSU, Bidar               | -     | 2018 | 2021 | Venkatesha, M.M.     |
| <b>VETERINARY COLLEGE, HASSAN</b>      |   |                             |       |      |      |                      |
| LPT                                    | Study the effect of Lactoferrin content on keeping quality of paneer using indigenous dairy cattle milk in Hassan District  | SCSP                        | 1.20  | 2020 | 2021 | Devaraja Naika, H.   |
| LFC                                    | Establishment of Micro enterprises on small scale Poultry   | NABARD Bengaluru            | 10.17 | 2020 | 2022 | B.N. Suresh          |
| VSR                                    | Development of surgical apparatus in the department of VSR  | KVAFSU, Bidar               | -     | 2020 | 2022 | B.R. Balappanavar    |
| VSR                                    | Studies on tube pericardiostomy in cattle   | KVAFSU, Bidar               | -     | 2020 | 2022 | B.R. Balappanavar    |
| <b>VETERINARY COLLEGE, GADAG</b>       |   |                             |       |      |      |                      |
| LFC                                    | Comparative study on growth performance of Giriraja and Raja- II birds in Gadag region                                      | SCSP                        | 0.20  | 2020 | 2021 | Dharmaraj, G.Y.      |
| VMC                                    | Isolation and phenotypic characterization of extended spectrum beta lactamase producing (ESBL) <i>E.coli</i> from ruminants | TSP-GoK                     | 0.50  | 2020 | 2021 | Rashmi, L.           |
| <b>COLLEGE OF FISHERIES, MANGALURU</b> |   |                             |       |      |      |                      |
| FPT                                    | Improved methods of dry fish processing   | CDA, Mangaluru              | 3.40  | 2021 | 2022 | B. Manjanaik         |
| FPT                                    | Improved methods of dry fish processing and value added fish products and marketing opportunities                           | KAPPEC, GoK, Bengaluru      | 1.20  | 2021 | 2022 | B. Manjanaik         |



|   |  |                                      |       |      |      |                   |
|---|--|--------------------------------------|-------|------|------|-------------------|
| AAHM  | Identification, cloning, characterization and assessment of the potentiality of an Aeromonas phage endolysin as an antimicrobial agent against multi drug resistant Aeromonas hydrophila | DST-SERB                             | 19.20 | 2019 | 2021 | Pallavi Baliga    |
| AEM   | Establishment of floating solar panel in the sea off Mangaluru coast near New Mangaluru Port Trust (NMPT)  | Blue Energy Pvt Ltd Mangaluru        | 4.50  | 2021 | -    | M.T. Lakshmipathi |
| AEM   | Bathymetric Survey of sand dunes in the CRZ region of Nethravathi and Phalguni rivers  | Dept of Mines and Geology, Mangaluru | 1.50  | 2021 | -    | M.T. Lakshmipathi |
| AEM   | Evaluation of the impacts of increased timings of the operation of the main pipe conveyor (MPC) from Nandihalli yard to JSW plant on wildlife  | EMPRI Bengaluru                      | 0.50  | 2021 | -    | M.T. Lakshmipathi |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b>         |  |                                      |       |      |      |                   |
| LRIC (Deoni)  | Field performance recording of Deoni cattle in Bidar District  | National Project on Bovine Breeding  | 60.00 | 2017 | 2021 | Vivek, M. Patil   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b> |  |                                      |       |      |      |                   |
| FRIC, Hebbal  | Evaluation of Insectifii (Block Soldier Fly) protein feed on growth and survival of carps  | TSP Grants, KVAFSU, Bidar            | 1.44  | 2021 | 2021 | K.B. Rajanna      |

## ABSTRACT OF COMPLETED RESEARCH PROJECTS

| #            | <i>College /Institute</i>                                    | <i>Research Projects</i> |                           |
|--------------|--|--------------------------|---------------------------|
|              |  | <i>Total Nos.</i>        | <i>Amount (Rs. Lakhs)</i> |
| 1            | Veterinary College, Bengaluru                                | 4                        | 67.56                     |
| 2            | Veterinary College, Bidar                                    | 6                        | 4.50                      |
| 3            | Veterinary College, Shivamogga                               | 10                       | 128.35                    |
| 4            | Veterinary College, Hassan                                   | 4                        | 11.37                     |
| 5            | Veterinary College, Gadag                                    | 2                        | 0.70                      |
| 6            | College of Fisheries, Mangaluru                              | 6                        | 30.30                     |
| 7            | Livestock Research and Information Center, Hallikhed, Bidar  | 1                        | 60.00                     |
| 8            | Fisheries Research and Information Center, Hebbal, Bengaluru | 1                        | 1.44                      |
| <b>Total</b> |  | <b>34</b>                | <b>304.22</b>             |

## b) Research Highlights

### VETERINARY COLLEGE, BENGALURU

#### **Title: Diagnostic methods for evaluation of gonadectomy status in dogs.**

Canine specific AMH kits were used to know the gonadectomy status in dogs. The serum AMH values obtained for intact male and female dogs were  $16.20 \pm 1.44$  and  $5.14 \pm 0.54$  ng/mL, respectively. Whereas, the values in castrated male dogs was  $0.58 \pm 0.05$  ng/mL and  $0.26 \pm 0.02$  ng/mL in ovariectomised female dogs.

The AMH level recorded in cryptorchid dogs was  $24.90 \pm 0.79$  ng/mL and  $3.20 \pm 1.54$  ng/mL in dogs with remnant ovarian syndrome.

AMH is a highly reliable biomarker to ascertain the gonadectomy status in dogs and based on the research results obtained the cut-off value suggested is  $0.58 \pm 0.05$  and  $0.26 \pm 0.02$  ng/mL, respectively for male and female dogs without gonads.

#### **Title: High Resolution Genome Based Tracing of Antimicrobial Resistant *Escherichia coli* in Pork production chain to identify the Critical Control Points: A One Health Systems Study**

Socio-demographic and Antimicrobial usage (AMU) pattern in the pig farms was found to have direct influence on the occurrence of Antimicrobial resistant (AMR) *E. coli* in host related and environmental samples. However resistance could also be observed for antibiotics that have not been used in the farm implicating the role of environment and human handlers in dissemination of AMR in the farm settings.

AMU records need to be maintained to assess the impact of AMU on occurrence of AMR in the pig farms, which could not be linked in this study.

Administration of antibiotics by farm workers / owner in the absence of Veterinarian in the farms under study might have resulted in use of inappropriate or sub-therapeutic doses which could be considered as the major reason behind high occurrence of AMR *E. coli* in this study.

Occurrence of higher AMR *E. coli* in kitchen/ hotel waste is a major concern since the pigs are directly fed untreated hotel / kitchen waste. Hence, proper treatment of hotel waste (heating/ boiling) before feeding to the pigs may reduce the potential of hotel waste being the major source of AMR in pork production chain.

Occurrence of high MDR in *E. coli* isolates is a major concern as it indicates the potential of higher dissemination between different ecosystems, which could be a serious public health issue.

Manure from the farm was utilized for agricultural crop production within the farm. However, antibiotic residues in manure might contaminate the surrounding soil and water bodies resulting in persistence of ARGs within the farm premises. Hence, research on appropriate manure treatment before land application shall be prioritized.

#### **Title: Effect of seafood industry waste in poultry feed on performance of Broiler and Giriraja chicks**

Investigation of the effect of co-dried fish silage (CFS) in poultry feed on performance of broiler and giriraja chicks, and also comparison of the nutritional quality of prepared poultry feed with commercial feed was done. The sensory evaluation of meat was carried to check the eating quality. The silage was prepared from reef cod (*Epinephalus diacanthus*) fish waste using 3.5% (w/v) formic acid and propionic acid mixture (1:1 ratio). The biochemical parameters such as PV, TBARS and TMS of the fish silage was estimated as  $8.97 \pm 0.09$  meq. Malondialdehyde / kg of fat,  $48.25 \pm 0.09$  mg / 100 g and  $14.28 \pm 0.06$  mg / 100 respectively. The silage was mixed with crushed corn powder in the ratio of 85:15 (CFS had 39.51% protein). 120 numbers of broiler chicks were randomly assigned to 4 dietary treatments (C-

Control diet, T1- Diet with 5% CFS, T2-Diet with 10% CFS and T3-Diet with 15% CFS). Significant differences were found with weekly feed intake, body weight gain, FCR in broiler and Giriraja Chicks. The dressing yield% was higher in broiler (T1) group and Giriraja's (T2) group. The treatment group-T1 (5% CFS) of broiler and giriraja chicks had higher BPEF than the other groups. The prepared diets containing CFS showed better storage stability (>2 months) than other diets with lower values of PV, FFA, TPC, fungal count. The present study was concluded that the 10% CFS could be used as un-conventional protein source for poultry rearing without affecting the growth performance of chicks and eating quality of meat.

**Title: Evaluation of the Effect of Fibrolytic enzymes on rumen *Invitro* gas production and *Invitro* dry matter digestibility of various fodders**

Study was conducted to evaluate the effect of Fibrolytic enzyme/s on the dry matter digestibility and rumen *Invitro* gas production using cattle Rumen liquor. Supplementation of two enzymes, Fiberzyme and Rumiyeast to Alfa alfa fodder increased Potential gas production and Metabolisable energy, but did not cause any significant change in Rate of gas production and Time at half asymptomatic gas production. Silage supplemented with Fiberzyme and Rumiyeast caused significant increase in Potential gas production, ME and rate of gas production. Fiberzyme and Rumiyeast addition at both the levels to maize fodder increased only potential gas production. For maize fodder (80%) + paddy straw (20%) and maize fodder (80%) + wheat straw (20%), Fiberzyme was better than Rumiyeast, since all the indices were improved with Fiberzyme. Supplementation of Fiberzyme and Rumiyeast to 70% CO<sub>3</sub> + 30% paddy straw improved potential gas production and not ME. Fiberzyme showed better result as compared to Rumiyeast when supplemented to Paddy straw, by increasing both potential gas production and Rate of gas production. These results strongly indicate that both the enzymes tested are proven effective in increasing the digestibility of the fodders and their combinations tested in this study.

**VETERINARY COLLEGE, BIDAR**

**Title: Comparative study on enhancement of reproductive performance of Deoni cattle using progesterone releasing intra vaginal devices and traditional breeding techniques**

Conception rate in treatment group was 80 per cent and in Control Group was 20 per cent.

**Title: To study the association between plumage colour and egg production performance in Desi birds**

This study helps the farmers for early selection of birds for egg production

Brown plumage color birds produced more eggs compared to black and black with yellow tinge

The shape index of Black with yellow tinge was higher compared to other two plumage color

**Title: Ultrasonographic evaluation of surgical disorders in large animals**

Ultrasound technique is becoming increasingly important in animal medicine which aids in diagnosis of diseases as well as a useful therapeutic tool.

Its known that the use of ultrasound technology is critical in current animal sciences, since ultrasound examinations are now have become a routine component of diagnostic workups in disease in investigation.

Hence in the present study it was used for diagnosis of some of important disease in large animals like TP, TRP, Reticular abscess, DH, Cystitis, Pervious Urachus, Oesophageal obstruction, FNAC, Liver abscess, Teat obstruction, and hernia in calves.

USG in large animal is complimentary to the radiographic findings and it gives clear real time tissue/organ

#### **Title: Management of tibiotarsal fractures in avians**

Intramedullary pin of 1.2 mm and titanium non locking reconstructive bone plate of 1.5 mm were used for repair of tibiotarsus fracture in pigeon.

The tissue damage was less as closed reduction was used for IMP. Whereas in bone plating open reduction was used this led to more tissue dissection.

Radiological and clinical study showed healing of fracture within 21 days in both the techniques.

Complications like bone breakage during surgery was observed due to brittleness of bone

#### **Title: Efficacy of herbal formulation in anoestrus dairy animals**

Among delayed pubertal heifers, 90% (9/10) of animals showed estrus following feeding of estrona powder compared to only 10 % (1/10) in control animals. Whereas among postpartum cows fed with estrona powder, about 66.67% (4/6) animals showed estrus and about 50% (2/4) animals got conceived following insemination compared to 16.67% (1/6) estrus induction and no conception in control animals

Biochemical profile in delayed puberty group: No significance ( $p \geq 0.05$ ) difference noted either between the groups or between the days within the groups for phosphate and calcium. However, in the treatment group the glucose level significantly ( $p \leq 0.05$ ) increased from day 5<sup>th</sup> onwards compared to day 0 of the treatment.

Hormonal profile in delayed puberty group: Serum progesterone levels significantly increased on 15<sup>th</sup> day compared to day 0 in both treatment and control groups suggestive of cyclicity.

Biochemical profile in postpartum anestrus group: Serum glucose concentration vary significantly in control group whereas no significant difference observed in treatment group. The serum cholesterol did not vary significantly in both the groups. The mean serum calcium, phosphorus vary significantly in treatment group. However, there is no significant difference observed in control group.

Hormonal profile in postpartum anestrus group: Serum progesterone level were at basal levels in control group whereas non-significant increase in the serum progesterone levels observed in treatment group, which is suggestive of cyclicity.

#### **Title: Effect of serum gonadotrophin, estrus goat serum and estradiol 17 $\beta$ on *in vitro* maturation of goat oocytes**

A total 80 ovaries were collected from slaughterhouse and total number of oocytes recovered were 359 from slicing technique. Number of oocytes recovered per ovary was  $8.79 \pm 0.77$ .

Recovered oocytes were observed under stereozoom microscope and classified based on number of layers as grade A,B,C, D and E. Only grade A, B and C was considered under study.

Four different maturation media were made based on hormones used.

|         |   |
|---------|---|
| Control | TCM-199+ Gentamicin @ 50 µg/ml                                  |
| Group 1 | TCM-199+ Gentamicin @ 50 µg/ml + Estradiol 17β @ 1µg/ml         |
| Group 2 | TCM-199+ Gentamicin @ 50 µg/ml + Serum gonadotrophin @ 20 IU/ml |
| Group 3 | TCM-199+ Gentamicin @ 50µg/ml + Estrus Goat Serum 10%           |

Graded 6 oocytes were incubated in 50µl droplets of different maturation media at 38.5°C, 5% CO<sub>2</sub> and 90-95% RH for 27 hrs in CO<sub>2</sub> incubator.

Assessment of oocyte maturation was done based on the degree of cumulus cell expansion and only degree 1 and 2 COCs were considered as matured oocytes.

| <i>Maturation media</i> | <i>Maturation rate (percentage mean)</i> |
|-------------------------|--|
| Control                 | 55.28±0.05 <sup>a</sup>                  |
| Group 1                 | 76.39±0.03 <sup>b</sup>                  |
| Group 2                 | 78.06±0.02 <sup>b</sup>                  |
| Group 3                 | 78.06±0.02 <sup>b</sup>                  |

Note: Mean bearing different (a, b) superscript in the column differ significantly (p≤0.05)

The statistical data reveal that among different groups under study, maturation rate was significantly (p≤0.05) higher in Group 1,2 and 3 from control group and there was no difference between the Group 1,2 and 3.

To conclude, from the present study supplementation of Estradiol 17β, Serum gonadotrophin and Estrus goat serum to basic maturation medium are equally required for improving *in vitro* maturation of goat oocytes. However, further study is required.

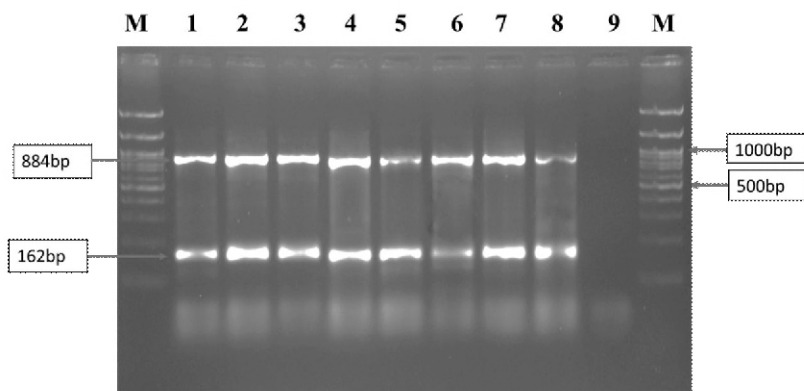
## VETERINARY COLLEGE, SHIVAMOGGA

### Title: Detection of extended spectrum beta lactamase (ESBL) producing *E. coli* isolates from diverse origin

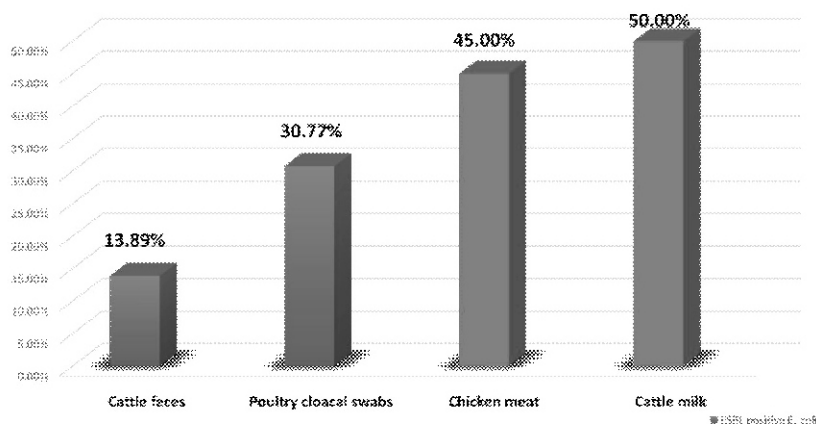
Overall prevalence of ESBL producing *E.coli* isolates was 31.87%, in which highest prevalence found in Cattle milk (50%) and lowest in cattle feces (13.89%).

Higher ESBL producing isolates were found in chicken meat and cattle milk (20/42 = 47.62%) compared to cattle fecal and chicken cloacal swabs (9/49 = 18.37%)

Presence of higher ESBL producing *E.coli* isolates (29 out of 91) is an alarming issue due to increase in drug resistance by bacteria.



**Agarose gel picture showing duplex PCR result for *uidA* & *uspA* genes of *E. coli***  
 Lane M: 100 bp DNA marker; Lane 1: *E. coli* positive control (ATCC isolate); Lanes 2-8: CK31E, CK32E, CK36E, CK41E, ML 02E, ML 11E, ML 14E showing 162 bp and 884 bp bands; Lane 9: Negative Control



### Prevalence of ESBL *E. coli* isolates from different sources

#### Title: Studies on Identification of Host Range of Haemaphysalis Species of Ticks in Shivamogga District of Karnataka

Tick samples were collected from villages surrounding to Shivamogga in three different time scale

Segregation of ticks based on morphology

Isolation of Genomic DNA from ticks Haemaphysalis

The host identified as Cattle

#### Title: Detection of genes involved in biofilm formation in Lactobacillus isolates from Malnad gidda cattle

Standardized the procedure for Isolation of Lactobacillus isolates from milk of Malnad gidda cattle

Genomic DNA isolated

Amplification of biofilm gene

#### Title: Evaluation of Antimicrobial activity of Lactic Acid Bacteria (LAB) isolated from Malnad

## Title: Livestock Support and Extension Activities at Davanagere Sujala-III

One production unit of milk by-products at Sattur village was established  
Two hatchery units at Devipura and Honnenahally village were established  
Twenty Breeding rams were introduced at 7 watershed villages in Harapanahally and Jagallur Taluks

## Title: Effect of supplementation of pre fermented urea molasses to cattle feed on rumen kinetics- An *In-vitro* study

The rumen invitro gas production (RIVGP)<sup>24</sup> (ml/200mg DM) was found to be significantly higher ( $P < 0.001$ ) in CFM supplemented with 1 day (65.41) and 2 day (64.07) fermented urea group and lowest value was recorded in 8 day (58.37) fermented urea supplemented groups. The Metabolisable Energy (ME, MJ/kg DM) value was also found to be significantly higher ( $P < 0.01$ ) in CFM, supplemented with 1 day (12.77) and 2 day (12.56) fermented urea group and lowest value was recorded in CFM supplemented with 8 day (11.67) fermented urea group.

### Kinetics of gas production

The RIVGP<sup>96</sup> (ml/200mg DM) was found to be highest ( $P < 0.001$ ) in CFM supplemented with 2 day pre-fermented urea group (77.67) and lowest gas production was recorded in 3<sup>rd</sup> (66.37) 4<sup>th</sup> (65.82), 5<sup>th</sup> (65.68) and 8<sup>th</sup> (65.72) day fermented urea groups.

Rapidly produced gas (a, ml/200mg DM) was higher in 2<sup>nd</sup> day (9.73) pre-fermented urea supplemented groups and lowest was in 6<sup>th</sup> day (2.78) pre fermented urea supplemented group.

Gas volume from the insoluble but fermentable fraction (b, ml/200mg DM) was highest in 2<sup>nd</sup> day (76.35) fermented urea supplemented group and lowest was recorded in 5<sup>th</sup> day (65.35) fermented urea supplemented group.

Rate of gas production (k, h-1) found to be similar in all the groups with values ranging from 0.09 to 0.10. The time at half asymptotic gas production ( $t^{1/2}$ ) value found to be 7.31, 8.00, 7.11, 6.85, 7.27, 6.88, 7.12 and 6.85 respectively for 1,2,3,4,5,6,7 and 8 day pre fermented urea supplemented groups respectively.

## Title: Development of nanoemulsion based tissue preservatives

Standardization of the methodology for preparation of nanoemulsions by low energy methods Oil-in-Water nanoemulsions prepared using phenoxyethanol and glycerol as surfactant. Initially, appropriate amounts of surfactants and oils were mixed under mild stirring at room temperature for 30 min. constant magnetic stirring.

Characterization of the prepared nanoemulsions using using the Malvern Zetasizer NanoZS analyzer and the results were as follows

|                                    | Average Particle size (d.nm) | Polydisparsity Index |
|------------------------------------|------------------------------|----------------------|
| Phenoxyethanol based nanoemulsions | 12.26                        | 0.588                |
| Formalin based nanoemulsions       | 296.0                        | 0.540                |

Isolation of Lactobacillus isolates from milk/faeces of Malnad gidda cattle  
Genomic DNA isolated and confirmation by genus specific PCR  
Moderate antibacterial activity is reported



### **Title: Clinical and laboratory diagnostic studies on Pasteurellosis in ruminants**

Blood samples from Clinical cases suspected for the Pasteurellosis based on clinical signs were collected and screened for the presence of Pasteurella organism based on staining and identification and culturing and isolation. A total of 27 samples (blood/nasal swabs) from sheep and cattle with clinical respiratory signs were collected examined for the presence of *Pasteurella* spp. Among them, only 5 nasal swab samples from sheep were positive by Grams staining and typical biochemical tests (Oxidase +ve, Catalase -ve, Indole +ve, Methyl red -ve, Voges Proskauer -ve, Citrate test -ve). The presence of Pasteurella species in these 5 samples were confirmed by Polymerase chain reaction.

### **Title: Role of fodder cowpea genotypes as an intercrop in Hybrid Napier fodder crop under different planting designs**

Among the different cultivars of bajra napier hybrid, the cultivar Taiwan Super Napier-1 performed better with respect to growth and yield as well as the uptake of nutrients compared to cultivars CO-5 and Dharwad Hybrid Napier-6. Whereas, in case of fodder cowpea genotypes, MFC-09-1 performed better with respect to growth, yield and quality as well as the uptake of nutrients compared to Cowpea local.

Among different planting patterns, paired row system of planting found significantly superior over normal planting by registering higher growth attributes, fodder yield and quality parameters.

The cultivar Taiwan Super Napier-1 with fodder cowpea genotype MFC-09-1 found significantly superior over cultivars CO-5 and Dharwad Hybrid Napier-6 with different genotypes of fodder cowpea by registering higher growth attributes, fodder yield and quality parameters

Higher soil available nitrogen, phosphorous, potassium, calcium and magnesium was recorded in cultivar Taiwan Super Napier-1 with fodder cowpea genotype MFC-09-1 compared to other cultivars and fodder cowpea local.

Cultivar Taiwan Super Napier-1 with fodder cowpea genotype MFC-09-1 recorded higher net returns (1,00,509 ha<sup>-1</sup>) and gross returns (1,81,860 ha<sup>-1</sup>).

### **Title: Effect of organic manures on growth and yield of Hybrid Napier (CO-4) fodder**

Application of different source organic nutrient sources resulted in significant influence on growth components of at all the stage of crop growth, among the different organic nutrient, vermicompost recorded significantly taller plants as compared to other organic sources and 100 per cent RDF (Recommended dose of fertilizer) but significantly on par with poultry manure. Similar trend was observed in number of tillers and number of leaves per tillers. Number of leaves plant<sup>-1</sup> differed significantly due to different combination of organic and inorganic nutrient sources. Significantly maximum number of leaves plant<sup>-1</sup> (467.8) was noticed with T<sub>5</sub> as compared to other combinations but significantly on par with T<sub>3</sub> (409.8). However, minimum number of leaves plant<sup>-1</sup> (265.1) was observed in T<sub>1</sub>.

Similar trend was observed in number of tillers and number of leaves per tillers.

## VETERINARY COLLEGE, HASSAN

### **Title: Establishment of Micro enterprises on small scale Poultry**

A model backyard poultry farming unit was established at the department of Livestock Farm Complex, Veterinary College, Hassan, for training and demonstration purposes. Area slates and locally available materials were used to construct the model shed comprising a holding pen with perches for rearing 500 adult birds, a pen for natural incubation facility for 20 hens and a pen with internal partition for brooding upto 1000 chicks. Established 20 community brooding centre at selected SHG villages and distributed 10000 one day old native chicks to 223 women members. All the beneficiaries were important with skill based training on brooding and housing, preparation balanced feed, increasing scavenging feed resource base, bio security measures and vaccination for back yard birds. Through the project, the women beneficiaries gained more knowledge on native poultry rearing practices, more economic returns ( employment, income generation) and social benefits ( better nutrition and health) apart from creating many women rural poultry entrepreneurs.

### **Title: Studies on tube pericardiostomy in cattle**

Pericardiostomy was performed in eleven clinical cases of traumatic pericarditis/pericarditis affected HF/JR/ND breed of cow. Eleven cases were performed with pericardiostomy, observed serosanguinous, purulent, creamy and grey coloured foul smelling pus. Among this animals crossbreed cows are mostly affected. Death of four animals was observed after few days after the surgery. This was a good method to relieve the pressure on functioning heart, it is not a cure but helps in prolonging life of the animal.

## VETERINARY COLLEGE, GADAG

### **Title: Comparative study on growth performance of Giri raja and Raja- II birds in Gadag region**

The average wt at 8<sup>th</sup> week was 1.38 kg in Giriraja and 1.46 kg in Raja II birds.

The FCR for Giriraja birds during 8 weeks was 2.69 and for Raja II it was 2.60 indicating slightly better FCR in Raja II birds.

There was death of 3 chicks in Giriraja group and 2 chicks in Raja Group indicating better survivability of chicks in Raja II group

The final results are to be analysed and birds are handed over to dept of LFC for teaching purpose.

### **Title: Isolation and phenotypic characterization of extended spectrum beta lactamase producing (ESBL) *E.coli* from ruminants**

A total of 120 samples (30) milk, (30) mastitic milk, (30) faecal swabs from diarrheic and (30) non-diarrheic ruminants were collected. Isolation and biochemical characterisation of *E.coli* performed using specific media incorporated with antibiotic and biochemical tests. Phenotypic confirmation of ESBL producing *E.coli* was done by E- test and antimicrobial susceptibility testing of ESBL producing *E.coli* was performed by disc diffusion method using various antibiotic discs. Out of 120 samples 16 ESBL (13.3%) *E.coli* organisms have been isolated.

## COLLEGE OF FISHERIES, MANGALURU

### **Title: Identification, cloning, characterization and assessment of the potentiality of an *Aeromonas* phage endolysin as an antimicrobial agent against multi drug resistant *Aeromonas hydrophila***

Four phages targeting *A. hydrophila* were isolated. One phage vB-AhyM-AP1 was chosen for further studies

Electron microscopy indicated that the phage was a tailed phage belonging to the *Myoviridae* family (Fig 1)

Investigation of the phage indicated that it had a latent period of 40 min and a burst size of 1413PFU/ infected cell

Temperature stability studies showed that the phage vB-AhyM-AP1 was active over temperatures ranging from 4-45°C for one hour. pH stability studies indicated that the phage remained active within a pH range of 5-10 after 24 hours of incubation. Stability tests in salt solutions showed that the phage was stable at salinities ranging from 0.1-2%. The phage also showed stabilities in organic solvents when incubated for ten minutes.

Illumina Hiseq sequencing of its genome indicated that the phage vB-AhyM-AP1 was a jumbo phage with a genome size of 2, 54,490 bp and GC content of 40.3% The genome encoded 455 ORFs and 22 tRNAs (Fig 2)

The phage displayed anti-biofilm capacity (Fig 3)

The endolysin gene was identified from the phage genome using bioinformatics tools

The endolysin gene was cloned into the *E. coli* dh5 alpha cells

Further it was expressed in *E. coli* BL21(DE3) cells using a pet 32(a)+ vector (Fig 4)

The purified enzyme showed inhibition haloes on a chloroform permeabilised lawn of *A. hydrophila* (Fig 5)

pH studies indicated the enzyme to be active at pH 3-10 (>50%). The enzyme displayed maximum muralytic activity pH 4. Temperature stability studies indicated that the enzyme retained greater than 50% relative activity at temperatures from 4-100 °C

The endolysin showed excellent muralytic activity against various Gram-negative bacteria, including *E. coli*, *Salmonella paratyphi*, *Shigella dysenteriae*, *Vibrio cholera*, *Vibrio parahaemolyticus*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*

The endolysin showed biofilm preventive effects on *A. hydrophila* cultures when used in conjunction with EDTA or colistin

The endolysin displayed synergistic activity with colistin and eliminated even colistin-resistant *A. hydrophila* cells

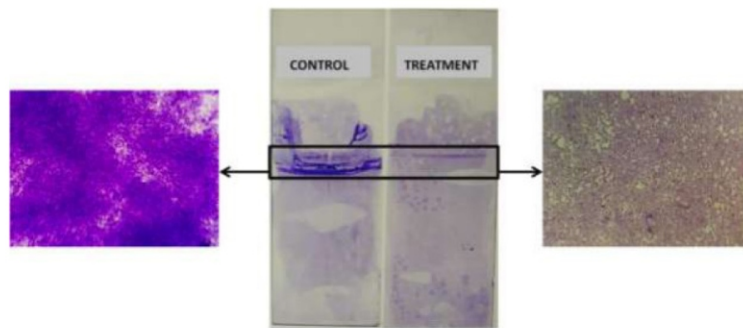
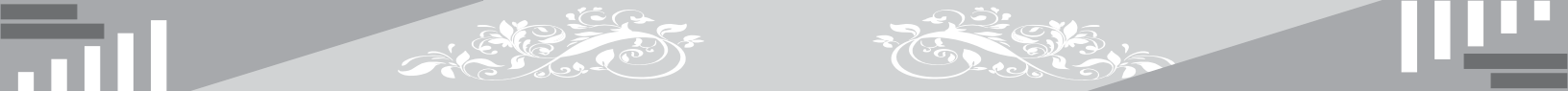


Fig 3: Biofilm degrading property of the phage

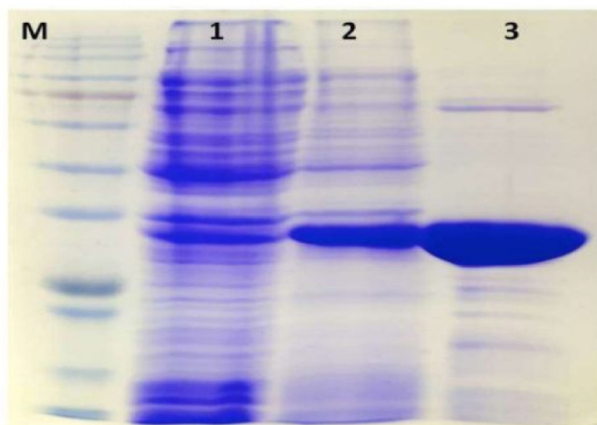


Fig 4: SDS page gel showing expression of endolysin M-Marker, Lane 1-Uninduced BL21 cells, Lane 2 Induced BL21 cells, Lane 3- purified endolysin Lys E

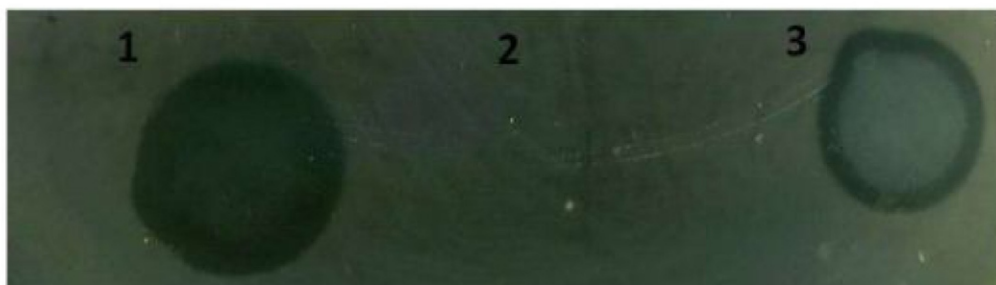


Fig 5: 1-Muralytic activity of endolysin LysE on chloroform permeabilised lawn of *A. hydrophila* , 2- Buffer control, 3- Positive control (Hen egg white lysozyme)

## LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED

### Title: Field performance recording of Deoni cattle in Bidar District

Baseline survey of Deoni cattle in Bidar district complete.  
14 villages identified for field performance recording.  
Registration camps conducted in all 14 villages for INAPH tagging.  
Field performance recording as per ICAR guidelines was completed in March 2020.  
Data tabulation under INAPH and analysis is completed.

**Title: Evaluation of Insectifii (Black Soldier Fly) protein feed on growth and survival of carps**

Karnataka Veterinary Animal and Fisheries Sciences University, Bidar sanctioned the budget under TSP grants (2020-21), Director of Research, KVAFSU, Bidar project entitled “Evaluation of Insectifii (Black Soldier Fly) protein feed on growth and survival of carps at FRIC, Hebbal”. The total budget sanctioned for the project was 1.44 lakhs utilizing this amount, to conduct the experiment and the insectifii meal was procured from M/s. Insectifii, Bengaluru to assess the proximate composition of Insectifii (BSF- Black soldier Fly). The proximate composition of BSF meal was analysed in the laboratory i.e protein 68.76%, Fat-13.29%, Fiber-4%, Moisture- 17.60%, Ash-9.91%, Carbohydrates-19.22% was obtained respectively. The BSF meal sample was sent to Central Institute of Fisheries Technology (CIFT- ICAR), Cochin to know the amino acid profile. The results are as follows Aspartic acid (4.41g/100g), Glutamic acid ( 5.92g/100g), Serine (1.83g/100g), Histidine (1.77g/100g), Glycine (2.17g/100g), Threonine (1.78g/100g), Alanine (2.77g/100g), Arginine (2.28g/100g), Tyrosine (2.81g/100g), Cystine (0.13g/100g), Valine (3.13g/100g), Methionine (0.65g/100g), Phenylalanine (1.82g/100g), Isoleucine (1.90g/100g), Leucine (3.03g/100g), Lysine (3.11g/100g), Proline (2.84g/100g)).

The experiment was carried out in 1000L FRP tanks.

The formulated feed was prepared according to Pearson square method, the insectifii meal was incorporated to feed in two different percentages (24% & 28%). The fish feed was prepared with fishmeal, rice bran, corn flour, groundnut oil cake and mineral mix for control feed. Whereas for formulated feed was prepared by using insect meal @ 24 and 28% protein replacing the fish meal to conduct the experiment.

The Rohu fingerlings were used in this study, three treatments tanks (24 & 28%) along with control with two replicates experiment was conducted. In each tank 100 Nos. of Rohu fishes were stocked (Avg 10cm in length and 20g weight), the fishes were fed with formulated feed for treatment fish and control feed for control tanks. The total days of culture was 120 days regular monthly sampling was carried out to know the growth of fishes. At the end of the 90 days the growth of fishes was recorded length 21.20cm length & weight 40.68gm (28% insect Protein ), 20.7cm length and 39.03g weight (24% insect protein), and in control 16.2 cm and weight 25.35g (Fish meal protein 24%). The growth performance of rohu fish was highest in 28% BSF protein feed compared to 24% BSF protein was observed.

BSF meal is the cheapest/alternative source protein for fish feed to reduce the cost of fish production and black soldier fly larvae (BSF) proteins are gaining rapid acceptance as high value protein ingredients in aquaculture feed formulation.

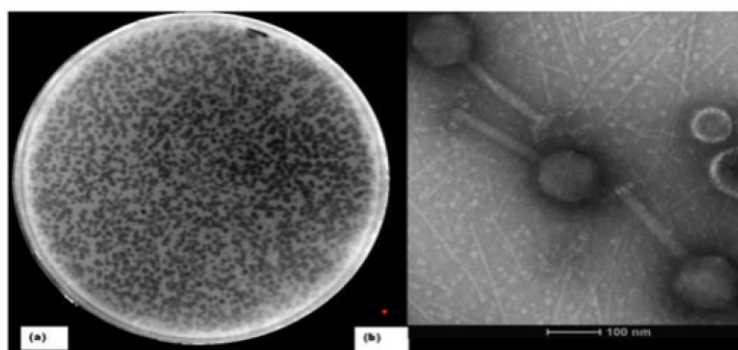


Fig 1: a) Plaque morphology of the phage b) Electron micrographs of the phage API

## 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 in teaching Anatomy  | VGST<br>GoK                                      | 30.00                    | 2013                | Girish, M.H.                  |
| VPY                                  | Immunomodulatory and Anti-oxidative effects of Nanoselenium in Wistar Albino Rats  | SCSP/TSP   | 0.90                     | 2021                | Veena, M.P.                   |
| VPA                                  | Development of point of care diagnostics for the diagnosis of theileriosis and babesiosis in cattle  | SERB   | 18.00                    | 20119               | H. Dhanalakshmi               |
| VPT                                  | Evaluation of apoptosis inducing potential of rutin loaded chitosan nanoparticles  | SCSP/<br>TSP                                     | 1.50                     | 2020                | Rashmi, R.                    |
| VPT                                  | Canine mammary cancer stem-like cells derived exosomal miRNAs : understanding the biology and developing diagnostics   | DST –<br>SERB,<br>Go I                           | 18.30                    | 2021                | Rashmi, R.                    |
| VPT                                  | Identification and characterization of DNA methylation an epigenetic marker in cancer stem cells of canine mammanry tumors                                     | SCSP/<br>TSP                                     | 0.90                     | 2022                | Rashmi, R.                    |
| VMC                                  | Indo-UK collaboration on “Chicken or eggs; Drivers of antimicrobial resistance in Poultry in India”  | DBT<br>(Indo-<br>UK),<br>GoI                     | 51.50                    | 2018                | Shrikrishna Isloor            |
| VMC                                  | National one health Program for prevention and control of zoonosis   | NCDC,<br>GoI                                     | 25.09                    | 2020                | Shrikrishna Isloor            |
| VGO                                  | Study on the efficacy of dietary supplementation of minerals, Vitamins and Antioxidant in combination, on the semen quality in infertile male dogs (NUTRICH ®) | Virbac<br>Animal<br>Health<br>India.<br>Pvt.Ltd. | 4.10                     | 2022                | Suchitra, B.R.                |
| VGO                                  | Non-Invasive pregnancy detection in Panthera Tigris tigris in fecal sample to detect PGFM using ELISA  | KVAFSU,<br>Bidar                                 | 0.30                     | 2022                | Suchitra, B.R.                |
| VSR                                  | Supracutaneous bone plating for the repair of metatarsal bone fractures in Bovines   | TSP<br>Grants                                    | 0.65                     | 2022                | B.N. Nagaraja                 |

|     |  |   |       |      |                       |
|-----|--|---|-------|------|-----------------------|
| VSR | Supracutaneous bone plating for the repair of metatarsal bone fractures in Bovines   | KVAFSU, Bidar   | 0.30  | 2022 | B.N. Nagaraja         |
| VMD | Comparative studies on chemotherapy and immunotherapy for TCC of urinary bladder in dogs   | KVAFSU, Bidar   | 0.30  | 2022 | Lathamani, V.S.       |
| AGB | Genetic polymorphism of MHC class II DRB exon 2 gene in goats of Karnataka   | SCSP  | 0.90  | 2022 | Basavraj Inamdar      |
| AGB | Expression of Heat Shock Protein genes in Goats  | SCSP  | 0.90  | 2022 | Naveen Kumar, S.      |
| AGB | Genetic evaluation of Productive and Reproductive traits in NARI Suwarna sheep   | KVAFSU, Bidar   | 0.50  | 2018 | Yathish, H.M.         |
| ANN | Effect of Zinc and Vitamin supplementation in ewes during late pregnancy and lactation on the performance of lambs   | KVAFSU, Bidar   | 0.30  | 2021 | H.S. Madhusudhan      |
| ANN | Evaluation of extruded crop residue based complete diets in Mandya Sheep   | KVAFSU, Bidar   | 0.30  | 2021 | Prabhu, T. M.         |
| LFC | Identifying nucleotide variabilities in <i>BMP-15</i> Gene of Sheep ( <i>Ovis aries</i> )  | KVAFSU, Bidar (SCSP)                                  | 0.90  | 2022 | Shankarappa Bhajantri |
| PSc | Effects of Yeast cell extract enriched with fatty acids and organic minerals on health and performance of broiler chicken exposed to heat stress.                | Alltech, USA  | 6.65  | 2021 | H.C. Indresh          |
| PSc | Effect of dietary inclusion of sodium butyrate (Butycoat) on gut health and growth performance of broilers.  | Orffa animal Nutrition, Thane                         | 1.26  | 2021 | H.C. Indresh          |
| PSc | Effect of different sulfate polysaccharides (Sea weeds- Powdered & liquid form) on growth performance, carcass characteristics and gut health in broiler chicken | M/s. SEA6 ENERGY PVT LTD and MP, NCBS-TIFR, Bengaluru | 3.74  | 2020 | Jayanaik              |
| PSc | Effect of silver Nano Particles as Disinfectant (ArgeCid) and as Additive (ArgeFeed) on Growth, Immune Status and Gut Histopathology in Broilers                 | M/s. B+H Solutions GmbH, Germany                      | 1.85  | 2021 | Jayanaik              |
| PSc | Determination of the mitigation effects of yeast cell wall extract in broilers fed diet naturally contaminated with Fusarium toxins                              | Alltech, Kentucky, USA                                | 10.08 | 2019 | Malathi, V.           |

|                                  |  |                                  |       |      |                     |
|----------------------------------|--|----------------------------------|-------|------|---------------------|
| PSc                              | Effect of yeast selenium on production performance, egg quality and selenium deposition in laying hens   | Algebra Bio Pvt. Ltd., Australia | 3.78  | 2020 | Malathi, V.         |
| PSc                              | Comparative evaluation of different binders to ameliorate the toxicological effects of multiple mycotoxins in broiler chicken  | Nutreco, Netherlands             | 11.83 | 2021 | Malathi, V.         |
| PSc                              | Effect of different binders on Performance and Health of broiler chicken fed Aflatoxin contaminated diet   | Nutreco, Netherlands             | 11.18 | 2021 | Malathi, V.         |
| PSc                              | Determination of the beneficial effects of yeast cell wall extracts in alleviating the toxic effects of Fusarium toxins in piglets   | Alltech, Kentucky, USA           | 8.31  | 2022 | Malathi, V.         |
| <b>VETERINARY COLLEGE, BIDAR</b> |  |                                  |       |      |                     |
| LPM                              | To Study Correlation Between Body Weight and age at Sexual Maturity in Desi Birds  | SCSP/TSP                         | 0.50  | 2021 | Vidyasagar          |
| VPT                              | Pharmacological and Phytochemical Evaluation of Medicinal Plants in Herbal Garden of Veterinary College, Bidar   | SCP-TSP                          | 0.75  | 2022 | Prashantkumar Waghe |
| VPHE                             | Isolation and molecular characterization of Extended Spectrum Betalactamase producing <i>E.coli</i> from foods of animal origin  | SCSP                             | 1.00  | 2019 | Arun Kharate        |
| VSR                              | A pilot study on phacoemulsification for cataract surgery using cadaver eye ball   | KVAFSU, Bidar                    | 0.50  | 2019 | Dilipkumar, D.      |
| VSR                              | Histopathological and electron microscopic evaluation of polyglecaprone 25 and poly diaxnone absorbable sutures for soft wound closure in canines                                    | SCP/TSP                          | 0.35  | 2021 | Venkatgiri          |
| VSR                              | Evaluation and diagnosis of surgical conditions of eye in animals  | KVAFSU, Bidar                    | 0.45  | 2021 | Bhagavntappa, B.    |
| VGO                              | Comparative study of endometrial cytobrush technique as a diagnostic aid and comparative efficacy of various intrauterine infusions to resolve subclinical endometritis in buffaloes | KVAFSU, Bidar                    | 0.75  | 2020 | Malasri, G.         |





| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |  |                     |       |      |                     |
|---------------------------------------|--|---------------------|-------|------|---------------------|
| LPM                                   | Utilization of Lysine Producing Probiotic Microorganisms in commercial broiler chickens  | KVAFSU, Bidar       | 0.20  | 2022 | Krishnamurthy, T.N. |
| ANN                                   | Validation and calibration of chemical composition of selected feed ingredients with NIR-Spectroscopy  | KVAFSU, Bidar       | 0.15  | 2022 | Manju, G.U.         |
| VPP                                   | Obscure Diseases Research Project  | GoK                 | 58.00 | 2016 | N.B. Shridhar       |
| VPP                                   | Pathomorphological studies on mortalities in non human primates with special reference to Kyasanur Forest Disease  | KVAFSU, Bidar       | 2.50  | 2019 | Kavitha Rani, B.    |
| VPP                                   | Studies on antimicrobial resistance, genetic diversity and pathogenesis of some zoonotic bacterial intracellular pathogens of Public health significance | KVAFSU, Bidar       | 2.50  | 2019 | Santhosh Sajjan     |
| VPP                                   | Pathological, molecular and immunological studies on KFD virus in monkey deaths, domestic animals and their tick vectors in KFD endemic areas            | KVAFSU, Bidar       | 0.20  | 2021 | Kavitha Rani, B.    |
| VCC                                   | Establishment of Research center to promote Ayurveda in Veterinary Science   | GoK                 | 50.00 | 2020 | Ravindra, B.G.      |
| AGB                                   | Malnad Gidda Research and Information Centre   | GoI                 | -     | 2014 | Head Dept. of AGB   |
| AGB                                   | A study on the role of socio-cultural and environmental factors involved in human and pet/domestic animal interaction                                    | ICMR                | 18.35 | 2021 | Jayashree, R.       |
| AGB                                   | Grassland management system for small holders having Malnad Gidda cattle (GMSMG)   | RKVY                | 49.60 | 2021 | Jayashree, R.       |
| LPT                                   | Effect of natural tenderizers on mutton chunks in the preparation of mutton curry  | KVAFSU, Bidar       | -     | 2022 | Chidanandaiah       |
| LFC                                   | Effect of <i>Moringa olifera</i> leaf meal on production performance of Swarnadhara parent birds.  | Social Welfare, GoK | 0.10  | 2019 | Bharathbhushan, M.  |
| <b>VETERINARY COLLEGE, HASSAN</b>     |  |                     |       |      |                     |
| VAN                                   | Histomorphometric characteristics of the corneal layer of hoof capsules of Amruthmahal Cattle ( <i>Bos indicus</i> )                                     | SCSP/TSP            | 0.50  | 2021 | Rajashailsha, N.M.  |

|       |   |  |       |      |                               |
|-------|---|--|-------|------|-------------------------------|
| AGB   | Selection of Amruthmahal Bull mothers based on FPR Standards  | NAFCC<br>KLDA                                    | 11.00 | 2020 | Naveen Kumar,<br>G.S.         |
| ANN   | Promotion of Desi chick rearing for sustainable income to scheduled tribe women at Hassan   | ICAR   | 40.00 | 2020 | Jaishankar, N.                |
| ANN   | Effect of Indigenous Herbal growth promoter on growth performance, Intestinal morphology, hemato-biochemical profile and digestive enzymes in commercial broilers | NIF  | 8.15  | 2021 | Jaishankar, N.                |
| ANN   | Assessment of productivity, <i>in vitro</i> digestibility and gas production characteristics of <i>Moringa</i> and <i>Sesbenia</i> tree fodder                    | SCSP/TSP   | 1.00  | 2021 | Jaishankar, N.                |
| VPE   | Evaluation of indigenous medications for the control of ticks and mastitis in dairy cattle  | NIF  | 9.13  | 2021 | Nagappa, S.<br>Karabasannavar |
| VPE   | Influence of a topical herbal formulation on the milk concentration of inflammatory marker molecules in subclinically mastitic cows                               | Ayurved<br>Limited.,<br>Baddi,<br>Solan,<br>H.P. | 2.08  | 2021 | Nagappa, S.<br>Karabasannavar |
| VPE   | Evaluation of the efficacy of a combination of herbal liver tonic and ointment in hepatic photosensitivity of cattle  | Ayurved<br>Limited.,<br>Baddi,<br>Solan, H.P     | 0.65  | 2021 | Dr. Satheesha S.P.            |
| VAHEE | Pork Consumption Pattern in Hassan District – A Critical Study  | KVAFSU,<br>Bidar                                 | 0.20  | 2022 | V. Jagadeeswary               |
| VCC   | Diagnosis and evaluation of different pericardiostomy techniques in management of pericarditis in cattle  | KVAFSU,<br>Bidar                                 | 0.30  | 2022 | Manjunath, D.R.               |
| LFC   | Upliftment of socioeconomic status and livelihood of dairy farmers of Hassan district by adopting advanced management technique                                   | Ansh<br>Vetlife,<br>Vadodara                     | 5.10  | 2021 | Chethan, K.P.                 |
| LFC   | Establishment of Fodder Cafeteria and assessment of nutritional quality of fodder crops   | SCSP/TSP   | 1.00  | 2020 | Roopa, T.K.                   |
| LFC   | Establishment of Pasture Land and Assessment of seasonal variation on nutritive composition of pasture  | SCSP/TSP   | 1.00  | 2021 | Roopa, T.K.                   |

|     |  |               |      |      |                   |
|-----|--|---------------|------|------|-------------------|
| VSR | Management of long bone fractures by different external coaptation techniques in cattle in and around Hassan                           | KVAFSU, Bidar | 0.50 | 2021 | B.R. Balappanavar |
| VSR | Surgical management of long bone fractures by Intramedullary (ILN) Inter Locking Nailing and Bone Plating in dogs in and around Hassan | KVAFSU, Bidar | 0.75 | 2021 | B.R. Balappanavar |
| VSR | Management of long bone fractures by different external skeletal fixation techniques in cattle   | KVAFSU, Bidar | 0.90 | 2021 | B.R. Balappanavar |

**VETERINARY COLLEGE, GADAG (VCG)**

|     |   |               |      |      |                         |
|-----|---|---------------|------|------|-------------------------|
| AGB | A study to assess the herd composition and herd dynamics of gaushalas in Gadag and surrounding districts                              | KVAFSU, Bidar | 0.05 | 2022 | Siddalingswamy Hiremath |
| AGB | A study on the indigenous cattle reared under mobile pastoral system in Karnataka   | KVAFSU, Bidar | 0.05 | 2022 | Siddalingswamy Hiremath |
| ANN | Effect of feeding herbal galactogogue (shatavari: <i>Asparagus racemosus</i> ) on milk production and its composition in dairy cattle | KVAFSU, Bidar | 0.30 | 2022 | M.S. Rudraswamy         |
| LFC | Comparison of Performance of Layers for laying eggs in mud pots V/s nest boxes  | KVAFSU, Bidar | 0.05 | 2022 | Dharmaraj, G.Y.         |
| LFC | Nutritional Evaluation of cucumber creeper hay in adult sheep   | KVAFSU, Bidar | 0.10 | 2022 | S.B. Prasanna           |
| VPP | In early kid and lamb mortality: A study on pathological changes of gut   | KVAFSU, Bidar | 0.30 | 2022 | Shashidhar Ballari      |

**DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)**

|     |   |               |      |      |                 |
|-----|---|---------------|------|------|-----------------|
| DMC | Detection of Bacteriophages of Lactic cultures used in Dairy Industry                           | DSM, Pune     | 8.00 | -    | Dr. Prabha, R.  |
| DT  | Technology for the development of millet based RTE functional paneer bite                       | KVAFSU, Bidar | 0.30 | 2022 | Harinivenugopal |
| DC  | Recovery and analysis of phospholipids from ghee residues and to study its antioxidant property | KVAFSU, Bidar | 0.20 | 2022 | Rajanna, M.     |
| DMC | Predictive Microbial Spoilage of Butter Samples   | KVAFSU, Bidar | 0.20 | 2022 | Ramachandra, B. |
| DMC | Characterization of dairy origin probiotic <i>Bacillus</i> species                              | KVAFSU, Bidar | 0.20 | 2022 | Malashree, L.   |

**DAIRY SCIENCE COLLEGE, KALABURAGI (DSCK)**

|    |  |               |      |      |                   |
|----|--|---------------|------|------|-------------------|
| DE | Surface UV-C Light Treatments to Extend the shelf life of Dairy products | TSP Grants    | 0.50 | 2021 | Devaraju, R.      |
| DT | Development of enriched Banana fruit Yoghurt                             | KVAFSU, Bidar | 0.20 | 2022 | Shashikumar, C.S. |

**COLLEGE OF FISHERIES, MANGALURU (FCM)**

|      |   |                           |        |      |                       |
|------|---|---------------------------|--------|------|-----------------------|
| Aqua | Modernization of Research and Instructional Fish Farm for New Aquaculture Technologies.   | RKVY                      | 790.00 | 2020 | Ganapathi Naik, M.    |
| FET  | Studies on the effect of Ring seine operated with out board Engine along the Mangaluru Coast of Karnataka                               | SCP/TSP                   | 0.70   | 2021 | Jaya Naik             |
| FET  | Multi Purpose Support Services (SAGAR MITRA)  | PMMSY                     | 54.00  | 2021 | Dean FCM              |
| AAHM | National Surveillance Programme for Aquatic Animal Diseases: Surveillance of shrimp diseases in coastal Karnataka (Brackish water)      | NFDB                      | 18.34  | 2013 | S.K. Girisha          |
| AAHM | National Surveillance Programme for Aquatic Animal Diseases (Freshwater)  | NFDB-NBFR                 | 12.09  | 2013 | Suresh, T.            |
| AEM  | Skill development programs in 'Fisheries' under area based development (ABD) mission of Mangaluru Smart City Limited                    | MSCL, DK                  | 490.00 | 2021 | Dean FCM              |
| AEM  | Sea water quality monitoring in UPCL sea water intake and effluent discharge location of Padubidri                                      | UPC Ltd., Udupi           | 12.00  | 2021 | M.T. Lakshmipathi     |
| AEM  | Treated effluent analysis and monitoring of seawater quality off Chitrapur near the marine outfall of effluent from MRPL-ONGC Mangaluru | MRP Ltd.                  | 11.99  | 2021 | M.T. Lakshmipathi     |
| AEM  | Up gradation of clean Laboratory for water and soil analysis  | KSTPS, Bengaluru          | 10.00  | 2021 | M.T. Lakshmipathi     |
| AEM  | Monitoring of pollution impact due to disposal of effluents from BASF, Mangaluru  | BASF (Dyes & Dispersants) | 7.65   | 2021 | M.T. Lakshmipathi     |
| AEM  | Analysis of sea water monitoring at marine outfall Discharge point  | Mangaluru SEZ Ltd.        | 7.08   | 2021 | M.T. Lakshmipathi     |
| AEM  | Ecological monitoring off Arabian sea near Thannirbhavi, Mangaluru  | MCF Ltd.                  | 2.96   | 2021 | A.T. Ramachandra Naik |
| AEM  | Bioassay studies of the treated effluent and soil analysis  | SOLARA-APS Ltd.           | 0.60   | 2021 | T.S. Annappaswamy     |

|   |  |                 |         |      |                 |
|---|--|-----------------|---------|------|-----------------|
| FRM   | Skill Development and Safety Training Centre' under Area Based Development (ABD) Mission of Mangaluru Smart City Limited (MSCL)                                  | MSCL, Mangaluru | 475.00  | 2019 | Dean FCM        |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |  |                 |         |      |                 |
| SRDDL   | Southern Regional Disease Diagnostic Laboratory  | GoI             | 264.00  | 2000 | Raveendra Hegde |
| Disease Investigation   | All India Coordinated Research Project (AICRP) on Animal Disease Monitoring and Surveillance   | ICAR-NIVEDI     | 8.37    | 1989 | Asha Mayanna    |
| Biological Production   | AICRP on FMD for virus typing and sero monitoring  | ICAR-DFMD       | 5.10    | 1998 | Raveendra Hegde |
| Biological Production   | DBT Network programme on bovine tuberculosis Control: Mycobacterial disease in animal network (MYDAN) program-project management unit                            | DBT             | 1916.81 | 2019 | S.M. Byregowda  |
| Disease Investigation   | Establishment of veterinary forensic laboratory  | RKVY            | 560.00  | 2019 | Asha Mayanna    |
| Disease Investigation   | Establishment of referral diagnostic laboratory at Devanagari  | GoK             | 300.00  | 2016 | Asha Mayanna    |
| Disease Investigation   | Establishment of Animal disease diagnostic laboratory & Information Centres (ADDLIC) at Dharwad, Gadag, Koppal, Raichur and Vijayapura                           | GoK             | 300.00  | 2018 | Asha Mayanna    |
| Disease Investigation   | Development of recombinant protein based diagnostic kits(lateral flow assay) for field level detection of PPR, Swine fever, Bluetongue and sub-clinical mastitis | RKVY            | 250.00  | 2018 | Asha Mayanna    |
| Biological Production   | Establishment of ultramodern vaccine production laboratory   | GoK             | 130.00  | 2016 | S.M. Byregowda  |
| Biological Production   | Establishment of FMD vaccine production facility   | GoK             | 24.75   | 2017 | S.M. Byregowda  |
| Biological Production   | Establishment of exclusive BSL- III lab for KFD vaccine production   | GoK             | 550.00  | 2019 | S.M. Byregowda  |

|   |   |   |        |      |                        |
|---|---|---|--------|------|------------------------|
| QMS   | Establishment of Animal challenge facility for QCU as per GMP   | RKVY  | 500.00 | 2018 | Asha Mayanna           |
| SRDDL   | Screening for genetic disorders in breeding bulls in Karnataka state  | KLDA  | 78.00  | 2014 | Shivaraj               |
| Biological Production   | Development and evaluation of pentavalent blue tongue vaccine for sheep and standardization of rapid diagnostics for early detection of blue tongue virus | KS&WDB<br>GoK                                       | 24.74  | 2015 | Kavitha, G.            |
| Biological Production   | Standardization and production of species Specific anti-snake venom from Chicken eggs   | RKVY  | 50.00  | 2016 | Raveendra Hegde        |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b>   |   |   |        |      |                        |
| LRIC (Deoni)  | Establishment of a Model Deoni Farm in Bidar District   | RKVY,<br>GoK  | 100.00 | 2017 | Prakashkumar Rathod    |
| LRIC (Deoni)  | Improving Livelihood of Scheduled Caste (SC) Community through Integrated Livestock Development and Capacity Building in Bidar District of Karnataka      | ICAR-SCSP,<br>New Delhi                             | 65.00  | 2020 | Prakashkumar Rathod    |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA</b> |   |   |        |      |                        |
| LRIC (Sheep)  | Mega Sheep Seed Project   | ICAR-CSWRI  | 34.40  | 2009 | H.K. Siddalingamurthy  |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (B), DORNAHALI</b>       |   |   |        |      |                        |
| LRIC (B)  | Establishment of Model Buffalo farm in Yadagir District   | NITI<br>AYOG,<br>GoI                                | 24.00  | 2020 | Channappagouda Biradar |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>   |   |   |        |      |                        |
| FRIC, Hebbal  | Testing of <i>Aeromonas hydrophila</i> biofilm oral vaccine in Indian major carps   | M/s. Virbac<br>Animal Health India Pvt. Ltd. Mumbai | 35.62  | 2018 | K.B. Rajanna           |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA</b>         |   |   |        |      |                        |
| FRIC Hesarghatta  | Evaluation of heterotrophic food chain in different agro climatic regions and strategies for enhancement of fish production                               | DST-SSTP,<br>New Delhi                              | 53.27  | 2019 | N. Manjappa            |
| FRIC Hesarghatta  | Production of hormone-free mono sex population of Nile Tilapia <i>Oreochromis niloticus</i> (Linnaeus, 1758) for the farming community                    | KVAFSU,<br>Bidar                                    | 2.00   | 2020 | Ravindragouda Patil    |

| <b>FISHERIES RESEARCH AND INFORMATION CENTER (MARINE), ANKOLA</b> |  |  |        |      |                          |
|---|--|--|--------|------|--------------------------|
| FRIC<br>Ankola  | Development of backyard hatchery system for pearl spot ( <i>Etroplus suratensis</i> ) as alternative livelihood  | KVAFSU,<br>Bidar                                 | 1.50   | 2019 | Chandrakant<br>Lingadhal |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLY-TUMKURU</b>            |  |  |        |      |                          |
| AHP<br>Kone-<br>hally   | Effect of dietary supplementation of combination of natural thiosulfinate, ciniiamaldehyde and naththoquinone as growth promoter in broiler poultry production | Quadragen<br>Vet Health<br>Pvt Ltd,<br>Bengaluru | 1.10   | 2021 | Umashankar, B.C.         |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KORAVANGALA -HASSAN</b>          |  |  |        |      |                          |
| AHP,<br>Hassan  | Conservation of Hassan Sheep Breed   | GoK  | 325.00 | 2017 | Guruprasad, R.           |
| AHP,<br>Hassan  | Establishment of Small Ruminant Semen Bank   | GoK  | 300.00 | 2017 | Guruprasad, R.           |

## ABSTRACT OF ONGOING RESEARCH PROJECTS

| #            | College /Institute                | Research Projects |                    |
|--------------|-----------------------------------|-------------------|--------------------|
|              |                                   | Total Nos.        | Amount (Rs. Lakhs) |
| 1            | Veterinary College, Bengaluru     | 28                | 214.32             |
| 2            | Veterinary College, Bidar         | 7                 | 4.30               |
| 3            | Veterinary College, Shivamogga    | 12                | 181.60             |
| 4            | Veterinary College, Hassan        | 16                | 82.26              |
| 5            | Veterinary College, Gadag         | 6                 | 0.85               |
| 6            | Dairy Science College, Bengaluru  | 5                 | 8.90               |
| 7            | Dairy Science College, Kalaburagi | 2                 | 0.70               |
| 8            | College of Fisheries, Mangaluru   | 14                | 1892.41            |
| 9            | IAH&VB, Bengaluru                 | 15                | 4961.77            |
| 10           | LRIC, Hallikhed-Bidar             | 2                 | 165.00             |
| 11           | LRIC, Nagamangala-Mandya          | 1                 | 34.40              |
| 12           | LRIC, Dornahalli-Yadgir           | 1                 | 24.00              |
| 13           | FRIC, Hebbal-Bengaluru            | 1                 | 35.62              |
| 14           | FRIC, Hesaraghatta-Bengaluru      | 2                 | 55.27              |
| 15           | FRIC, Ankola-Uttar Kannada        | 1                 | 1.50               |
| 16           | AHP, Konehally-Tumakur            | 1                 | 1.10               |
| 17           | AHP, Koravangala-Hassan           | 2                 | 625.00             |
| <b>Total</b> |                                   | <b>116</b>        | <b>8289.00</b>     |



## **b) Research Highlights**

### **VETERINARY COLLEGE, BIDAR**

#### **Title: Patho orphological p53 immunohistochemical evolution of squamous cell carcinoma of eye of cattle**

Budget utilised for the purchase of chemicals and antibiotics

Currently collected 20 cases of eye cancer

Laboratory analysis and histopathological processing, examinatuion and photography is underprogress

#### **Title: Pharmacological and Phytochemical Evaluation of Medicinal Plants in Herbal Garden of Veterinary College, Bidar**

Budget utilized during the F.Y: 2021-2022 towards the purchase of chemicals, reference standards and plastic ware.

#### **Title: Isolation and molecular characterization of Extended Spectrum Betalactamase producing *E.coli* from foods of animal origin**

Samples (n=180) from foods of animal origin (Ckicken meat=30, Chevon=30, beef=30, Kara beef=30, Pork=30, Milk=30) were collected from Bidar.

Samples were subjected to isolation by inoculation on McConkey's agar followed by EMB agar. *E.coli* was tentatively identified by conducting biochemical tests ie..IMViC tests followed by confirmation by PCR.

The ESBL producing *E.coli* were identifies by Phenotypic Confirmatory Test (PCT) as recommended by CLSI guidelines (*Aggeliki et al, 2014*)by conducting ABST on Muller Hinton agar using ceftazidime (30mcg) and ceftazidime(30mcg) + clavulanic acid(10mcg) antibiotics discs.

The ESBL *E.coli* samples detected by PCT from Chicken meat, Chevon, beef, Kara beef, Pork and Milk were 15 (50%), 14 (46.66%), 10 (33.33%), 12 (40%), 9 (30%) and 14(46.66%) respectively.

The molecular characterization is under progress.

#### **Title: A pilot study on phacoemulsification for cataract surgery using cadaver eye ball**

Budget was utilized towards the purchase of the instrumentation, implants and anesthetics. The study is under progress

#### **Title: Histopathological and electron microscopic evaluation of polyglecaprone 25 and poly diaxnone absorbable sutures for soft wound closure in canines**

Budget was utilized towards the purchase of the instrumentation, implants and anesthetics. The study is under progress

#### **Title: Evaluation and diagnosis of surgical conditions of eye in animals**

Budget was utilized towards the purchase of the surgical and medicines The study is under progress

**Title: Comparative study of endometrial cytobrush technique as a diagnostic aid and comparative efficacy of various intrauterine infusions to resolve subclinical endometritis in buffaloes**

Trial between groups is under process

**VETERINARY COLLEGE, SHIVAMOGGA**

**Title: Obscure Diseases Research Project**

Research is being carried out on large ruminants regarding cattle mortalities in Southern Transition zone and Hilly zones of Karnataka with special emphasis on deaths due to consumption of *Mimosa invisa* plant.

Similarly, mortalities in sheep due to *Clostridium perfringens* and other causes is also being carried out in the same agro-climatic zones.

**Title: Pathomorphological studies on mortalities in non human primates with special reference to Kyasanur Forest Disease**

Monkey necropsy samples have been collected from various remote locations in Sagara, Soraba, Hosanagara, Tirthalli taluks of Shivamogga district, as and when the cases of monkey deaths were spotted by forest officials.

All cases, macroscopic pathology have been documented, and histopathological studies are to be carried out. Tissues like brain, spleen, liver, lungs, heart and kidneys are being collected, and wherever possible, intestinal contents are also being collected. .

Till date, the necropsy tissue specimen sent to NIV, Pune have tested negative for KFD, by RT-PCR method.

The budget of 2.5 lakhs, have been utilized to procure special chemicals, test kits, glassware, labware and other essential items required to carry out field necropsy and analysis pertaining to monkey mortalities.

Network between Veterinary College and the stake holders such as the Department of Animal Husbandry & veterinary services, Department of Health and Family Welfare, Karnataka Forest Department and Zilla Panchayat of Shivamogga district have been created, so that monkey deaths would be reported, so that samples would be available for research activity.

Most of the cases have shown pathological changes in liver and kidneys, followed by lungs and brain. Multi-nucleated hepatocytes and focal portal inflammations were evident in liver. Kidneys showd interstitial type of nephritis and in one case oxalosis was noticed which gave birefringence under polarized light. Several cases of lungs showed heart failure cells indicating pulmonary congestion and heart lesions.

**Title: Establishment of Research center to promote Ayurveda in Veterinary Science**

The Project was instilled at Veterinary College Shivamogga on 23-12-2021

Budget utilization is under progress

Selection of Man power required for the project is completed

Establishment of “Veterinary Ayurveda Laboratory” is under process

Earmarked the place for Mini Ayurvedic Medicinal plant Garden

Evaluation of efficacy of certain herbal product has been initiated at different centers

## Title: Malnad Gidda Research and Information Centre

During this year 7 calves were born (5 male and 2 females). 29 animals of different age groups were auctioned to farmers (9 Males and 10 females) for their use as breeding and agricultural purposes. Online training program series for farmers and general public was organized on 5<sup>th</sup>, 7<sup>th</sup> and 14<sup>th</sup> July 2021. The training programme series was inaugurated on 5<sup>th</sup> July 2021 by respected Director of Research, KVAFSU, Dr. Shivaprakash. A video presentation about Malnad Gidda cattle breed was released and the same was uploaded to you tube. He addressed the participants about the importance of conservation of native breeds. Dr Prakash, N. Dean, Veterinary College, Shivamogga appraised about the activities of Malnad Gidda Research and Information centre. The training co-coordinator and PI of MGR&IC, Dr. R. Jayashree welcomed the participants. The training programme on 5<sup>th</sup> July 2021 was on the topic of “Value added Milk products of Malnad Gidda Breed”. Dr. Chidanandiah, Professor & Head, Dept. of LPT spoke on the importance of value addition to milk. A video demonstration on value added products Kulfi, Ice Cream, Whey Drink and Whey ice was made by Dr. Pavan, Dept. of LPT and the same was launched in You tube.

The second in the series was on the topic Introduction of different fodder varieties and their cultivation practices and tree fodder seedling production was done on 7<sup>th</sup> July 2021. Dr Venkatesh, Agronomist spoke about the various fodder varieties. The videos were uploaded to you tube channel.

The third day (14<sup>th</sup> July 2021) in the online training program series was on the topic “Production of various products from Dung and Urine for organic farming practices” Dr. Shilpa, Research Associate, Natural farming project of UAHS spoke and gave a online demo of various value added organic manure from dung and urine of Malnad Gidda. Totally 165 farmers were benefitted by the online training program.

Two days training programme on the topic “Importance of Malnad Gidda breed of cattle and Value addition to various products” was organized on 05 & 06/01/2022 About 43 farmers from different districts of Karnataka like Shivamogga, Hassan, Udipi, Chickmagalore, Bengaluru and Chamarajnagar participated in the training programme. The Dean of Veterinary College, Shivamogga, Dr. Prakash, N. inaugurated the programme by lighting the lamp. Three folders were released during the training program carrying information on the Coat colour variants of Malnad Gidda, Malnad Gidda under sustenance production and Various cattle breeds of Karnataka.

**Total revenue of One lakh, four thousand seven hundred and eighty nine rupees was generated in this financial year 2021-22.**

| Production performance details of Malnad Gidda breed as recorded in 2021-22 |              |              | Reciepts from MGRIC during the year 2021-22 |                  |
|---|--------------|--------------|---|------------------|
|   |              |              | Receipts                                    | Rupees           |
| Age at first Calving (days)   | 1138±25.71   |              | Sale of Milk                                | 35189.00         |
| Intercalving intervals (days)   | 375.5±10.01  |              | By animal auction                           | 63600.00         |
| Birth Weight of Calf (kg)   | Female       | Male         | By Sale of Urine and Manure                 | 6000.00          |
|   | 7.352±0.2085 | 7.898±0.2199 |   |                  |
| Average Milk yield per lactation  | 272.3±12.14  |              | <b>Total Receipts</b>                       | <b>104789.00</b> |
| Lactation length  | 180.6±7.763  |              |   |                  |
| Peak yield  | 2.451±0.0927 |              |   |                  |
| Days to Reach peak yield  | 25.9±3.39    |              |   |                  |
| Ave M /Y per day  | 1.627±0.061  |              |   |                  |
| Dry Period (days)   | 170.1±8.197  |              |   |                  |
| Number of calves born   | 7 (5 M+4 F)  |              |   |                  |

**Title: A study on the role of socio-cultural and environmental factors involved in human and pet/domestic animal interaction**

ICMR Ad-hoc project titled “A study on the role of socio-cultural and environmental factors involved in human and pet/domestic animal interaction” is on going in the Dept. of AGB, Veterinary College, Shivamogga. The project was initiated on 16<sup>th</sup> September 2021 with the sanction of first installment of 9.48 lakhs out of the total budget of 18.35 lakhs for two years. The budget heads for the project were allocated and the project personnel (Field workers-2 and Data entry operator-1) were recruited in the month of November 2021. Preliminary meetings by the PI and Co PI’s were conducted to plan the activities of the project. Questionnaires and Schedules were prepared and printed after several round of editing and corrections. The stationery items, Computer a, Printer and voice recorder equipments are purchased utilizing the project budget.

Pilot survey was started in the month of January 2022. Actual survey is ongoing since the month of February. Pet owners and domestic animal owners visiting for consultation to the Veterinary Hospital, VCC, Veterinary Shivamogga, Govt and Private Veterinary hospitals in and around Shivamogga, Rural Veterinary Hospitals of Shivamogga Taluk are surveyed. So far around 300 numbers were surveyed up to 31<sup>st</sup> March 2022. The information collected is documented as hard copy and soft copy. The Photos and Videos collected during the survey are also preserved for the use of the project.

**Title: Grassland management system for small holders having Malnad Gidda cattle (GMSMG)**

The funds for the project were released in the last week of March 2022 to KVAFSU account. Proposals were submitted for sanction of budget heads to The Comptroller, KVAFSU for start of the project immediately. The site selected for the project near MGR& IC was visited and the estate office is requested to measure the land for further action in executing the project.

**VETERINARY COLLEGE, HASSAN**

**Title: Evaluation of the efficacy of a combination of herbal liver tonic and ointment in hepatic photosensitivity of cattle**

The efficacy of Herbal Liver tonics and ointments were evaluated for the photosensitisation in large rumunats. The followup of the cases was done for 06 cases. The haemato-biochemical studies have been done for the available cases. However; the number of cases found this area was less hance the project is being delayed.

**Title: Pork Consumption Pattern in Hassan District – A Critical Study**

Tool construction has been completed and data collection is in progress.

## DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU

### Title: Detection of Bacteriophages of Lactic cultures used in Dairy Industry

Total of 94 samples out of which 23 whey and 71 curd samples were collected from various dairies of Karnataka and subjected for bacteriophage detection by using soft agar method.

None of these tested samples showed presence of bacteriophage.

## COLLEGE OF FISHERIES, MANGALURU

### Title: Modernization of Research and Instructional Fish Farm for New Aquaculture Technologies

NITK Surathkal is implementing the project. Tendering work is going on. Shortly work will be initiated.

### Title: National Surveillance Programme for Aquatic Animal Diseases: Surveillance of shrimp diseases in coastal Karnataka (Brackish water)

A total of 67 Shrimp sample pools (Post larvae and adults) were collected and analysed for the major shrimp pathogens

EHP (18) and WSSV (03) were detected among the samples analysed

No incidence of RNA viruses was observed even by third level of diagnosis (PCR) in the cultured shrimp

AHPND suspected shrimp samples were reported for the first time by PCR assay and sequencing

AHPND suspected shrimp tissue samples were sent to NBFGR, Lucknow and CIBA, Chennai for further validation

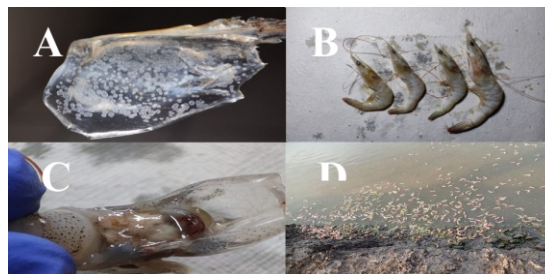


Fig: Clinical symptoms observed in collected shrimp samples. A- White spots on the carapace, B size variation, C- pale hepatopancreas, D- heavy mortality

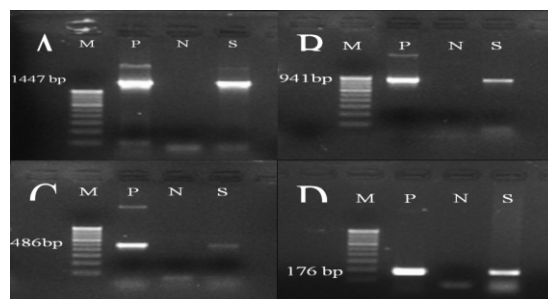


Fig: Agarose gel electrophoresis image confirms pathogen infection in shrimp tissue samples. A – Band at 1447 bp shows positive for White Spot Syndrome Virus; B – Band at 941 bp shows positive for White Spot Syndrome Virus; C – Band at 486 bp shows positive for White Spot Syndrome Virus; D – Band at 176 bp shows positive for *Enterocytozoon hepatopenaei*. M – 100 bp ladder; P – Positive control; N – Negative control; S – Sample

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

A total of 34 fish samples were collected from different aquarium shops and farms. Samples were screened for DNA viruses (KHV, CEV, CyHV -2, EHNV, CCVD, ISKNV) and RNA viruses (SVCV, VHSV, VNN and TiLV) by PCR using specific primers. Among the samples analysed, 4 fish sample was found to be positive for ISKNV. Among RNA viruses, TiLV was found positive in 2 Tilapia samples. Along with the viral infection tilapia harboured bacterial pathogen like *Aeromonas veronii*. Four fishes (Asian seabass) were found positive for RSIV in different regions of coastal Karnataka. *Aeromonas hydrophila* and *A. veronii* were found as co-infection with other viral disease. Parasites like ich, argulus, lernaea and gill fluke were found and diagnosed by using both microscopic and molecular based methods.

### **Title: Skill development programme in fisheries under area based development (ABD) mission of Mangaluru Smart City limited.**

Skill Development Programme could be undertaken as a means of self employment and subsidiary income generation activities to the participants. Thus, following are top 15 skill development programmes are proposed to be initiated in the field of 'Fisheries' for the benefit of fishermen of Mangaluru region (To be implemented after the completion of building works).

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

Water quality - within the ambient levels of coastal environment  
Phytoplankton: 33 genera Diatoms dominant, followed by dinoflagellates and blue green algae  
Zooplankton – 21 genera Copepods, tintinids, Oikopleura, polychaetes and decapod larvae (dominant)  
Benthos – 16 genera molluscs & polychaetes (dominant)  
Heavy metals were analysed (Cd, Cr, Mn, Fe, Pb, Zn, Ni) in sediment samples during Post monsoon and pre monsoon season found to be within the prescribed range.  
Bioassay studies - no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout.

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

Water, sediment, phytoplankton, zooplankton and benthos were collected by using standard methods from the vicinity of discharge point, off Arabian sea, Mangaluru  
Water quality - within the ambient levels of coastal environment  
Phytoplankton: 33 genera  
Diatoms- *Coscinodiscus*, *Biddulphia*, *Chaetoceros*, *Ditylum* (Dominant)  
Dinoflagellates – *Ceratium*, *Peridinium* (Dominant)  
Blue green algae- *Tricodesmium* (Dominant)  
Zooplankton – 21 genera Copepods, Copepod Nauplius, *Oikopleura*, Tintinids, Cladocerans (Dominant)  
Benthos – 17 genera  
Molluscs – Bivalve spats, *Donax*, *Dentalium*, *Meritrix* and *Umbonium* (Dominant)  
Polychaetes – *Neries*, *Nephtys*, *Polydora* (Dominant)  
Heavy metals- Cd, Cr, Mn, Fe, Pb, Zn, Ni – Not Detected

The bioassay studies - no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout. No mortality of fingerling of *Cyprinus carpio* exposed to the water collected from the cooling pond of the industry (before discharging into the sea).

**Title: Analysis of sea water monitoring at Marine outfall discharge point**

Monitored the coastal water quality in the vicinity of discharge of point of MSEZL in the Arabian Sea assessing water, sediment, plankton and benthos.

Water quality - within the ambient levels of coastal environment

Phytoplankton: 20 genera

Diatoms- *Chaetoceros*, *Biddulphia*, *Coscinodiscus*,

Dinoflagellates – *Ceratium*, *Peridinium* (Dominant)

Blue green algae- *Tricodesmium* (Dominant)

Zooplankton – 20 genera - Copepods, copepodites, tintinids, *Oikopleura*, Cladocerans (Dominant)

Benthos – 15 genera – Molluscs – Bivalve spats, *Meritrix*, *Donax*, *Dentalium* and *Umbonium* (Dominant) Polychaetes – *Neries*, *Nephtys*, *Polydora* (Dominant)

Population density Polycathates showed direct relationship with organic matter.

Heavy metals- fish, phyto and zooplankton samples - Cd, Cr, Mn, Fe, Pb, Zn and Ni – within permissible limit.

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

Water quality in the study area is well within the ambient levels of coastal environment.

Phytoplankton - 36 species

*Biddulphia-Biddulphiaregia*, *B. sinensis*, *Biddulphiambiliensis*. *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 - 23 species:

Tintinids- *Tintinopsis sp.* *Rabdonella sp.* Medusae- *Obelia sp.* *Octocostatum sp.* Ctenophores- *Plurobranchiasp.* Chaetognaths- *Sagitta enflata*, *Pterosagittadraco*, *Lucifer lucifer*. Benthic diversity was observed 19 groups were dominated by molluscs followed by Echinodermata, Echiuroids, miscellaneous- crabs, shrimps and fishes.

The biological diversity varied with time and space in the region both vertically and horizontally.

The bioassay studies - no mortality of mussels exposed to seawater collected from the vicinity of effluent fallout.

**Title: Bio-monitoring studies of treated effluent and soil analysis SOLARA Active Pharma Sciences Limited, Baikampady, Mangaluru**

Bioassay experiments were conducted on monthly basis on treated effluent samples supplied by SOLARA Active Pharma Sciences Limited using common carp. (*Cyprinus carpio* L.) And monthly reports have been submitted to the sponsoring agency regularly.

## On board sampling



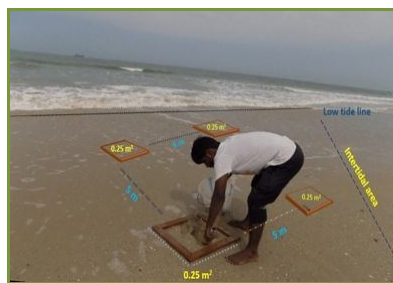
## Plankton collection



## Sub surface water sampler



## Beach sampling design quadrates with 0.25 m<sup>2</sup>



**Title: “Skill Development and Safety Training Centre’ under Area Based Development (ABD) Mission of Mangaluru Smart City Limited (MSCL)”**

Skill Development and Safety Training Centre could be undertaken as a means of self employment and subsidiary income generation activities to the participants.

Thus, following are top 8 skill development programmes are proposed to be initiated in the field of ‘Fisheries’ for the benefit of fishermen of Mangaluru region (To be implemented after the completion of building works).



## **LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED**

### **Title: Establishment of a Model Deoni Farm in Bidar District**

Majority of the civil works for loose housing of 50 cows is complete.  
Construction of ancillary civil works is underway.  
Purchase of equipment is underway.  
Purchase of Deoni animals is underway.

### **Title: Improving Livelihood of Scheduled Caste (SC) Community through Integrated Livestock Development and Capacity Building in Bidar District of Karnataka**

Recruitment of Field Investigators under the project is completed.  
Baseline survey in 06 project villages during Dec, 2020.  
Awareness/ Capacity building programmes on identified interventions.  
On – Farm Demonstrations and field visits.  
Distribution of concentrate feed during transition period in goats.  
Distribution of Giriraj backyard poultry birds (3 weeks old).  
Developing extension literature for the benefit of farmers.  
Renovation of poultry shed and construction of poultry shed.  
Distribution of bucks to identified beneficiaries (who possess at least 10 does).

## **LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA**

### **Title: Mega Sheep Seed Project**

Mega Sheep Seed Project is being implemented from the year 2009 at Livestock Research & Information Centre (Sheep), Karnataka Veterinary, Animal and Fisheries Sciences University, K. R. Pete Road, Nagamangala, Mandya (Dstt.), Karnataka- 571 432, under the Co-ordination of Central Sheep & Wool Research Institute, Avikanagar, Rajasthan.

The overall goal of MSSP-MS is genetic improvement of Mandya/Bandur Sheep by selective breeding through supply of 70 elite breeding rams every year to the beneficiary farmers to cover their 2500 breedable ewes for enhancing quality and quantity of meat production. For this purpose during the year 2021-22 the amount of Rs. 34.40 lakhs has been allocated from the Indian Council of Agricultural Research. This year 52 elite breeding rams have been distributed to the 52 beneficiary farmers in the field to cover their 2249 breedable ewes. Since from the inception of the project a total of 524 elite breeding rams that were born and raised at the farm were distributed to the identified 537 farmers in the home tract area to cover their 20,503 breedable ewes for overall genetic improvement of Mandya sheep. Performance of the distributed breeding rams and their progenies in the beneficiary farmers flocks are being monitored on regular basis. 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 the base population. Research is under progress because this project is ongoing project.

## **LIVESTOCK RESEARCH AND INFORMATION CENTER (BUFFALO), DORANALLI**

### **Title: Establishment of Model Buffalo farm in Yadagir District**

Introduced 07 buffaloes first time since inception of research center.  
Fodder land development and extension activities are under way. (03 Photos enclosed)  
Fodder museum of 10-12 varieties have been established  
Around 6 acre land has been made cultivable.  
8 Trainings have been conducted and around 400 Farmers, Officers and students were trained.

## FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU

### Title: Testing of *Aeromonas hydrophila* biofilm oral vaccine in Indian major carps

M/s. Virbac Animal Health India Pvt. Ltd. Mumbai has funded project entitled “Testing of *Aeromonas hydrophila* biofilm oral vaccine in Indian major carps”. The total budget of the project is Rs. 35,62,478/-. Till date the funding agency has released Rs. 30,51,010/- to the University. *Aeromonas hydrophila* biofilm vaccine has been produced in the laboratory. Artificial fish feed was also prepared in this centre. The developed vaccine was mixed with the feed and fed to the experimental fishes at different doses. This vaccine has been tested against two commercially important fishes like Catla and Rohu in this research centre. The dosage of the vaccine is calculated in terms of cfu/ml. The dosage of vaccine to be given to the fish has been standardized. The progress report has been submitted to the funding agency. Field evaluation study was carried out by following the protocol given by the funding agency. Fishes of 5g body weight fingerlings of Catla and Rohu were used for the field experiment.

The experiment was set up with 3 treatment groups and 1 control group for each species was arranged in triplicates. Number of fish in each of triplicate tank 100 nos of fishes was stocked. At the initial days of experiment the fishes was feed with vaccinated ( $10^{10}$  cfu/ml) feed to all the groups for about 15 days. Later, from 16<sup>th</sup> day control feed was given upto 240 days for treatment 1 (T-1), where as for T-2 & 3 control feed was given upto 60<sup>th</sup> day, from 61<sup>th</sup> to 75<sup>th</sup> day vaccinated feed was given for both T-2 & T-3 and from 76<sup>th</sup> day to 240 days control feed will be given to T-2. Whereas in T-3 from 76<sup>th</sup> to 120<sup>th</sup> day control feed was given. Later it was followed with vaccinated feed from 121<sup>th</sup> to 136<sup>th</sup> and from 137<sup>th</sup> to 240<sup>th</sup> day control feed was given. Along with this treatment study the challenge study was also carried out for all the treatment at every 30 days interval,

In Treatment T-1 challenge study was carried out from 60<sup>th</sup> day for about 7 days, Treatment T-2 from 90<sup>th</sup> days, Treatment T-3 from 120<sup>th</sup> day. Regular water quality, fish growth and health were recorded at every 30 days.

The results of antibody (Ab) titre of Catla showed significant increase in all the treatment throughout the experiment. However, in T1 titre value was comparatively lower than T2 and T3 till 120 DPV which increased significantly after 180 DPV.

Whereas in the challenge study of Catla fish, the survival rate was low in control (20%) than the treatments T1 and T 2 (60-70%), highest survival was in T3 with 90 %. Hence based on survival in T3 recommended.

The results of antibody titre of rohu were higher in all the treatment throughout experiment. antibody (Ab) titre decreased after 120 DPV to raise again on 240 DPV. Level of antibody (Ab) was higher in T3 all through and stable consistent up to 240 DPV. Hence vaccine protocol of T3 with 2 booster doses is recommended.

The Challenge of study of Rohu fish, the survival of fish was 50% in control whereas 90% in treatments. Overall considering high Ab titre and survival upon challenge, vaccine protocol of T3 (primary with 2 booster) was recommended.

## FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA

### Title: Evaluation of heterotrophic food chain in different agro climatic regions and strategies for enhancement of fish production

The experiment was planned to conduct in southern dry agro-climatic region of Karnataka such as Kanakapura, Bidadi and Ramanagara district was selected to conduct the experimental trails. Seasonal ponds were identified and selected for conducting demonstrations.

Fish and prawn fingerlings were procured and are ready for stocking in the demonstration ponds.

Regular monitoring of water quality in the nursery ponds are being done.

Two major substrates (Bamboo pole and sugarcane bagasse) required for the demonstration purpose is collected and stored for experimental purpose.

Monoculture and polyculture farming of carnatic carp, fringed-lipped carp and fresh water prawn is being carried out in two different substrates such as bamboo pole and sugarcane bagasse for building heterotrophic food chain in periphyton based system.

The complete demonstration and research experiments will be carried out in this upcoming year after the releasing of budget.

**Title: Production of hormone free mono sex population of Nile Tilapia *Oreochromis niloticus* (Linnaeus, 1758) for the farming community**

Broodstocks (40 Males and 40 Females) have been brought from Manchanabele Dam, Magadi Taluk, Ramanagar District and acclimatized in broodstock pond.

The studies on traditional taxonomy and molecular taxonomy to distinguish Nile tilapia from Mozambique tilapia have been conducted successfully.

Currently preparation is been done for carrying out hormone induced sex reversal studies.

**FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA**

**Title: Development of backyard hatchery system for pearl spot (*Etroplus suratensis*) as alternative livelihood**

Pearl spot seeds collected from the wild were stocked in the earthen ponds for rearing and fed with commercial feed. Pearl spot (*Etroplus suratensis*) brood stock has been developed by feeding dietary feed prepared for brood stock developed under in the SRP project.

Breeding of pearl spot in earthen ponds has been carried out for the production of pearl spot seeds. The seeds produced during the year 2021-22 have been given to Kumta farmer pond for the Paddy cum fish culture experiments.

Pearl spot seeds are also supplied to student, Aquatic Environment Management Department, College of Fisheries, Mangaluru for experimental purpose.

**ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLY**

**Title: Effect of dietary supplementation of combination of natural thiosulfinate, ciniamaldehyde and naththoquinone as growth promoter in broiler poultry production**

Completed the Research Trail on Commercial Broilers using combination of natural thiosulfinate, ciniamaldehyde and naththoquinone as growth promoter in broiler poultry production. The FCR, BWt gain, Carcass characteristics and other parameters are yet to subject for statistics analysis.

### 3. Research Collaborations / MoUs:

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

| #       | <i>Institutions involved in MOU</i> | <i>Date of MOU</i> | <i>Details Regarding MOU</i> | <i>Remarks</i> |
|---------|-------------------------------------|--------------------|------------------------------|----------------|
| - Nil - |                                     |                    |                              |                |

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

| #  | <i>Institutions involved in MOU</i>  | <i>Date of MOU</i> | <i>Details Regarding MOU</i>   | <i>Remarks</i> |
|--|--|--------------------|--|----------------|
| <b>DIRECTORATE OF RESEARCH, KVAFSU, BIDAR</b>  |  |                    |  |                |
| 1  | Ramaiah Institute of Technology, Bengaluru   | 03.01.2022         | Collaborative Research and developmental activities of FRIC-Hebbal, Bengaluru            | -              |
| 2  | Karnataka State Rural development and Panchayat Raj University, Gadag                                    | 03.01.2022         | Collaborative Research and developmental activities of KVAFSU, Bidar                     | -              |
| 3  | Karnataka Innovation and technology Society, Bengaluru   | 27.01.2022         | Collaborative Research and developmental activities of IAH&VB, Bengaluru.                | -              |
| 4  | Dept. of Electronics, information technology Biotechnology and science and technology Govt. of Karnataka | 07.03.2022         | Collaborative Research and developmental activities at College of Fisheries Mangaluru    | -              |
| 5  | Bay of Bengal Programme- Intergovernmental Organization (BOBP-IGO)                                       | 07.03.2022         | Collaborative Research and developmental activities at College of Fisheries Mangaluru    | -              |
| 6  | Virbac Animal Health India Pvt. Ltd, Mumbai.   | 07.03.2022         | Collaborative Research and developmental activities at Veterinary College, Bengaluru     | -              |
| 7  | Karnataka Skill Development Corporation Ltd, Bengaluru   | 07.03.2022         | Collaborative Research and developmental activities of KVAFSU, Bidar                     | -              |
| 8  | Yadgir Co-operative Milk Producers Societies Union Limited (GUNUL), Kalaburagi                           | 22.03.2022         | Collaborative Research and developmental activities at Dairy Science College, Kalaburagi | -              |
| <b>DIRECTORATE OF EXTENSION, KVAFSU, BIDAR</b> |  |                    |  |                |
| 1  | Karnataka Vocational Training and Skill Development Corporation Ltd., Karnataka                          | 05.03.2022         | To provide training programmes to the aspiring candidates                                | -              |

| <b>COLLEGE OF FISHERIES, MANGALURU</b>                   |                                    |            |  |  |
|--|------------------------------------|------------|--|--|
| 1  | KTECH, GoK                         | 28.03.2022 | Establishment of Advanced Biotech Innovation Centre-Aquamarine | -  |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA</b> |                                    |            |  |  |
| 1  | Agriculture Skill Council of India | 14.02.2022 | Conducting training programmes                                 | ASCI/RPL-Fisheries/2022/01 dt.14.02.2022 |

**4. Patents: - Nil –**

**5. Technology Developed:**

**VETERINARY COLLEGE, BENGALURU**

In-house direct Immunohistochemistry test developed for diagnosis of Rabies in animals

## 6. (a) Awards/Recognitions

| #                                    | Name of the Scientist  | Award   | Year           | Agency   |
|--------------------------------------|------------------------|---|----------------|--|
| <b>VETERINARY COLLEGE, BENGALURU</b> |                        |   |                |  |
| 1                                    | D. Rathnamma           | Dr. APJ Abdul Kalam Lifetime Achievement National Award                         | 2022           | International Institute For Social and Economic Refomrs (R), Bengaluru   |
| 2                                    | Girish, M.H.           | Best Paper Award  | 2022           | IAVA   |
| 3                                    | G.P. Kalmath           | Reviewer Excellence Award   | November, 2021 | Agricultural Research Communication Center (ARCC)  |
| 4                                    | H.C. Indresh           | Best Poultry Scientist Award  | 2021           | Pashudahan Praharee Poultry Organization, Delhi  |
| 5                                    | H.C. Indresh           | Best E-Poster Presentation Award  | 2021           | TANUVAS  |
| 6                                    | H.C. Indresh           | AdarshVidyaSaraswati Rashtriya Puraskar-National Award of Excellence 2020 Award | 2021           | Global Management Council, Glacier Journal research Foundation, Ahmedabad  |
| 7                                    | M. Narayana Swamy      | Reviewer Excellence Award   | June, 2021     | Agricultural Research Communication Center (ARCC)  |
| 8                                    | Pavithra, B.H.         | Member, approved by CPCSEA  | 2021           | IAEC-Institutional Animal Ethics committee for Veterinary College, Bengaluru   |
| 9                                    | Pavithra, B.H.         | Post graduate diploma in animal welfare   | 2021           | Indira Gandhi National Open University   |
| 10                                   | Prabhu, T. M.          | Reviewer Excellence Award   | 2022           | ARCC Journals, India   |
| 11                                   | Prabhu, T. M.          | CEC Member  | 2022-24        | Animal Nutrition Association, India  |
| 12                                   | Prabhu, T. M.          | Member, Editorial Board, Indian Journal of Animal Nutrition                     | 2022-24        | Animal Nutrition Society of India  |
| 13                                   | Ramesh, H.S.           | Mahima Promising Scientist Award  | 2021           | Mahima Research Foundation and Social Welfare  |
| 14                                   | Rashmi Rajashekaraiiah | Nominee of CPCSEA   | 2021           | CPCSEA, Government of India  |
| 15                                   | Rashmi Rajashekaraiiah | Best Ph.D. Thesis Award”  | 2021           | Indian Society of Veterinary Pharmacology & Toxicology (ISVPT)   |
| 16                                   | Santhosh, C.R.         | Member secretary, approved by CPCSEA  | 2021           | IAEC-Institutional animal ethics committee for Veterinary College, Bengaluru   |
| 17                                   | Suchitra, B.R.         | Second Best Research Paper Award  | 2021           | International symposium on Novel Knowledge, innovative practices and research in Theriogenology, held b/w 27 <sup>th</sup> and 29 <sup>th</sup> , December-2021 by ISSAR |

|                                  |                 |  |                |   |
|----------------------------------|-----------------|--|----------------|---|
| 18                               | Suma, N.        | CEC Member   | 2022-24        | Animal Nutrition Society of India   |
| 19                               | Suma, N.        | Best Poster during 13 <sup>th</sup> National Women's Science Congress  | 2021           | Swadeshi Vijnana Andolan-Karnataka, Bengaluru   |
| 20                               | Veena, M.P.     | Best Faculty of the year 2021  | December, 2021 | Center for Education Growth and Research  |
| 21                               | Veena, M.P.     | Outstanding Women Researcher in Veterinary Physiology  | March, 2022    | Venus International Foundation  |
| <b>VETERINARY COLLEGE, BIDAR</b> |                 |  |                |   |
| 1                                | Naik, D.T.      | Dr. B V Rao poultry professional national award  | 2021           | -   |
| 2                                | Naik, D.T.      | Dr.APJ Abdul kalam life time achievement national award for remarkable acievments in field of out teaching, research and publications                                  | 2022           | International institution for social and economic reforms (R) Bengaluru NAAC the community of UGC   |
| 3                                | Kiran, M.       | IMSA-Prof .K. Sudhakar Reddy JMS best paper award-2020   | 2021           | Indian Meat Science Association   |
| 4                                | Kiran, M.       | Best Paper award (second prize) during IMSACON-X and International symposium on Holistic approaches to the meat food quality and safety in continuum from farm to fork | 2021           | Indian Meat Science association   |
| 5                                | Kiran, M.       | Most engaging video presentation (Life Sciences) during Asian conference of Science, technology and medidcine  | 2021           | Asian council of science editors  |
| 6                                | Vijay Kumar, M. | Advisory Board Member<br>Editorial Member<br><br>Reviewer  | 2022           | Indian Journal of Veterinary Public Health<br>International Research Journal of Pharmacy<br>International Journal of Food and Additives and Dietics<br>Livestock Line<br>Gene |

|    |                     |   |      |   |
|----|---------------------|---|------|---|
| 7  | Krishnamurthy, C.M. | Best poster Award   | 2021 | IAAVP- 30 <sup>th</sup> National Congress of Veterinary Parasitology and National Symposium on “Fundamentals of Integrated Parasite Management and its Relevance in One Health” College of Veterinary and Animal Sciences, Parbhani, 14 <sup>th</sup> – 16 <sup>th</sup> December, 2021 |
| 8  | Adeppa, J.          | Best poster Award   | 2021 | IAAVP- 30 <sup>th</sup> National Congress of Veterinary Parasitology and National Symposium on “Fundamentals of Integrated Parasite Management and its Relevance in One Health” College of Veterinary and Animal Sciences, Parbhani, 14 <sup>th</sup> – 16 <sup>th</sup> December, 2021 |
| 9  | Bhagavantappa, B.   | Second best oral presentation in small animal surgery session   | 2021 | Society of Postgraduates in Veterinary Surgery Karnataka (SPGVS) 13 <sup>th</sup> Nov 2021  |
| 10 | Dilipkumar, D.      | Second best oral presentation in small animal surgery session   | 2021 | Society of Postgraduates in Veterinary Surgery Karnataka (SPGVS) 13 <sup>th</sup> Nov 2021  |
| 11 | Venkatgiri          | Second best oral presentation in small animal surgery session   | 2021 | Society of Postgraduates in Veterinary Surgery Karnataka (SPGVS) 13 <sup>th</sup> Nov 2021  |
| 12 | Bhagavantappa, B.   | Second best poster presentation in small animal surgery session | 2021 | Society of Postgraduates in Veterinary Surgery Karnataka (SPGVS) 13 <sup>th</sup> Nov 2021  |
| 13 | Dilipkumar, D.      | Second best poster presentation in small animal surgery session | 2021 | Society of Postgraduates in Veterinary Surgery Karnataka (SPGVS) 13 <sup>th</sup> Nov 2021  |
| 14 | Venkatgiri          | Second best poster presentation in small animal surgery session | 2021 | Society of Postgraduates in Veterinary Surgery Karnataka (SPGVS) 13 <sup>th</sup> Nov 2021  |
| 15 | Bhagavntappa, B.    | Gold medal award for best oral presentation in avian session    | 2022 | 44 <sup>th</sup> Annual Congress of ISVS and National Symposium at Panatnagar 24-26 <sup>th</sup> Feb 2022  |
| 16 | Dilipkumar, D.      | Gold medal award for best oral presentation in avian session    | 2022 | 44 <sup>th</sup> Annual Congress of ISVS and National Symposium at Panatnagar 24-26 <sup>th</sup> Feb 2022  |



|                                       |  |  |      |  |
|---------------------------------------|--|--|------|--|
| 17                                    | Venkatgiri   | Gold medal award for best oral presentation in avian session   | 2022 | 44 <sup>th</sup> Annual Congress of ISVS and National Symposium at Panatnagar 24-26 <sup>th</sup> Feb 2022   |
| 18                                    | Venkanagouda<br>Doddagoudar<br>and Bijurkar R.G.   | Best Clinical Case Paper Presentation (Third Prize)  | 2021 | Department of Veterinary Clinical Medicine, PGIVS, Akola (M.S)   |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |  |  |      |  |
| 1                                     | Ananda, K.J.,<br>Yashas D. Vodeyar<br>and Kiran, S. K.                                     | Best Poster Award for the paper “Phenotypic Characterisation of Haemophysalis tick species from western ghat region of Shivamogga, Karnataka”                            | 2021 | 30 <sup>th</sup> NCVP and National Symposium on “Fundamentals of integrated parasite management and its relevance in One health”, organized by College of Veterinary and Animal Sciences, Parbhani, MH |
| 2                                     | Malatesha, D.S.,<br>Arvinda, K. and<br>Ananda, K.J.  | Best Paper presentation Award for the paper “Immunological and Molecular diagnosis of filarid nematodes of dogs from Karnataka”  | 2021 | 30 <sup>th</sup> NCVP and National Symposium on “Fundamentals of integrated parasite management and its relevance in One health”, organized by College of Veterinary and Animal Sciences, Parbhani     |
| 3                                     | B.S. Pradeep,<br>Ravipati Venu, K.J.<br>Ananda, Siju, S., Ch.<br>Srilatha & Vinod<br>Kumar | Best Paper presentation Award for the paper “Distribution pattern of zoonotic cryptosporidium spp. in domestic ruminants of Karnataka state by genetic characterization” | 2021 | 30 <sup>th</sup> NCVP and National Symposium on “Fundamentals of integrated parasite management and its relevance in One health”, organized by College of Veterinary and Animal Sciences, Parbhani, MH |
| 4                                     | B.S. Pradeep,<br>Ravipati Venu, K.J.<br>Ananda, Ch.<br>Srilatha, Vinod<br>Kumar, Siju, S.  | Best Poster Award for the paper “Molecular detection and associated risk factors of cryptosporidium in young domestic ruminants of Karnataka State”                      | 2021 | 30 <sup>th</sup> NCVP and National Symposium on “Fundamentals of integrated parasite management and its relevance in One health”, organized by College of Veterinary and Animal Sciences, Parbhani, MH |
| 5                                     | B.S. Pradeep,<br>Ravipati Venu, K.J.<br>Ananda, Ch.<br>Srilatha, Vinod<br>Kumar, Siju, S.  | Best Poster Award for the paper “Parasitological detection and associated risk factors of cryptosporidium in young domestic ruminants of Karnataka state”                | 2021 | 30 <sup>th</sup> NCVP and National Symposium on “Fundamentals of integrated parasite management and its relevance in One health”, organized by College of Veterinary and Animal Sciences, Parbhani, MH |
| 6                                     | Lakshmishree K T   | Reviewer excellence award  | 2021 | Indian journal of Animal Research(IJAR)  |
| 7                                     | Dhoolappa M  | Swachhta Sarati Fellowship   | 2021 | Waste to Wealth Mission, office of PSA   |

|    |                                 |   |  |   |
|----|---------------------------------|---|--|---|
| 8  | Lakshmishree K T                | Late Dr. D.S. Grover memorial award for clinical anatomy and multidisciplinary approach   | 2022   | 35 <sup>th</sup> Annual convention & International symposium of Indian Association of Veterinary Anatomists(IAVA) |
| 9  | Dhoolappa M                     | Dr .K.S. Roy award for Best paper in Histo-enzymology and immunohistochemistry  | 2022   | 35 <sup>th</sup> Annual convention & International symposium of Indian Association of Veterinary Anatomists(IAVA) |
| 10 | Lakshmishree K T                | Reviewer excellence award   | 2022   | Indian journal of Animal Research(IJAR)   |
| 11 | R. Jayashree and Sateesha, G.M, | Best E-Poster award for the poster on “Value addition a conservation strategy for Malnad Gidda Breed” in the National conference on Animal Breeding Startegies in the era of Genomics & Phenomics XV Annual Convention of ISAGB | 17 <sup>th</sup> & 18 <sup>th</sup> Dec 2021 | Indian Society of Animal genetics and breeding NBAGR, Karnal  |

**VETERINARY COLLEGE, HASSAN**

|   |  |  |      |  |
|---|--|--|------|--|
| 1 | Nagappa Karabasanavar, Satheesha S.P., Archana S. Nair, Manjushree T.R., Dept. of VPE. | Best poster presentation award for the research article entitled “Virulence genes and antimicrobial resistance in non-typoidal Salmonella serovards isolated from pigs of the central Karnataka region, India” | 2021 | XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized online by GADVASU, Ludhiana on 28-29 May, 2021   |
| 2 | M. Veena Dept. of VPA  | Best oral presentation award   | 2021 | XXX National congress of Veterinary Parasitology and National symposium on “Fundamentals of Integrated Parasite Management and its Relevance in One Health organized by College of Veterinary and Animal Sciences, Parbhani, MAFSU, 14 <sup>th</sup> -16 <sup>th</sup> December 2021 |

**VETERINARY COLLEGE, GADAG**

|   |                |                                   |      |        |
|---|----------------|-----------------------------------|------|--------|
| 1 | Santosh Sajjan | Prof. Mahendra Pal Zoonoses Award | 2021 | IAVPHS |
|---|----------------|-----------------------------------|------|--------|

|   |                           |   |             |   |
|---|---------------------------|---|-------------|---|
| 2   | Jahangirbhasha, D.        | Best paper presentation SPGVS conference at Bidar                                   | Nov-2021    | SPGVS   |
| 3   | Pradip, B.S.              | Best Poster Presentation Award  | 2021        | IAAVP   |
| 4   | Nandini                   | Young Scientist Award   | 2021        | IAAVP   |
| <b>DAIRY SCIENCE COLLEGE, BENGALURU</b>                             |                           |   |             |   |
| 1   | Harinivenugopal           | Best Paper Presentation Award   | 2021        | 13 <sup>th</sup> National Women Science Congress on CURCUMIN- A Natural Bioactive Component for Dairy Products organized by NMKRVCW , Bengaluru   |
| <b>DAIRY SCIENCE COLLEGE, KALABURAGI</b>                            |                           |   |             |   |
| 1   | Manjunatha H              | Dr APJ Abdul Kalam life time achievement national award                             | April, 2021 | National institute for socio economic development(R), Bengaluru   |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b> |                           |   |             |   |
| 1   | Prakashkumar Rathod       | National Excellence Award under Social Impact Category                              | Oct, 2021   | Pashudhan Praharee  |
| 2   | Prakashkumar Rathod       | Appreciation Certificate  | Nov, 2021   | Pashudhan Praharee (National Recognition)   |
| 3   | Prakashkumar Rathod       | Young Scientist Award   | Dec, 2021   | Society for Scientific Development in Agriculture and Technology  |
| 4   | Prakashkumar Rathod       | Editorial Board Member of National Journal  | 2021-22     | Indian Journal of Veterinary Science and Biotechnology  |
| 5   | Prakashkumar Rathod       | Editorial Board Member of International Journal                                     | 2021-22     | International Journal of Livestock Research   |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (A), KONEHALLY</b>     |                           |   |             |   |
| 1   | Harish Shenoy             | Best Scientist Award  | 2021        | Sabujeema - An International Multidisciplinary e-Magazine   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>      |                           |   |             |   |
| 1   | Ravindragouda Patil       | Best Researcher Award   | 2021        | International Scientist Awards on Engineering, Science and Medicine at Vishakhapatnam, India organized by VD Good Professional Association, India |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b>                  |                           |   |             |   |
| 1   | Shambhulingappa, Y. Baddi | Selected as Associate Editor for Indian Journal of Veterinary Anatomy (IJVA), India | 2022        | Indian Association of Veterinary Anatomists (IAVA), India   |

b) Research Incentives: - Nil -

**7) Important decisions taken during 16<sup>th</sup> Research Council Meeting held on 22.12.2021 at KVAFSU, Bidar**

- Dr. Nagendra Hegde, Scientist-H, NIAB, Hyderabad suggested to focus on long term projects and also to write collaborative research projects with national institutes. He also insisted to publish quality research papers in reputed journals.
- Dr. Gopukumar, DLG, Mysuru suggested to focus on projects based in field problems and to address management practices of livestock. He also insisted to develop vaccines for emerging diseases.
- Sri. Srinivas Acharya, Mysuru suggested to take up studies on animal waste such as urine and dung for their efficient utilization in various farms. He also insisted to conduct research on milk and manure of goat to evaluate their value.
- Prof. H.D. Narayanaswamy, Vice-Chancellor, KVAFSU, Bidar insisted scientists to undertake collaborative research projects.

### 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) Conferences:

| #                                       | Date       | Place | Title   | Organized by                                   |
|---|------------|-------|---|--|
| <b>VETERINARY COLLEGE, HASSAN (HVC)</b> |            |       |   |  |
| 1                                       | 04.09.2020 | HVC   | One health perspectives of antimicrobial resistance | Indian Association of VPH Specialists (IAVPHS) |

##### b) Workshops:

| #     | Date | Place | Title | Organized by |
|-------|------|-------|-------|--------------|
| -Nil- |      |       |       |              |

##### c) Seminars:

| #     | Date | Place | Title | Organized by |
|-------|------|-------|-------|--------------|
| -Nil- |      |       |       |              |

##### d) Symposia:

| #     | Date | Place | Title | Organized by |
|-------|------|-------|-------|--------------|
| -Nil- |      |       |       |              |

##### e) Trainings:

| #  | Date                           | Place                    | Title                            | Organized by    |
|--|--------------------------------|--------------------------|----------------------------------|-----------------|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                                |                          |                                  |                 |
| 1  | 11.10.2021<br>to<br>13.10.2021 | VCH<br>(Virtual<br>Mode) | Rabies serology for SAARC region | OIE and VMC-VCH |

##### ii) National Level

##### a) Conferences:

| #   | Date       | Place | Title   | Organized by                      |
|---|------------|-------|---|-----------------------------------|
| <b>VETERINARY COLLEGE, BIDAR (VCB)</b>                  |            |       |   |                                   |
| 1   | 13.11.2021 | VCB   | Fracture management in large and small animals              | VSR-VCB                           |
| <b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU ( DSCH)</b> |            |       |   |                                   |
| 1   | 22.03.2022 | DSCH  | Microbes beyond lactic acid bacteria as emerging probiotics | Dept. of Dairy Microbiology, DSCH |

**b) Workshops:**

| #   | Date                     | Place                                   | Title   | Organized by  |
|---|--------------------------|---|---|---|
| <b>VETERINARY COLLEGE, BIDAR (VCB)</b>                                |                          |   |   |   |
| 1   | 11.03.2022               | VCB                                     | Hygienic production of foods of animal origin   | ICAR-NRCM, Hyderabad  |
| <b>VETERINARY COLLEGE, HASSAN (HVC)</b>                               |                          |   |   |   |
| 1   | 12.10.2021               | HVC                                     | AI workers on advances in AI technique  | HVC   |
| 2   | 18.03.2022               | HVC                                     | Recent diagnostic techniques in livestock diseases for Veterinary Officers            | SCSP/TSP Unit, HVC  |
| 3   | 23.03.2022 to 24.03.2022 | HVC                                     | Brain sample collection, packaging, transportation and diagnosis of rabies in animals | KVAFSU Bidar, HVC, KVAFSU-CVA-RDL-VCH                           |
| <b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>                          |                          |   |   |   |
| 1   | 21.11.2021               | Mangaluru                               | World Fisheries Day 2021  | Dept. of FESE, FCM  |
| 2   | 24.09.2021               | Tannirbhavi Beach, Mangaluru            | International Coastal Cleanup Day 2021  | Dept. of FESE, FCM  |
| 3   | 22.03.2022 to 24.03.2022 | ICAR-CIFRI, Barrachpore, Kolkata, India | Priming Indian fisheries in attaining sustainable development goals                   | Dept. of AEM, FCM; IFSI, ICAR, SAP, OFCAAR, AIASA and AQUA POST |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b> |                          |   |   |   |
| 1   | 28.03.2022               | FRIC, Bhutnal, Vijayapura               | Fish processing and methods of preservation   | FRIC, Bhutnal, Vijayapura                                       |
| 2   | 17.09.2021               | FRIC, Bhutnal, Vijayapura               | Present scenario of aquaculture and its scope   | FRIC, Bhutnal, Vijayapura                                       |

**c) Seminars:**

| #  | Date                     | Place      | Title   | Organized by  |
|--|--------------------------|------------|---|---|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                          |            |   |   |
| 1  | 06.07.2021               | VCH        | Programme for strengthening inter-sectoral coordination for prevention and control of zoonotic diseases | KVAFSU-CVA-RDL, VMC-VCH                                   |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b>      |                          |            |   |   |
| 1  | 09.06.2021               | Shivamogga | Scope of Indian veterinary students for higher education in USA   | VCS   |
| <b>VETERINARY COLLEGE, HASSAN</b>          |                          |            |   |   |
| 1  | 01.07.2021 to 07.07.2021 | Hassan     | World Zoonoses Day-2021   | HVC   |
| 2  | 29.11.2021               | HVC        | Dr. Verghese Kurien's birth centenary celebrations and National Milk Day-2021                           | HVC, IDA-South Zone - ICAR-NIANP, HAMUL and DAH&VS Hassan |
| 3  | 28.09.2021               | HVC        | One day technical seminar on rabies   | HVC and CVA   |

| <b>VETERINARY COLLEGE, GADAG</b>                        |            |                                  |   |   |
|---|------------|----------------------------------|---|---|
| 1   | 24.04.2021 | DAH&VS<br>Gadag<br>(Online Mode) | Technical seminar for officers of Dept. of AH&VS on World Veterinary Day – Response of Veterinarians to COVID – 19 Pandemic | VCG and Dept. of AH&VS                      |
| <b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU</b>         |            |                                  |   |   |
| 1   | 29.10.2021 | DSCH                             | Post-graduation - A Stepping Stone for career advancement?  | Dept. of Dairy Microbiology, DSCH           |
| 2   | 14.02.2022 | DSCH                             | Bacteriophage – Enemy or Ally   | Dept. of Dairy Microbiology, DSCH           |
| <b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>            |            |                                  |   |   |
| 1   | 22.03.2022 | Mangaluru                        | Valuing water for present and future  | Dept of FESE, FCM                           |
| <b>KRISHI VIGYAN KENDRA, DAKSHINA KANNADA-MANGALURU</b> |            |                                  |   |   |
| 1   | 20.05.2021 | (Online)                         | World Honey bee Day   | KVK-DK in association with DATC Belthangady |
| 2   | 01.06.2021 | (Online)                         | World Milk Day  | KVK-DK in association with KMF, Mangaluru   |
| 3   | 17.02.2022 | PACS,<br>Suliya                  | Block level seminar of scientific coconut cultivation and value addition  | ICAR-KVK DK and CDB Bengaluru               |
| 4   | 14.03.2022 | KVK-DK                           | Block level seminar of scientific coconut cultivation and value addition  | ICAR-KVK DK and CDB Bengaluru               |

**d) Symposia:**

| #       | Date | Place | Title | Organized by |
|---------|------|-------|-------|--------------|
| - Nil - |      |       |       |              |

**e) Trainings:**

| #  | Date                           | Place                 | Title   | Organized by  |
|--|--------------------------------|-----------------------|---|---|
| <b>VETERINARY COLLEGE, BENGALURU (VCH)</b> |                                |                       |   |   |
| 1  | 06.07.2021                     | VCH                   | 'Program for strengthening inter-sectoral coordination for prevention and control of zoonotic diseases' as a part of world zoonoses day -2021 | VCH in coordination with Dept. of VMC, VPH and NCDC |
| 2  | 17.02.2022<br>to<br>18.02.2022 | VCH<br>(Virtual Mode) | Collection of brain sample and laboratory diagnosis of rabies   | KVAFSU-CVA-RDL, VMC-VCH                             |
| 3  | 01.03.2022<br>to<br>29.03.2022 | VCH                   | Dairy farmer / entrepreneur under CMKKY   | LFC-VCH and KSDC-Bengaluru                          |
| 4  | 15.03.2022<br>to<br>16.03.2022 | VCH                   | Academic and administrative training for SC and ST teaching staff   | SCSP/TSP Grants, VCH                                |
| 5  | 16.03.2022<br>to<br>19.03.2022 | VCH                   | Hands on training on collection of brain sample and laboratory diagnosis of rabies  | KVAFSU-CVA-RDL, VMC-VCH                             |

|   |                                |                      |  |                            |
|---|--------------------------------|----------------------|--|----------------------------|
| 6   | 22.03.2022<br>to<br>23.03.2022 | VCH                  | Administrative training for SC and ST non-teaching staff   | SCSP/TSP Grants, VCH       |
| <b>VETERINARY COLLEGE, BIDAR (VCB)</b>      |                                |                      |  |                            |
| 1   | 22.03.2022                     | VCB                  | Hands on training on poultry farming (ICAR-TSP)  | VCB under ICAR-TSP         |
| 2   | 13.11.2021<br>to<br>14.11.2021 | VCB                  | Emerging horizons in large animal surgery, post mortem techniques and managerial practices in livestock unit | VCB under SCP-TSP          |
| 3   | 29.11.2021<br>to<br>30.11.2021 | VCB<br>(Online)      | Advances in animal healthcare and production   | VCB                        |
| 4   | 27.01.2022<br>to<br>28.01.2022 | VCB                  | Improved dairy farming   | VCB under ICAR-SCSP Grants |
| 5   | 17.02.2022                     | VCB                  | Scientific sheep farming   | VCB                        |
| 6   | 08.03.2022<br>to<br>10.03.2022 | VCB                  | Scientific poultry farming   | VCB                        |
| 7   | 18.01.2022                     | VCB                  | HRMS in service particulars  | VCB                        |
| 8   | 30.08.2021<br>to<br>01.09.2021 | VCB                  | Ultrasound scanning to the Veterinary Officers, Dept. of AH&VS, GoK  | VSR-VCB                    |
| 9   | 21.02.2022<br>to<br>23.02.2022 | VCB                  | Entrepreneurship development through goat farming  | VGO-VCB                    |
| 10  | 21.02.2022<br>to<br>23.02.2022 | VCB                  | Skill development through goat farming   | VGO-VCB                    |
| 11  | 24.02.2022<br>to<br>26.02.2022 | VCB                  | Entrepreneurship development through poultry farming   | VGO-VCB                    |
| 12  | 24.02.2022<br>to<br>26.02.2022 | VCB                  | Skill development through poultry farming  | VGO-VCB                    |
| <b>VETERINARY COLLEGE, SHIVAMOGGA (VCS)</b> |                                |                      |  |                            |
| 1   | 05.01.2022<br>to<br>06.01.2022 | VCS                  | Importance of Malnad Gidda breed of cattle and value addition to various products                            | Dept. of AGB, MGR&IC, VCS  |
| 2   | 16.06.2021                     | VCS<br>(Online Mode) | Scientific sheep and goat farming  | Dept. of LFC, VCS          |
| 3   | 22.06.2021                     | VCS<br>(Online Mode) | Profitable dairy farming   | Dept. of LFC, VCS          |
| 4   | 24.06.2021                     | VCS<br>(Online Mode) | Scientific poultry farming   | Dept. of LFC, VCS          |
| 5   | 05.07.2021                     | VCS<br>(Online Mode) | Value added milk products of Malnad Gidda breed  | Dept. of AGB, MGR&IC-VCS   |



|    |                                |                      |  |                              |
|----|--------------------------------|----------------------|--|------------------------------|
| 6  | 07.07.2021                     | VCS<br>(Online Mode) | Introduction of different fodder varieties and their cultivation practices and tree fodder seedling production | Dept. of AGB,<br>MGR&IC-VCS  |
| 7  | 14.07.2021                     | VCS<br>(Online Mode) | Production of various products from dung and urine for organic farming practices                               | Dept. of AGB,<br>MGR&IC-VCS  |
| 8  | 01.07.2021                     | VCS<br>(Online Mode) | Scientific feeding management in livestock   | Dept. of LFC, VCS            |
| 9  | 02.07.2021                     | VCS<br>(Online Mode) | Scientific sheep and goat farming  | Dept. of LFC, VCS            |
| 10 | 07.07.2021                     | VCS<br>(Online Mode) | Scientific fodder feeding management in livestock  | Dept. of LFC, VCS            |
| 11 | 12.07.2021                     | VCS<br>(Online Mode) | Scientific piggery farming   | Dept. of LFC, VCS            |
| 12 | 29.12.2021<br>to<br>30.12.2021 | VCS                  | Scientific sheep and goat farming  | EEC and Dept. of<br>VAE, VCS |
| 13 | 06.01.2022<br>to<br>08.01.2022 | VCS                  | Scientific poultry farming   | EEC and Dept. of<br>VAE, VCS |
| 14 | 04.02.2022                     | VCS<br>(Online Mode) | Scientific poultry farming   | Dept. of LFC-VCS             |
| 15 | 08.02.2022                     | VCS<br>(Online Mode) | Scientific dairy farming   | Dept. of LFC-VCS             |
| 16 | 25.02.2022                     | VCS<br>(Online Mode) | Scientific sheep and goat farming  | Dept. of LFC-VCS             |

**VETERINARY COLLEGE, HASSAN (HVC)**

|    |                                |                       |                            |                             |
|----|--------------------------------|-----------------------|----------------------------|-----------------------------|
| 1  | 11.03.2022<br>to<br>12.03.2022 | HVC                   | Writing Research Proposals | HVC under<br>SCSP-TSP Grant |
| 2  | 12.07.2021                     | Kudurugundi           | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 3  | 12.07.2021                     | Chigatihalli          | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 4  | 16.07.2021                     | Bramhadevarah<br>alli | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 5  | 16.07.2021                     | Neerugunda            | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 6  | 19.07.2021                     | Mudigere              | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 7  | 19.07.2021                     | Chigatihalli          | Native poultry production  | HVC under<br>ICAR-TSP Grant |
| 8  | 23.07.2021                     | Kondavagilu           | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 9  | 27.07.2021                     | Thippagatta           | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |
| 10 | 27.07.2021                     | Valehalli             | Brooding of native chicks  | HVC under<br>ICAR-TSP Grant |

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| 11 | 04.08.2021               | Kalasadarahalli   | Brooding of native chicks  | HVC under ICAR-TSP Grant   |
| 12 | 04.08.2021               | Gollarahalli      | Brooding of native chicks  | HVC under ICAR-TSP Grant   |
| 13 | 12.08.2021               | Chigatihalli      | Native poultry production  | HVC under ICAR-TSP Grant   |
| 14 | 12.08.2021               | Kudarugundi       | Native poultry production  | HVC under ICAR-TSP Grant   |
| 15 | 12.08.2021               | Brahmadevarahalli | Native poultry production  | HVC under ICAR-TSP Grant   |
| 16 | 03.09.2021               | Mudigere          | Native poultry production  | HVC under ICAR-TSP Grant   |
| 17 | 03.09.2021               | Kondavagilu       | Native poultry production  | HVC under ICAR-TSP Grant   |
| 18 | 16.09.2021               | Kalasadarahalli   | Native poultry production  | HVC under ICAR-TSP Grant   |
| 19 | 16.09.2021               | Gollarahalli      | Native poultry production  | HVC under ICAR-TSP Grant   |
| 20 | 12.10.2021               | Valehalli         | Native poultry production  | HVC under ICAR-TSP Grant   |
| 21 | 12.10.2021               | Thippagatta       | Native poultry production  | HVC under ICAR-TSP Grant   |
| 22 | 27.12.2021               | HVC               | Management of native chicks  | HVC under ICAR-TSP Grant   |
| 23 | 28.12.2021               | HVC               | Management of native chicks  | HVC under ICAR-TSP Grant   |
| 24 | 31.12.2021               | HVC               | Management of native chicks  | HVC under ICAR-TSP Grant   |
| 25 | 06.01.2022               | HVC               | Management of native chicks  | HVC under ICAR-TSP Grant   |
| 26 | 21.06.2021               | HVC               | Yoga at home and yoga with family  | HVC  |
| 27 | 09.03.2022               | HVC               | Hinurasugalalli unne niyanthranakkagi parisara snehi manemaddina tayarike hagu balake kurithada tarabhethi karyagara | HVC  |
| 28 | 06.01.2022 to 07.01.2022 | HVC               | Scientific pig rearing   | VAHEE & EEC, HVC   |
| 29 | 08.02.2022 to 09.02.2022 | HVC               | Scientific poultry rearing   | VAHEE & EEC, HVC   |
| 30 | 10.03.2022               | HVC               | Scientific sheep rearing   | Chickamangalur Sheep Farmers Producers Organization (FPO) & VAHEE & EEC, HVC |

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| 31   | 01.02.2022<br>To<br>21.02.2022 | Ranchi,<br>Jharkhand<br>(Online Mode) | Recent technologies of livestock based integrated farming system for doubling farmers income | CVS&AH, Birsa Agricultural University, Ranchi, Jharkhand; NFDCL and VCS |
| 32   | 27.12.2021                     | HVC                                   | Scientific poultry rearing and management  | Dept of LFC under TSP, HVC  |
| 33   | 08.02.2022<br>to<br>14.02.2022 | HVC                                   | E-coaching classes for IAS, IPS, IRS, IFS, KAS competitive examinations                      | SCSP/TSP Cell, HVC  |
| <b>VETERINARY COLLEGE, GADAG (VCG)</b>                 |                                |                                       |  |   |
| 1  | 20.01.2022<br>to<br>22.01.2022 | VCG                                   | Good animal husbandry and veterinary practices for doubling of farmers' income               | VCG and MANAGE, Hyderabad   |
| 2  | 18.11.2021<br>to<br>20.11.2021 | VCG                                   | Improved dairy farming practices   | VCG under sponsorship by SAMETI (North), UAS, Dharwad                   |
| 3  | 30.06.2021                     | VCG<br>(Online Mode)                  | Infertility in livestock and its management  | VCG   |
| 4  | 23.08.2021<br>to<br>25.08.2021 | Neelagund,<br>Gadag taluk             | Scientific dairy farming practices   | VCG (SKDRDP) and DAH&VS, Gadag  |
| 5  | 11.03.2022<br>to<br>13.03.2022 | Kadacol,<br>Tq. Shirahatti            | Scientific sheep and goat rearing  | VCG and DAH&VS, Gadag   |
| 6  | 24.03.2022<br>to<br>26.03.2022 | Harlapur,<br>Tq. Gadag                | Scientific poultry farming   | VCG   |
| <b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b> |                                |                                       |  |   |
| 1  | 06.12.2021<br>to<br>08.12.2021 | DSCH                                  | Preparation of value added milk and milk products  | Dept. of Dairy Technology, DSCH   |
| 2  | 03.01.2022<br>to<br>05.01.2022 | DSCH                                  | Preparation of value-added milk and milk products  | Dept. of Dairy Technology, DSCH   |
| 3  | 15.02.2022                     | DSCH                                  | Processing and production of milk and milk products  | Dept. of Dairy Technology, DSCH   |
| 4  | 22.02.2022                     | DSCH                                  | Processing and production of milk and milk products  | Dept. of Dairy Technology, DSCH   |
| 5  | 07.03.2022                     | DSCH                                  | Processing and production of milk and milk products  | Dept. of Dairy Technology, DSCH   |
| 6  | 08.03.2022                     | DSCH                                  | Processing and production of milk and milk products  | Dept. of Dairy Technology, DSCH   |
| <b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>           |                                |                                       |  |   |
| 1  | 09.02.2022                     | FCM                                   | Value added fish products and marketing opportunities  | Dept. of FPT-FCM  |

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| 2 | 07.03.2022<br>to<br>09.03.2022 | FCM  | Improved methods of dry fish processing and value-added fish products and marketing opportunities | Dept. of FPT-FCM |
| 3 | 14.03.2022<br>to<br>15.03.2022 | Snehakunja Trust,<br>Kasarkod,<br>Honnavar, UK | Improved methods of dry fish processing   | Dept. of FPT-FCM |

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

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|----|--------------------------------|---|---|----------------|
| 1  | 31.01.2022<br>to<br>21.02.2022 | IAH&VB  | Recent advances in current Good Manufacturing Practices (cGMP) with respect to veterinary vaccines and biologicals    | IAH&VB         |
| 2  | 26.07.2021<br>to<br>02.08.2021 | IAH&VB  | cGMP Module II training for all the officers and technicians of BP and QMS departments of IAH&VB                      | IAH&VB         |
| 3  | 08.11.2021<br>to<br>21.12.2021 | IAH&VB  | cGMP Module III training for all the officers and technicians of BP and QMS departments of IAH&VB                     | IAH&VB         |
| 4  | 23.08.2021<br>to<br>27.08.2021 | Hesaraghatta,<br>Bengaluru                                  | Diagnosis of sexually transmitted disease, Tuberculosis and Johnes disease in Breeding Bulls at Nandini Semen Station | IAH&VB         |
| 5  | 18.09.2021                     | Kangod,<br>Siddapur   | Profitable dairy farming  | ADDL&IC, Sirsi |
| 6  | 20.11.2021                     | Hegdekatta,<br>Sirsi  | Ethnoveterinary practices for animals   | ADDL&IC, Sirsi |
| 7  | 25.01.2022                     | KVK, Sirsi,<br>Uttara Kannada                               | Backyard poultry farming  | ADDL&IC, Sirsi |
| 8  | 4.02.2022                      | VH Siddapur,<br>Uttara Kannada                              | Management and disease prevention for profitable dairying   | ADDL&IC, Sirsi |
| 9  | 5.02.2022                      | Jayanti High School<br>Banavasi, Sirsi,<br>Uttara Kannada   | Rabies awareness  | ADDL&IC, Sirsi |
| 10 | 15.02.2022                     | Kadabal, Sirsi<br>(UK)                                      | Zoonotic diseases and prevention  | ADDL&IC, Sirsi |
| 11 | 25.01.2022                     | KVK, Sirsi,<br>Uttara Kannada                               | Backyard poultry farming  | ADDL&IC, Sirsi |
| 12 | 10.01.2022                     | Govt. Junior College, Bilur,<br>Sirsi (UK)                  | Rabies awareness  | ADDL&IC, Sirsi |
| 13 | 11.01.2022                     | Govt. Junior College,<br>Banavasi, Sirsi,<br>Uttara Kannada | Rabies awareness  | ADDL&IC, Sirsi |
| 14 | 12.01.2022                     | Sriniketana High School,<br>Sirsi(UK)                       | Rabies awareness  | ADDL&IC, Sirsi |

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| 15  | 13.01.2022                     | Lion's High School<br>Sirsi (UK)         | Rabies awareness   | ADDL&IC, Sirsi   |
| 16  | 28.09.2021                     | Sadashivalli,<br>Sirsi<br>Uttara Kannada | Rabies, FMD and Brucellosis<br>diseases, prevention  | ADDL&IC, Sirsi   |
| <b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)</b>     |                                |  |  |  |
| 1   | 09.12.2021                     | IWVR,<br>Doddaluvara                     | Human wildlife conflict and its<br>possible solutions  | IWVR, Doddaluvara  |
| 2   | 16.02.2022                     | IWVR,<br>Doddaluvara                     | Chemical restraint in wild animals   | IWVR, Doddaluvara  |
| 3   | 04.03.2022                     | IWVR,<br>Doddaluvara                     | Advisory for tackling wild animal<br>menace  | IWVR, Doddaluvara  |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b> |                                |  |  |  |
| 1   | 19.04.2021                     | VCB                                      | Scientific poultry farming   | ICAR-SCSP Project,<br>VCB  |
| 2   | 20.04.2021                     | VCB                                      | Scientific poultry farming   | ICAR-SCSP Project,<br>VCB  |
| 3   | 21.04.2021                     | VCB                                      | Scientific poultry farming   | ICAR-SCSP Project,<br>VCB  |
| 4   | 23.04.2021                     | VCB                                      | Scientific poultry farming   | ICAR-SCSP Project,<br>VCB  |
| 5   | 08.07.2021<br>to<br>28.07.2021 | Online                                   | Reorienting extension education and<br>advisory services for sustainable<br>development of farming community | KVAFSU, Bidar and<br>NADCL, Baramulla<br>(J&K)                           |
| 6   | 16.08.2021                     | LRIC,<br>Hallikhed                       | Green fodder production  | ICAR-SCSP Project,<br>LRIC-Hallikhed                                     |
| 7   | 17.08.2021                     | LRIC,<br>Hallikhed                       | Scientific poultry farming   | ICAR-SCSP Project,<br>LRIC-Hallikhed                                     |
| 8   | 31.08.2021                     | LRIC,<br>Hallikhed                       | Scientific poultry farming   | ICAR-SCSP Project,<br>LRIC-Hallikhed                                     |
| 9   | 17.09.2021                     | LRIC,<br>Hallikhed                       | Scientific dairy farming and green<br>fodder production  | LRIC-Hallikhed and<br>MYRADA, Kalburgi                                   |
| 10  | 23.09.2021                     | LRIC,<br>Hallikhed                       | Scientific dairy farming and green<br>fodder production  | LRIC-Hallikhed and<br>MYRADA, Kalburgi                                   |
| 11  | 0.10.2021<br>to<br>09.10.2021  | LRIC,<br>Hallikhed                       | Scientific poultry farming and green<br>fodder production  | ICAR-SCSP Project,<br>LRIC-Hallikhed                                     |
| 12  | 06.12.2021                     | LRIC,<br>Hallikhed                       | Scientific dairy farming and<br>vermicompost production  | LRIC-Hallikhed and<br>SHARADA -RSETI,<br>Bidar                           |
| 13  | 17.01.2022                     | LRIC,<br>Hallikhed                       | Scientific animal husbandry  | LRIC-Hallikhed and<br>DAH&VS, Bidar<br>and Reliance<br>Foundation, Bidar |
| 14  | 08.02.2022<br>to<br>09.02.2022 | LRIC,<br>Hallikhed                       | Scientific dairy farming   | RKVY Project,<br>LRIC-Hallikhed  |
| 15  | 15.03.2022<br>to<br>16.03.2022 | LRIC,<br>Hallikhed                       | Scientific goat farming and buck<br>management   | ICAR-SCSP Project,<br>LRIC-Hallikhed                                     |

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| 16  | 23.03.2022<br>to<br>24.03.2022 | LRIC,<br>Hallikhed       | Vermicompost production  | RKVY Project,<br>LRIC-Hallikhed                  |
| 17  | 28.03.2022                     | LRIC,<br>Hallikhed       | Green fodder production  | ICAR-SCSP Project,<br>LRIC-Hallikhed             |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA</b> |                                |                          |  |  |
| 1   | 03.08.2021                     | LRIC,<br>Nagamangala     | Profitable sheep and goat rearing  | LRIC,<br>Nagamangala                             |
| 2   | 23.10.2021                     | LRIC,<br>Nagamangala     | Modern animal husbandry practices adopted for livestock health and improvement of growth performance | LRIC,<br>Nagamangala                             |
| 3   | 28.10.2021                     | LRIC,<br>Nagamangala     | Improvement of sheep and goat production through scientific management                               | LRIC,<br>Nagamangala                             |
| 4   | 08.11.2021                     | LRIC,<br>Nagamangala     | Cultivation of different fodder crops and effective utilization of fodder for livestock production   | LRIC,<br>Nagamangala                             |
| 5   | 29.03.2022                     | LRIC,<br>Nagamangala     | Importance of Bandur sheep and its conservation  | LRIC,<br>Nagamangala                             |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, DORANAHALLI</b>         |                                |                          |  |  |
| 1   | 31.08.2021                     | BRIC,<br>Doranahalli     | Clean milk and green fodder production   | BRIC, Doranahalli                                |
| 2   | 07.09.2021                     | BRIC,<br>Dornahalli      | Clean milk and green fodder production   | BRIC, Doranahalli                                |
| 3   | 07.10.2021                     | BRIC,<br>Doranahalli     | Entrepreneurial opportunities in dairy farming   | BRIC, Doranahalli                                |
| 4   | 08.10.2021                     | BRIC,<br>Doranahalli     | Technical training to Veterinary Officers on controlled breeding in buffaloes                        | BRIC, Doranahalli                                |
| 5   | 11.11.2021                     | BRIC,<br>Dornahalli      | An interactive session with students on entrepreneurial opportunities in dairy sector                | BRIC, Doranahalli                                |
| 6   | 26.11.2021                     | BRIC,<br>Dornahalli      | Importance of green fodder in profitable dairy farming   | BRIC, Doranahalli                                |
| 7   | 22.12.2021                     | Shakapur                 | Calf management  | BRIC, Doranahalli                                |
| 8   | 24.02.2022                     | BRIC,<br>Dornahalli      | One day workshop to Veterinarians and VLIs   | BRIC, Doranahalli                                |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>   |                                |                          |  |  |
| 1   | 23.04.2021                     | FRIC, Hebbal<br>(Online) | National Webinar on biofloc technology   | FRIC, Hebbal and<br>DoF, GoK                     |
| 2   | 30.04.2021                     | FRIC, Hebbal<br>(Online) | National Webinar on fish seed production   | FRIC, Hebbal and<br>DoF, GoK                     |
| 3   | 07.05.2021                     | FRIC, Hebbal<br>(Online) | National Webinar on DPR preparation for fisheries and aquaculture projects                           | FRIC, Hebbal and<br>COFFA, Bengaluru<br>Chapters |
| 4   | 21.11.2021                     | FRIC, Hebbal<br>(Online) | World fisheries day- Advance technologies in aquaculture   | FRIC, Hebbal and<br>DoF, GoK                     |
| 5   | 07.12.2021                     | FRIC, Hebbal             | Cage culture in reservoir  | FRIC, Hebbal and<br>DoF, GoK                     |

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| 6   | 07.02.2021<br>to<br>09.02.2021 | I. Gollahalli,<br>Kanakapua<br>(Tq),<br>Ramanagara<br>(District) | Biofloc and RAS - Three days skill development training programme to SC beneficiaries                                     | FRIC, Hebbal and NFDB, Hyderabad |
| 7   | 11.02.2021<br>to<br>13.02.2021 | FRIC,<br>Hesaraghatta  | Freshwater ornamental fish production and marketing - Three days skill development training programme to SC beneficiaries | FRIC, Hebbal and NFDB, Hyderabad |
| 8   | 17.02.2022<br>to<br>19.02.2022 | FRIC, Hebbal   | Hatchery production of Indian major carps- Three days skill development training programme to SC beneficiaries            | FRIC, Hebbal and NFDB, Hyderabad |
| 9   | 23.02.2021<br>to<br>25.02.2021 | FRIC, Hebbal   | Nursery rearing of the Indian major carps - Three days skill development training programme to SC beneficiaries           | FRIC, Hebbal and NFDB, Hyderabad |
| 10  | 09.03.2021                     | FRIC, Hebbal   | Water quality management in freshwater aquaculture - One day awareness campaigns to SC beneficiaries                      | FRIC, Hebbal and NFDB, Hyderabad |
| 11  | 12.03.2021                     | FRIC, Hebbal   | Feed formulation and management in freshwater aquaculture - One day awareness campaigns to SC beneficiaries               | FRIC, Hebbal and NFDB, Hyderabad |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>        |                                |  |   |                                  |
| 1   | 12.03.2022                     | FRIC,<br>Hesaraghatta  | Feed management in fish culture   | FRIC,<br>Hesaraghatta            |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA</b>              |                                |  |   |                                  |
| 1   | 21.11.2021                     | FRIC,<br>Ankola  | Seaweed culture and ornamental fish culture   | FRIC, Ankola                     |
| 2   | 28.02.2022<br>to<br>2.03.2022  | FRIC,<br>Ankola  | Mariculture operator  | FRIC, Ankola                     |
| 3   | 9.03.2022<br>to<br>11.03.2022  | FRIC,<br>Ankola  | Mariculture operator  | FRIC, Ankola                     |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b> |                                |  |   |                                  |
| 1   | 10.07.2021                     | FRIC, Bhutnal,<br>Vijayapura                                     | Sustainable fish farming  | FRIC, Bhutnal,<br>Vijayapura     |
| 2   | 17.07.2021                     | FRIC, Bhutnal,<br>Vijayapura                                     | Scientific fish farming   | FRIC, Bhutnal,<br>Vijayapura     |
| 3   | 29.01.2022                     | Humanabad,<br>Bidar  | Feed formulation and management in fresh water  | FRIC, Bhutnal,<br>Vijayapura     |
| 4   | 30.01.2022                     | Basavakalyan,<br>Bidar   | Feed formulation and management in fresh water  | FRIC, Bhutnal,<br>Vijayapura     |
| 5   | 29.01.2022                     | Bidar  | Water quality managements in freshwater aquaculture   | FRIC, Bhutnal,<br>Vijayapura     |
| 6   | 05.02.2022                     | FRIC, Bhutnal,<br>Vijayapura                                     | Feed formulation and management in fresh water  | FRIC, Bhutnal,<br>Vijayapura     |

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| 7  | 05.02.2022               | Minchanal, Vijayapura      | Feed formulation and management in fresh water      | FRIC, Bhutnal, Vijayapura |
| 8  | 08.02.2022               | Mulwad, Vijayapura         | Water quality managements in freshwater aquaculture | FRIC, Bhutnal, Vijayapura |
| 9  | 11.02.2022               | Ronihal, Vijayapura        | Water quality managements in freshwater aquaculture | FRIC, Bhutnal, Vijayapura |
| 10 | 21.02.2022               | Indi, Vijayapura           | Water quality managements in freshwater aquaculture | FRIC, Bhutnal, Vijayapura |
| 11 | 02.02.2022 to 04.02.2022 | Vijayapura                 | Freshwater ornamental fish production and marketing | FRIC, Bhutnal, Vijayapura |
| 12 | 05.02.2022 to 07.02.2022 | Vijayapura                 | Hatchery production of India major carps            | FRIC, Bhutnal, Vijayapura |
| 13 | 10.02.2022 to 12.02.2022 | Vijayapura                 | Nursery rearing of major carps                      | FRIC, Bhutnal, Vijayapura |
| 14 | 14.02.2022 to 16.02.2022 | Vijayapura                 | Biofloc and RAS                                     | FRIC, Bhutnal, Vijayapura |
| 15 | 02.03.2022 to 04.03.2022 | Vijayapura                 | Sea bass nursery and culture                        | FRIC, Bhutnal, Vijayapura |
| 16 | 24.03.2022               | FRIC, Bhutnal, Vijayapura. | Scientific fish farming                             | FRIC, Bhutnal, Vijayapura |
| 17 | 25.03.2022               | FRIC, Bhutnal, Vijayapura. | Scientific fish farming                             | FRIC, Bhutnal, Vijayapura |
| 18 | 29.03.2022               | FRIC, Bhutnal, Vijayapura  | Scientific fish farming                             | FRIC, Bhutnal, Vijayapura |

**KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU**

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| 1 | 28.05.2022 | KVK-DK, Mangaluru          | Improved cultivation practices in paddy  | KVK-DK, Mangaluru                              |
| 2 | 10.06.2021 | KVK-DK, Mangaluru          | Agroforestry-alternative way to enhance farmers income   | KVK-DK, Mangaluru                              |
| 3 | 18.06.2021 | KVK-DK, Mangaluru (Online) | Improved production technologies in paddy  | KVK-DK, Mangaluru                              |
| 4 | 07.07.2021 | KVK-DK, Mangaluru (Online) | Importance of fodder crops in livestock production   | KVK-DK, Mangaluru                              |
| 5 | 05.08.2021 | KVK-DK, Mangaluru          | Construction of vermicompost unit, its maintenance and vermicompost production technologies (Extension functionaries training) | Zilla Panchayath Mangaluru & KVK-DK, Mangaluru |
| 6 | 18.10.2021 | KVK-DK, Mangaluru          | Value addition in banana for self employment to rural women  | SKDRDP   |
| 7 | 03.04.2021 | KVK-DK, Mangaluru          | Fertigation hydroponics, Israel technology   | ICAR, KVK, DK, Mangaluru                       |



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| 8  | 10.04.2021               | KVK-DK, Mangaluru          | Management of drought in agriculture  | KVK-DK, Mangaluru                           |
| 9  | 20.05.2021               | KVK-DK, Mangaluru (Online) | Scientific management of beekeeping   | KVK-DK, Mangaluru                           |
| 10 | 31.05.2021               | KVK-DK, Mangaluru (Online) | Importance of green manure crops and enrichment of organic manure   | KVK-DK, Mangaluru                           |
| 11 | 05.06.2021               | KVK-DK, Mangaluru          | Bio - fuel production and usage sponsored by Indian Oil Corporation   | KVK-DK, Mangaluru                           |
| 12 | 08.06.2021               | KVK-DK, Mangaluru (Online) | Improved practices in honey bee keeping and their management during rainy season  | ICAR, KVK, DK, Mangaluru                    |
| 13 | 18.06.2021               | KVK-DK, Mangaluru (Online) | Balanced use of fertilizer  | KVK-DK, Mangaluru                           |
| 14 | 16.08.2021               | KVK-DK, Mangaluru          | Parthenium awareness programme  | KVK-DK, Mangaluru                           |
| 15 | 17.08.2021               | KVK-DK, Mangaluru          | Parthenium awareness programme for DAESI students   | ICAR, KVK, DK, Mangaluru                    |
| 16 | 19.08.2021               | KVK-DK, Mangaluru          | Parthenium eradication programme  | KVK-DK, Mangaluru                           |
| 17 | 16.09.2021               | KVK-DK, Mangaluru          | Energy efficient pumps and water conservation   | KREDL, Bengaluru                            |
| 18 | 17.09.2021               | KVK-DK, Mangaluru          | Poshan mah and national campaign on tree plantation - Launch of International year of millets 2023 live streaming programme | KVK-DK, Mangaluru                           |
| 19 | 18.09.2021               | KVK-DK, Mangaluru          | CDP programme on Integrated crop management in arecanut   | ICAR, KVK, DK, Mangaluru                    |
| 20 | 26.11.2021               | KVK-DK, Mangaluru          | National campaign on 'Agriculture and Environment: The Citizen face'  | KVK-DK, Mangaluru                           |
| 21 | 25.03.2022               | KVK-DK, Mangaluru          | Petroleum conservation techniques and energy efficient pumps  | KVK-DK, Mangaluru                           |
| 22 | 08.03.2022               | KVK-DK, Mangaluru          | Kitchen and terrace gardening   | KVK-DK, Mangaluru                           |
| 23 | 28.05.2021               | KVK-DK, Mangaluru          | Mushroom cultivation  | KVK-DK, Mangaluru                           |
| 24 | 11.06.2021               | KVK-DK, Mangaluru          | Conservation of medicinal plants, uses and cultivation practices  | KVK-DK, Mangaluru                           |
| 25 | 28.06.2021               | KVK-DK, Mangaluru          | Integrated crop management in paddy   | KVK-DK, Mangaluru & KSDA, Belthangady       |
| 26 | 02.07.2021               | KVK-DK, Mangaluru          | Integrated pest and diseases management in paddy  | KVK-DK, Mangaluru                           |
| 27 | 10.01.2022 to 15.01.2022 | KVK-DK, Mangaluru          | Friends of Coconut Tree (FoCT) palm climbing training programme   | Coconut Development Board, Bengaluru Region |

|    |            |                   |  |  |
|----|------------|-------------------|--|--|
| 28 | 14.03.2022 | KVK-DK, Mangaluru | Integrated crop management in coconut and value addition                   | Coconut Development Board, Bengaluru Region      |
| 29 | 29.03.2022 | KVK-DK, Mangaluru | Inaugural function to DAESI V <sup>th</sup> batch                          | SAMETI UAS, GKVK Bengaluru and MANAGE, Hyderabad |
| 30 | 01.12.2022 | KVK-DK, Mangaluru | Role of livestock in integrated farming system and doubling farmers income | KVK-DK, Mangaluru                                |
| 31 | 20.04.2021 | KVK-DK, Mangaluru | Water quality management in aquaculture during unprecedented rains         | KVK-DK, Mangaluru                                |
| 32 | 01.06.2021 | KVK-DK, Mangaluru | Pond preparation and management  | KVK-DK, Mangaluru                                |
| 33 | 04.06.2021 | KVK-DK, Mangaluru | Swarnadhara poultry farming and disease management                         | KVK-DK, Mangaluru                                |
| 34 | 25.06.2021 | KVK-DK, Mangaluru | Animal health and clean milk production in dairy farming                   | KVK-DK, Mangaluru                                |
| 35 | 10.08.2021 | KVK-DK, Mangaluru | Cage culture in coastal districts  | KVK-DK, Mangaluru                                |
| 36 | 11.08.2021 | KVK-DK, Mangaluru | Integrated fish farming – Rice-cum-paddy farming                           | KVK-DK, Mangaluru                                |
| 37 | 13.10.2021 | KVK-DK, Mangaluru | Value addition of fish   | KVK-DK, Mangaluru                                |
| 38 | 11.11.2021 | KVK-DK, Mangaluru | Value addition of fish   | KVK-DK, Mangaluru                                |
| 39 | 18.12.2021 | KVK-DK, Mangaluru | Value addition in fisheries for the financial betterment of farmers        | KVK-DK, Mangaluru                                |
| 40 | 31.12.2021 | KVK-DK, Mangaluru | Management practices in quality fish seed production                       | KVK-DK, Mangaluru                                |
| 41 | 28.02.2022 | KVK-DK, Mangaluru | Value addition in fisheries  | KVK-DK, Mangaluru                                |
| 42 | 09.03.2022 | KVK-DK, Mangaluru | Value addition in fisheries  | KVK-DK, Mangaluru                                |

**B OFF CAMPUS TRAINING PROGRAMME**

|   |            |                          |  |                   |
|---|------------|--------------------------|--|-------------------|
| 1 | 30.06.2021 | Moodashedde, Mangaluru   | Flood resistant red rice variety Sahyadri Panchamukhi for lowlands of Dakshina Kannada | KVK-DK, Mangaluru |
| 2 | 03.07.2021 | Harekala, Mangaluru      | Flood resistant red rice variety Sahyadri Panchamukhi for lowlands of Dakshina Kannada | KVK-DK, Mangaluru |
| 3 | 19.07.2021 | Ambla Mogaru, Mangaluru  | ICM in paddy   | KVK-DK, Mangaluru |
| 4 | 07.10.2021 | Koila, Puttur            | Assessment of decomposing culture for composting                                       | KVK-DK, Mangaluru |
| 5 | 08.10.2021 | Aryapu, Puttur           | Short duration red rice variety for rabi season  | KVK-DK, Mangaluru |
| 6 | 08.4.2021  | Keddalike, Bantwal Taluk | Nutri-garden programme   | KVK-DK, Mangaluru |

|    |                                |                              |  |                      |
|----|--------------------------------|------------------------------|--|----------------------|
| 7  | 23.04.2021                     | Ajjavara,Sullia              | Organic farming  | KVK-DK,<br>Mangaluru |
| 8  | 09.07.2021                     | Ajjavara, Sullia             | Production technology of vermicompost                                      | KVK-DK,<br>Mangaluru |
| 9  | 19.07.2021                     | Ambala Mogaru,<br>Mangaluru  | Management of potassium in coastal paddy                                   | KVK-DK,<br>Mangaluru |
| 10 | 04.08.2021                     | Bettampady,<br>Puttur        | Effect of MgSO <sub>4</sub> on growth and yield of coastal paddy           | KVK-DK,<br>Mangaluru |
| 11 | 05.08.2021                     | Keddalike,<br>Sullia         | Nutrigarden programme  | KVK-DK,<br>Mangaluru |
| 12 | 09.09.2021                     | Ajjavara, Sullia             | Capacity development programme on bio-control agents                       | KVK-DK,<br>Mangaluru |
| 13 | 06.10.2021                     | Ajjavara, Sullia             | Special swacchta campaign  | KVK-DK,<br>Mangaluru |
| 14 | 12.10.2021                     | Suterpete,<br>Mangaluru      | Special swacchta campaign - house waste management through pipe composting | KVK-DK,<br>Mangaluru |
| 15 | 26.10.2021                     | Kadabettu,<br>Bantwal        | Effect of mangala setrite on arecanut yield and management of soil acidity | KVK-DK,<br>Mangaluru |
| 16 | 26.10.2021                     | Kadabettu,<br>Bantwal        | Management of nut cracking and premature nut fall in arecanut              | KVK-DK,<br>Mangaluru |
| 17 | 26.03.2022                     | Yenekallu,<br>Sullia         | Petroleum conservation techniques and energy efficient pumps               | KVK-DK,<br>Mangaluru |
| 18 | 28.03.2022                     | ADA Office,<br>Sullia        | Petroleum conservation techniques and energy efficient pumps               | KVK-DK,<br>Mangaluru |
| 19 | 29.03.2022                     | Mankude,<br>Bantwal          | Petroleum conservation techniques and energy efficient pumps               | KVK-DK,<br>Mangaluru |
| 20 | 31.03.2022                     | Suratkal of<br>Mangaluru     | Petroleum conservation techniques and energy efficient pumps               | KVK-DK,<br>Mangaluru |
| 21 | 22.07.2021                     | Harekal,<br>Mangaluru        | Integrated crop management in pepper                                       | KVK-DK,<br>Mangaluru |
| 22 | 22.07.2021                     | Konaje (Belma),<br>Mangaluru | Eco-friendly pest management in paddy                                      | KVK-DK,<br>Mangaluru |
| 23 | 10.08.2021                     | Tekkaru,<br>Belthangadi      | Integrated management of African snails                                    | KVK-DK,<br>Mangaluru |
| 24 | 11.08.2021                     | Kalleri,<br>Belthangadi      | Integrated management of African snails                                    | KVK-DK,<br>Mangaluru |
| 25 | 31.08.2021                     | Narimogaru,<br>Puttur        | Integrated management of African snails                                    | KVK-DK,<br>Mangaluru |
| 26 | 23.10.2021                     | Daregudde,<br>Modabidre      | Uses of bio-control agent in plant diseases management                     | KVK-DK,<br>Mangaluru |
| 27 | 24.11.2021                     | Odilnal,<br>Belthangadi      | Assessment of spindle bug management in arecanut                           | KVK-DK,<br>Mangaluru |
| 28 | 29.11.2021                     | Tenkamijaru,<br>Mangaluru    | Management of red palm weevil in arecanut                                  | KVK-DK,<br>Mangaluru |
| 29 | 09.12.2021                     | Kellaputhige,<br>Moodabidre  | Integrated management of stem and root borer in cashew                     | KVK-DK,<br>Mangaluru |
| 30 | 17.01.2022<br>to<br>18.01.2022 | Shishila,<br>Belthangady     | Pest and diseases management in Apiculture                                 | KVK-DK,<br>Mangaluru |

|  |                                |                             |   |   |
|--|--------------------------------|-----------------------------|---|---|
| 31   | 15.02.2022                     | Konaje,<br>Mangaluru        | Assessment of leaf folder<br>management in paddy  | KVK-DK,<br>Mangaluru  |
| 32   | 21.03.2022                     | Bettampady,<br>Puttur       | Scientific sheep and goat farming   | KVK-DK,<br>Mangaluru  |
| 33   | 26.03.2022                     | Munkade,<br>Bantwala        | Scientific dairy farming  | KVK-DK,<br>Mangaluru  |
| 34   | 27.03.2022                     | Sullia Taluk                | Scientific piggery farming  | KVK-DK,<br>Mangaluru  |
| 35   | 29.03.2022                     | Suratkal,<br>Mangalore      | Scientific management of poultry<br>birds   | KVK-DK,<br>Mangaluru  |
| 36   | 29.06.2022                     | Padupanamburu<br>Moodabidre | Fish culture in farm ponds  | Padupanamburu<br>Gramapanchayat                                       |
| 37   | 10.07.2021                     | Panapila,<br>Moodabidre     | Composite fish culture  | KVK-DK,<br>Mangaluru  |
| 38   | 11.07.2021                     | Permude,<br>Mangaluru       | Fish culture in farm ponds  | KVK-DK,<br>Mangaluru  |
| 39   | 26.08.2021                     | Nidpalli, Puttur            | Value addition of fish  | KVK-DK,<br>Mangaluru  |
| 40   | 28.09.2021                     | Bettampadi,<br>Puttur       | Value addition of fish  | KVK-DK,<br>Mangaluru  |
| 41   | 21.11.2021                     | Kottaribettu,<br>Bantwal    | Composite fish culture  | KVK-DK,<br>Mangaluru  |
| 42   | 05.12.2021                     | Beluvai,<br>Moodabidre      | Composite fish culture  | KVK-DK,<br>Mangaluru  |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMAKURU</b>    |                                |                             |   |   |
| 1  | 10.02.2022<br>to<br>12.02.2022 | AHP,<br>Konehalli           | Modern sheep production and<br>methods and management   | AHP-Konehalli   |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b>         |                                |                             |   |   |
| 1  | 25.02.2022                     | AHP<br>Kunnur               | Clean milk production in cattle   | AHP, Kunnur-<br>Haveri  |
| 2  | 02.03.2022<br>to<br>03.03.2022 | AHP<br>Kunnur               | Scientific raring of sheep and goat   | AHP, Kunnur-<br>Haveri  |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, BARGI-CHAMARAJANAGARA</b> |                                |                             |   |   |
| 1  | 09.03.2022<br>To<br>11.03.2022 | AHP,<br>Bargi               | Scientific farmers training   | AHP, Bargi  |
| 2  | 11.04.2022<br>to<br>12.04.2022 | AHP,<br>Bargi               | Administrative training for SC ST<br>teaching and non-teaching faculties<br>of Veterinary College, Hassan | AHP, Bargi  |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, DORNAHALLI-YADGIR</b>     |                                |                             |   |   |
| 1  | 16.08.2021                     | AHP Dornahalli              | Integrated farming  | DAH&VS &<br>AHP-Dornahalli  |
| 2  | 31.01.2022                     | AHP Dornahalli              | District level one day technical<br>seminar for veterinarians   | District<br>Administration<br>Yadgir,<br>DAH&VS, & AHP-<br>Dornahalli |

**ABSTRACT OF CONFERENCES/TRAININGS/WORKSHOPS/SEMINARS/SYMPOSIA  
ORGANIZED DURING 2021-22**

| #  | Institutes                           | International Level |           |          |          |           | National Level |           |           |          |            | Total      |
|----|--------------------------------------|---------------------|-----------|----------|----------|-----------|----------------|-----------|-----------|----------|------------|------------|
|    |                                      | Conference          | Workshops | Seminars | Symposia | Trainings | Conference     | Workshops | Seminars  | Symposia | Trainings  |            |
| 1  | Veterinary College, Bengaluru        | -                   | -         | -        | -        | 1         | -              | -         | 1         | -        | 6          | 8          |
| 2  | Veterinary College, Bidar            | -                   | -         | -        | -        | -         | 1              | 1         | -         | -        | 12         | 14         |
| 3  | Veterinary College, Shivamogga       | -                   | -         | -        | -        | -         | -              | -         | 1         | -        | 16         | 17         |
| 4  | Veterinary College, Hassan           | 1                   | -         | -        | -        | -         | -              | 3         | 3         | -        | 33         | 40         |
| 5  | Veterinary College, Gadag            | -                   | -         | -        | -        | -         | -              | -         | 1         | -        | 6          | 7          |
| 6  | Dairy Science College, Bengaluru     | -                   | -         | -        | -        | -         | 1              | -         | 2         | -        | 6          | 9          |
| 7  | Dairy Science College,<br>Kalaburagi | -                   | -         | -        | -        | -         | -              | -         | -         | -        | -          | -          |
| 8  | College of Fisheries, Mangaluru      | -                   | -         | -        | -        | -         | -              | 3         | 1         | -        | 3          | 7          |
| 9  | IAH and VB, Bengaluru                | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 16         | 16         |
| 10 | IWVR, Doddaluvara-Kodagu             | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 3          | 3          |
| 11 | LRIC, Hallikhed-Bidar                | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 17         | 17         |
| 12 | LRIC, Nagamangala-Mandya             | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 5          | 5          |
| 13 | LRIC, Konehalli-Tumakuru             | -                   | -         | -        | -        | -         | -              | -         | -         | -        | -          | -          |
| 14 | BRIC, Dornahalli-Yadgir              | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 8          | 8          |
| 15 | CRIC, Timmapur-Bagalkot              | -                   | -         | -        | -        | -         | -              | -         | -         | -        | -          | -          |
| 16 | FRIC, Hebbal-Bengaluru               | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 11         | 11         |
| 17 | FRIC, Hesaraghatta-Bengaluru         | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 1          | 1          |
| 18 | FRIC, Ankola-Uttar Kannada           | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 3          | 3          |
| 19 | FRIC, Bhutnal-Vijayapura             | -                   | -         | -        | -        | -         | -              | 2         | -         | -        | 18         | 20         |
| 20 | KVK-DK, Mangaluru                    | -                   | -         | -        | -        | -         | -              | -         | 4         | -        | 84         | 88         |
| 21 | AHP, Konehalli-Tumakuru              | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 1          | 1          |
| 22 | AHP, Kunnur-Haveri                   | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 2          | 2          |
| 23 | AHP, Koravangala-Hassan              | -                   | -         | -        | -        | -         | -              | -         | -         | -        | -          | -          |
| 24 | AHP, Bargi-Chamarajnagar             | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 2          | 2          |
| 25 | AHP, Dornahalli-Yadgir               | -                   | -         | -        | -        | -         | -              | -         | -         | -        | 2          | 2          |
|    | <b>TOTAL</b>                         | <b>1</b>            | <b>-</b>  | <b>-</b> | <b>-</b> | <b>1</b>  | <b>2</b>       | <b>9</b>  | <b>13</b> | <b>-</b> | <b>255</b> | <b>281</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                    | 14          | 60                  | 3         | 11        | 2         | 4                      | <b>94</b>  |
| 2            | Veterinary College, Bidar                        | 8           | 83                  | 6         | 5         | 10        | 2                      | <b>114</b> |
| 3            | Veterinary College, Shivamogga                   | 1           | 48                  | 4         | 16        | 3         | -                      | <b>72</b>  |
| 4            | Veterinary College, Hassan                       | -           | 75                  | 4         | 6         | 1         | 4                      | <b>90</b>  |
| 5            | Veterinary College, Gadag                        | 4           | 44                  | -         | 4         | -         | -                      | <b>52</b>  |
| 6            | Dairy Science College, Bengaluru                 | 14          | 43                  | -         | 14        | -         | -                      | <b>71</b>  |
| 7            | Dairy Science College, Kalaburagi                | -           | 2                   | -         | -         | -         | -                      | <b>2</b>   |
| 8            | College of Fisheries, Mangaluru                  | -           | 5                   | 1         | 1         | -         | -                      | <b>7</b>   |
| 9            | IAH&VB, Bengaluru                                | 1           | 38                  | 1         | 1         | -         | -                      | <b>41</b>  |
| 10           | IWVR, Doddaluvara-Kodagu                         | -           | 1                   | -         | -         | -         | -                      | <b>1</b>   |
| 11           | LRIC, Hallikhed-Bidar                            | -           | 30                  | -         | -         | -         | 3                      | <b>33</b>  |
| 12           | LRIC, Nagamangala-Mandya                         | -           | 4                   | -         | -         | -         | -                      | <b>4</b>   |
| 13           | LRIC, Konehalli-Tumakuru                         | -           | 1                   | -         | -         | -         | -                      | <b>1</b>   |
| 14           | BRIC, Dornahalli-Yadgir                          | -           | 15                  | -         | 2         | -         | -                      | <b>17</b>  |
| 15           | CRIC, Timmapur-Bagalkot                          | -           | -                   | -         | -         | -         | -                      | <b>-</b>   |
| 16           | FRIC, Hebbal-Bengaluru                           | -           | 11                  | -         | -         | -         | -                      | <b>11</b>  |
| 17           | FRIC, Hesaraghatta-Bengaluru                     | -           | 12                  | -         | -         | -         | -                      | <b>12</b>  |
| 18           | FRIC, Bhutnal-Vijayapura                         | -           | 20                  | 2         | -         | -         | -                      | <b>22</b>  |
| 19           | FRIC, Ankola-Uttar Kannada                       | -           | 18                  | -         | -         | -         | -                      | <b>18</b>  |
| 20           | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | -           | 96                  | -         | -         | -         | -                      | <b>96</b>  |
| 21           | AHP, Konehalli-Tumakuru                          | -           | 11                  | -         | -         | -         | -                      | <b>11</b>  |
| 22           | AHP, Kunnur-Haveri                               | -           | 2                   | -         | -         | -         | -                      | <b>2</b>   |
| 23           | AHP, Koravangala-Hassan                          | -           | 4                   | -         | -         | -         | -                      | <b>4</b>   |
| 24           | AHP, Bargi-Chamarajnagar                         | -           | 2                   | -         | -         | -         | -                      | <b>2</b>   |
| 25           | AHP, Dornahalli-Yadgir                           | -           | -                   | -         | -         | -         | -                      | <b>-</b>   |
| <b>Total</b> |  | <b>42</b>   | <b>625</b>          | <b>21</b> | <b>60</b> | <b>16</b> | <b>13</b>              | <b>777</b> |

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

| #            | Institution                                      | Conferences | Training Programmes | Workshops | Seminars  | Symposia  | Winter/<br>Summer<br>Schools | Total      |
|--------------|--|-------------|---------------------|-----------|-----------|-----------|------------------------------|------------|
| 1            | Veterinary College, Bengaluru                    | 10          | 52                  | 7         | 6         | 1         | 3                            | 79         |
| 2            | Veterinary College, Bidar                        | 15          | 21                  | 5         | 11        | 3         | 4                            | 59         |
| 3            | Veterinary College, Shivamogga                   | 7           | 18                  | 8         | 46        | 1         | 2                            | 82         |
| 4            | Veterinary College, Hassan                       | 6           | 47                  | 15        | 3         | 6         | 5                            | 82         |
| 5            | Veterinary College, Gadag                        | 6           | 15                  | -         | 2         | -         | 5                            | 28         |
| 6            | Dairy Science College, Bengaluru                 | 14          | 1                   | 1         | 6         | 1         | -                            | 23         |
| 7            | Dairy Science College, Kalaburagi                | -           | -                   | -         | -         | -         | -                            | -          |
| 8            | College of Fisheries, Mangaluru                  | 2           | 8                   | 1         | 9         | -         | -                            | 20         |
| 9            | IAH and VB, Bengaluru                            | 1           | 19                  | 6         | 1         | -         | -                            | 27         |
| 10           | IWVR, Doddaluvara-Kodagu                         | -           | -                   | -         | -         | -         | -                            | -          |
| 11           | LRIC, Hallikhed-Bidar                            | -           | 2                   | -         | -         | -         | -                            | 2          |
| 12           | LRIC, Nagamangala-Mandya                         | -           | -                   | -         | -         | -         | -                            | -          |
| 13           | LRIC, Konehalli-Tumakuru                         | 3           | -                   | -         | 2         | -         | -                            | 5          |
| 14           | BRIC, Dornahalli-Yadgir                          | -           | 1                   | -         | -         | -         | -                            | 1          |
| 15           | CRIC, Timmapur-Bagalkot                          | -           | -                   | -         | -         | -         | -                            | -          |
| 16           | FRIC, Hebbal-Bengaluru                           | 1           | -                   | -         | -         | -         | -                            | 1          |
| 17           | FRIC, Hesaraghatta-Bengaluru                     | -           | 6                   | -         | -         | -         | -                            | 6          |
| 18           | FRIC, Bhutnal-Vijayapura                         | -           | -                   | -         | -         | -         | -                            | -          |
| 19           | FRIC, Ankola-Uttar Kannada                       | -           | -                   | -         | 12        | -         | -                            | 12         |
| 20           | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | -           | 38                  | -         | -         | -         | -                            | 38         |
| 21           | AHP, Konehalli-Tumakuru                          | -           | 2                   | -         | -         | -         | -                            | 2          |
| 22           | AHP, Kunnur-Haveri                               | 2           | 3                   | 1         | -         | -         | -                            | 6          |
| 23           | AHP, Koravangala-Hassan                          | -           | -                   | -         | -         | -         | -                            | -          |
| 24           | AHP, Bargi-Chamarajnagar                         | -           | 3                   | -         | -         | -         | -                            | 3          |
| 25           | AHP, Dornahalli-Yadgir                           | -           | -                   | -         | -         | -         | -                            | -          |
| <b>Total</b> |  | <b>67</b>   | <b>236</b>          | <b>44</b> | <b>98</b> | <b>12</b> | <b>19</b>                    | <b>476</b> |

#### 4. Radio Talk/TV Programmes

##### a) Radio Talks

| #   | Date                     | Scientist           | Topic  | AIR Station                |
|---|--------------------------|---------------------|--|----------------------------|
| <b>VETERINARY COLLEGE, BENGALURU</b>                                    |                          |                     |  |                            |
| 1   | 24.09.2021               | Leena, G.           | Rabies and its prevention  | AIR, Bengaluru             |
| 2   | 28.09.2021               | Leena, G.           | Rabies symptoms, causes, treatment and prevention  | Live Program on FM Rainbow |
| 3   | 30.08.2021               | Suma, N.            | Feeding of layers and broiler birds  | AIR, Bengaluru             |
| 4   | 04.10.2021               | Chetan Kumar, G.K.  | World animal welfare day   | Prasar Bharati             |
| <b>VETERINARY COLLEGE, BIDAR</b>  |                          |                     |  |                            |
| 1   | 04.02.2022               | Shrikant Dodamani   | Indigenous breeds of cattle  | AIR-Kalaburagi             |
| 2   | 24.12.2021               | Adeppa, J.          | Ascariosis in buffalo calf and its control   | AIR-Kalaburagi             |
| 3   | 18.10.2021               | Dilipkumar, D.      | Role of veterinary surgery in animal health  | AIR-Kalaburagi             |
| 4   | 19.10.2021               | Dilipkumar, D.      | Role of veterinary surgery in animal health  | AIR-Kalaburagi             |
| <b>VETERINARY COLLEGE, HASSAN</b>                                       |                          |                     |  |                            |
| 1   | 19.02.2022               | Shilpa, V.T.        | Mycotoxin effects and its control in poultry rearing   | AIR-Hassan                 |
| 2   | 01.04.2021 to 31.05.2021 | Girish, B.C.        | Pashuvaidyamrutha weekly series 9 programs   | AIR-Hassan                 |
| 3   | 28.03.2022               | Jaishankar, N.      | Fodder production and feeding of livestock   | AIR-Hassan                 |
| 4   | 28.03.2022               | Roopa, T.K.         | Fodder production  | AIR-Hassan                 |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |                          |                     |  |                            |
| 1   | 12.06.2021               | Shesha Rao          | Backyard poultry farming   | ARI-Kalaburagi             |
| 2   | 15.09.2021               | Shesha Rao          | Brucellosis in animals and vaccination programme   | ARI-Kalaburagi             |
| 3   | 01.09.2021               | Sumathi, B.R.       | Brucellosis in cattle and its management   | AIR-Bengaluru              |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA</b>           |                          |                     |  |                            |
| 1   | 25.08.2021               | Ravindragouda Patil | Composite fish culture and its usefulness to farmers   | AIR-Bengaluru              |
| 2   | 11.02.2022               | Ravindragouda Patil | Sustainable integrated fish culture  | AIR-Bengaluru              |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>   |                          |                     |  |                            |
| 1   | 14.02.2022               | Vijayakumar, S.     | Biofloc/RAS training programme   | AIR-Vijayapura             |
| 2   | 23.02.2022               | Vijayakumar, S.     | Minu sakaneke  | AIR-Vijayapura             |
| <b>KRISHI VIGYAN KENDRA, DAKSHINA KANNADA, MANGALURU (KVK-DK)</b>       |                          |                     |  |                            |
| 1   | 15.07.2021               | T.J. Ramesha        | Flood resistant red rice variety - Syhyadri Pancharukhi and its management in Dakshina Kannada | All India Radio-100.3PM    |



**b) TV Programmes**

| #   | Date       | Scientist            | Topic  | Station                          |
|---|------------|----------------------|--|----------------------------------|
| <b>VETERINARY COLLEGE, BENGALURU</b>                                    |            |                      |  |                                  |
| 1   | 13.03.2022 | Madhu, D.            | Hip dysplasia and its management in dogs                           | Drools India TV/Insta/FB         |
| 2   | 27.03.2022 | Bharath Kumar, M.L.  | Care and management of kittens                                     | Drools India TV/Insta/FB         |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |            |                      |  |                                  |
| 1   | 30.07.2021 | B.M. Chandranaik     | Disease management of sheep during rainy season                    | Dooradarshana Programme          |
| 2   | 15.12.2021 | Vasanth Kumar Shetty | Information about animal husbandry activity in DK                  | Namma Kudla TV Channel           |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>     |            |                      |  |                                  |
| 1   | 13.07.2021 | K.B. Rajanna         | Role of water quality parameter on biofloc fish farming technology | Digvijaya Channel<br>Negila Yogi |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>   |            |                      |  |                                  |
| 1   | 14.02.2021 | Vijayakumar, S.      | Fishery training and demonstration programme                       | DD- 1<br>Vijayapura              |
| <b>KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)</b>        |            |                      |  |                                  |
| 1   | 30.06.2021 | Chethan, N.          | Krishi Kushi<br>Inland fish culture in farm ponds                  | Namma Kudla TV                   |

## ABSTRACT OF RADIO TALKS AND TV PROGRAMMES DURING 2021-22

| #            | College/Institute                                | Radio Talks | TV Programmes | Total     |
|--------------|--|-------------|---------------|-----------|
| 1            | Veterinary College, Bengaluru                    | 4           | 2             | 6         |
| 2            | Veterinary College, Bidar                        | 4           | -             | 4         |
| 3            | Veterinary College, Shivamogga                   | -           | -             | -         |
| 4            | Veterinary College, Hassan                       | 4           | -             | 4         |
| 5            | Veterinary College, Gadag                        | -           | -             | -         |
| 6            | Dairy Science College, Bengaluru                 | -           | -             | -         |
| 7            | Dairy Science College, Kalaburagi                | -           | -             | -         |
| 8            | College of Fisheries, Mangaluru                  | -           | -             | -         |
| 9            | IAH&VB, Bengaluru                                | 3           | 2             | 5         |
| 10           | IWVR, Doddaluvara-Kodagu                         | -           | -             | -         |
| 11           | LRIC, Hallikhed-Bidar                            | -           | -             | -         |
| 12           | LRIC, Nagamangala-Mandya                         | -           | -             | -         |
| 13           | LRIC, Konehalli-Tumakuru                         | -           | -             | -         |
| 14           | BRIC, Dornahalli-Yadgir                          | -           | -             | -         |
| 15           | CRIC, Timmapur-Bagalkot                          | -           | -             | -         |
| 16           | FRIC, Hebbal-Bengaluru                           | -           | 1             | 1         |
| 17           | FRIC, Hesaraghatta-Bengaluru                     | 2           | -             | 2         |
| 18           | FRIC, Bhutnal-Vijayapura                         | 2           | 1             | 3         |
| 19           | FRIC, Ankola-Uttar Kannada                       | -           | -             | -         |
| 20           | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | 1           | 1             | 2         |
| 21           | AHP, Konehalli-Tumakuru                          | -           | -             | -         |
| 22           | AHP, Kunnur-Haveri                               | -           | -             | -         |
| 23           | AHP, Koravangala-Hassan                          | -           | -             | -         |
| 24           | AHP, Bargi-Chamarajnar                           | -           | -             | -         |
| 25           | AHP, Dornahalli-Yadgir                           | -           | -             | -         |
| <b>Total</b> |  | <b>20</b>   | <b>7</b>      | <b>27</b> |

## 5. Animal Health Camps

| #            | Name of the College/Institute                    | No. of Animal Health Camps | No. of cases treated/advised |
|--------------|--|----------------------------|------------------------------|
| 1            | Veterinary College, Bengaluru                    | 10                         | 438                          |
| 2            | Veterinary College, Bidar                        | 6                          | 451                          |
| 3            | Veterinary College, Shivamogga                   | 4                          | 110                          |
| 4            | Veterinary College, Hassan                       | 32                         | 1764                         |
| 5            | Veterinary College, Gadag                        | 5                          | 350                          |
| 6            | Dairy Science College, Bengaluru                 | -                          | -                            |
| 7            | Dairy Science College, Kalaburagi                | -                          | -                            |
| 8            | College of Fisheries, Mangaluru                  | -                          | -                            |
| 9            | IAH&VB, Bengaluru                                | 3                          | 120                          |
| 10           | IWVR, Doddaluvara-Kodagu                         | -                          | -                            |
| 11           | LRIC, Hallikhed-Bidar                            | 7                          | 2100                         |
| 12           | LRIC, Nagamangala-Mandya                         | 9                          | 10009                        |
| 13           | LRIC, Konehalli-Tumakuru                         | -                          | -                            |
| 14           | BRIC, Dornalli-Yadgir                            | -                          | -                            |
| 15           | CRIC, Timmapur-Bagalkot                          | 2                          | 121                          |
| 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                          | -                          | -                            |
| 22           | AHP, Kunnur-Haveri                               | -                          | -                            |
| 23           | AHP, Koravangala-Hassan                          | -                          | -                            |
| 24           | AHP, Bargi-Chamarajnagar                         | 6                          | -                            |
| 25           | AHP, Dornalli-Yadgir                             | -                          | -                            |
| <b>Total</b> |  | <b>84</b>                  | <b>15463</b>                 |

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

| #            | Name of the College/Institute                    | No. of Demonstrations / Exhibitions / Field Days | Pashu / Matsya Mela |
|--------------|--|--|---------------------|
| 1            | Veterinary College, Bengaluru                    | 14   | 1                   |
| 2            | Veterinary College, Bidar                        | 4  | -                   |
| 3            | Veterinary College, Shivamogga                   | 21   | 1                   |
| 4            | Veterinary College, Hassan                       | 12   | 1                   |
| 5            | Veterinary College, Gadag                        | 3  | 1                   |
| 6            | Dairy Science College, Bengaluru                 | -  | -                   |
| 7            | Dairy Science College, Kalaburagi                | -  | -                   |
| 8            | College of Fisheries, Mangaluru                  | -  | -                   |
| 9            | IAHandVB, Bengaluru                              | 1  | 1                   |
| 10           | IWVR, Doddaluvara-Kodagu                         | -  | -                   |
| 11           | LRIC, Hallikhed-Bidar                            | 2  | 1                   |
| 12           | LRIC, Nagamangala-Mandya                         | 5  | -                   |
| 13           | LRIC, Konehalli-Tumakuru                         | -  | -                   |
| 14           | BRIC, Dornalli-Yadgir                            | -  | -                   |
| 15           | CRIC, Timmapur-Bagalkot                          | 3  | 1                   |
| 16           | FRIC, Hebbal-Bengaluru                           | 3  | 1                   |
| 17           | FRIC, Hesaraghatta-Bengaluru                     | 1  | 1                   |
| 18           | FRIC, Bhutnal-Vijayapura                         | 2  | -                   |
| 19           | FRIC, Ankola-Uttar Kannada                       | 2  | -                   |
| 20           | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | 51   | -                   |
| 21           | AHP, Konehalli-Tumakuru                          | 2  | -                   |
| 22           | AHP, Kunnur-Haveri                               | 1  | -                   |
| 23           | AHP, Koravangala-Hassan                          | 1  | -                   |
| 24           | AHP, Bargi-Chamarajnagar                         | -  | -                   |
| 25           | AHP, Dornalli-Yadgir                             | -  | -                   |
| <b>Total</b> |  | <b>128</b>                                       | <b>9</b>            |

## 7. Animal Health Care Services to Farmers

| <i>College / Institute</i>     | <i>Service Provided</i>  | <i>Total Nos.</i> |
|--------------------------------|--|-------------------|
| Veterinary College, Bengaluru  | Regularly treating the animals and health care services provided to the farmers<br>Total number of cases (Small and Large) treated   | 1200              |
|                                | Total cases attended<br>(Major operations performed – 411<br>Minor operations performed-208<br>OPD cases(Small and Large)-8328<br>Species wise treatment<br>Equines treated-15<br>Cow/Buffaloes treated -524<br>Goats treated-399<br>Sheep treated-254<br>Dogs treated-7032<br>Cats treated-1206<br>Others treated-185)        | 9615              |
|                                | Livestock<br>Genital Surgeries (C/S+Castration) - 28<br>Dystocia-64<br>AI-235<br>PD-59<br>Ultrasonography-294<br>Other services-193<br>Pet Animals<br>Genital Surgeries (OHE+castration+C/S+ vaginal surgeries)-873<br>Dystocia1-54<br>Ultrasonography-1756<br>Vaginal Cytology-1470<br>PD-372<br>AI-12<br>Other Services-3331 | 8841              |
|                                | <b>Total</b>   | <b>19656</b>      |
| Veterinary College, Bidar      | VMD  | 6346              |
|                                | VGO  | 1043              |
|                                | VSR  | 2506              |
|                                | AI   | 611               |
|                                | <b>Total</b>   | <b>10506</b>      |
| Veterinary College, Shivamogga | Health advisory services to Animal owners  | 62                |
|                                | 01 - (At Aralsurali on 22-10-21)   | 25                |
|                                | Animals treated at Medicine unit, Veterinary Clinical Complex (VCC) of Veterinary College, Shivamogga from 01 <sup>st</sup> April 20 to 31 <sup>st</sup> March 2021  | 5145              |

|                            |   |               |
|----------------------------|---|---------------|
|                            | Surgical treatment/interventions/ operations in OPD/OT for the year 2021-22 (01.04.2021 to 31.03.2022)  | 1723          |
|                            | Diagnosis, treatment, ultrasonography technique of pregnancy diagnosis in small and large animals   | 256           |
|                            | <b>Total</b>  | <b>7211</b>   |
| Veterinary College, Hassan | Clinical services   | 9789          |
|                            | Major surgeries   | 293           |
|                            | Minor surgeries   | 204           |
|                            | OPD Cases   | 2449          |
|                            | Clinical services   | 5313          |
|                            | Services  | 824           |
|                            | <b>Total</b>  | <b>18872</b>  |
| Veterinary College, Gadag  | Diagnosis, treatment of animals, Faecal Blood sample and skin scraping examination, Disease diagnosis, Preventive measures, Large animal and small animal health care management, prophylaxis, vaccination, breeding and reproduction, surgical intervention, sample collection and disease investigation, Large animal and small animal surgical interventions | 6651          |
|                            | <b>Total</b>  | <b>6651</b>   |
| IAH&VB, Bengaluru          | Disease Investigation, Post mortem, Vaccine supply, Haematology & Serum analysis, Faecal examination etc.   | 103587        |
|                            | <b>Total</b>  | <b>103587</b> |
| LRIC, Nagamangala-Mandya   | Animal Health Care  | 254           |
|                            | <b>Total</b>  | <b>254</b>    |
| LRIC, Konehalli-Tumkuru    | Fodder cultivation Practices  | 20            |
|                            | Information to farmer visitors  | 11            |
|                            | <b>Total</b>  | <b>31</b>     |
| CRIC, Timmapur-Bagalkot    | Consultancy Service to local Mudhol hound dogs  | 30            |
|                            | <b>Total</b>  | <b>30</b>     |
| AHP, Konehalli-Tumakuru    | Pig castrations   | 20            |
|                            | Treated Ailing Animals of the Surrounding villages of the Institution   | 50            |
|                            | AHD students have assisted in the treatment of ailing animals in different veterinary hospitals under WEx course  | 850           |
|                            | No. of Inseminations done by AHD Students in different Hospitals  | 115           |
|                            |   |               |

|                            |   |               |
|----------------------------|---|---------------|
|                            | No. of castrations done by AHD Students in different Hospitals                          | 125           |
|                            | No. of Animals dewormed by AHD Students in different villages of Tiptur and Arsikere Tq | 600           |
|                            | FMD Vaccination done by AHD Students in different Villages of Tiptur Taluk              | 800           |
|                            | <b>Total</b>  | <b>2560</b>   |
| AHP, Kunnur-Haveri         | Provided modern Animal lift for downer cows   | 4             |
|                            | <b>Total</b>  | <b>4</b>      |
| AHP, Bargi-Chamarajanagara | Treatment for Mastitis, Infertility in cows, cystic ovary diseases                      | 5             |
|                            | <b>Total</b>  | <b>5</b>      |
|                            | <b>Grand Total</b>  | <b>169367</b> |

## 8. Diagnostic Services Provided

| #                        | Institution                      | Diagnostic Services provided   | Total Numbers                |                              |     |
|--------------------------|----------------------------------|--|------------------------------|------------------------------|-----|
| 1                        | Veterinary College,<br>Bengaluru | Haematology and blood biochemistry   | 7500                         |                              |     |
|                          |                                  | Radiography and C-Arm imaging X-ray  | 1631                         |                              |     |
|                          |                                  | Blood samples tested-8325 (large and small animals)<br>Ultra Sound scanning subjected-524<br>Electrocardiography-789<br>Antibiotic Sensitivity Testing-26<br>Fecal Sample testing-1420 ( Small & Large animals)<br>Urine routine examination-2562 ( Small & Large animals) | 13646                        |                              |     |
|                          |                                  | Blood Samples - 165<br>Faecal Samples - 148<br>Gross specimens - 1   | 314                          |                              |     |
|                          |                                  | Canine necropsy-47<br>Bovine necropsy-21<br>Equine necropsy-01<br>Felines necropsy-14<br>Ovine & Caprine necropsy -43<br>Piglets necropsy-24<br>Laboratory Animals necropsy/ other-04<br>Poultry necropsy-519<br>Rabies diagnosis-19<br>Exfoliative cytology-56            | 748                          |                              |     |
|                          |                                  | ABST & Culture-14<br>Culture & Microscopic examination-2<br>RBPT for Brucellosis-5   | 21                           |                              |     |
|                          |                                  | <b>RFFIT</b> for Anti-rabies vicinal antibody titre <b>serum</b> samples of dogs and cats  | 223                          |                              |     |
|                          |                                  | <b>DFA &amp; LFA</b> for Rabies diagnosis (dog, cat, cattle, buffalo, sheep, goat, horse, bats)- brain samples.  | 394                          |                              |     |
|                          |                                  | <b>Total</b>   | <b>24477</b>                 |                              |     |
|                          |                                  | 2  | Veterinary College,<br>Bidar | Radiographs                  | 336 |
|                          |                                  |  |                              | Ultrasonography              | 137 |
|                          |                                  |  |                              | Animal blood sample analysis | 543 |
| Serum sample analysis    | 80                               |  |                              |                              |     |
| Animal fecal sample      | 616                              |  |                              |                              |     |
| Skin scrappings          | 100                              |  |                              |                              |     |
| ABST                     | 6                                |  |                              |                              |     |
| Histopathology/Cytology  | 24                               |  |                              |                              |     |
| Urine analysis           | 56                               |  |                              |                              |     |
| Rumen fluid              | 309                              |  |                              |                              |     |
| Milk/ Meat samples       | 33                               |  |                              |                              |     |
| Worms for identification | 5                                |  |                              |                              |     |
| Pregnancy diagnosis      | 138                              |  |                              |                              |     |



|   |                                   |   |             |
|---|-----------------------------------|---|-------------|
|   |                                   | Any other services please mention   | 2           |
|   |                                   | Any other services  | 8           |
|   |                                   | C-arm   | 50          |
|   |                                   | Morphological diagnosis mainly through PM exam  | 210         |
|   |                                   | <b>Total</b>  | <b>2653</b> |
| 3 | Veterinary College,<br>Shivamogga | Blood samples for haemoparasites  | 31          |
|   |                                   | Faecal sample for parasitic egg/ova   | 50          |
|   |                                   | Skin scrapings  | 2           |
|   |                                   | Arthropod parasites   | 5           |
|   |                                   | Wildlife Blood and Faecal samples   | 35          |
|   |                                   | ABST & Isolation (Domestic)   | 69          |
|   |                                   | Wild life samples   | 1           |
|   |                                   | Avian Necropsy  | 26          |
|   |                                   | Ovine necropsy  | 16          |
|   |                                   | Caprine necropsy  | 4           |
|   |                                   | Bovine necropsy   | 2           |
|   |                                   | Rabbit necropsy   | 7           |
|   |                                   | Swine necropsy  | 2           |
|   |                                   | Rodent necropsy (Rats)  | 120         |
|   |                                   | Wild animal necropsy  | 4           |
|   |                                   | Cytopathology   | 74          |
|   |                                   | Research cytopathology  | 230         |
|   |                                   | Histopathology  | 62          |
|   |                                   | PG histopathology   | 620         |
|   |                                   | Laboratory tests:<br>Number of clinical samples examined in the central clinical laboratory of TVCC during the period from 01 <sup>st</sup> April 21 to 31 <sup>st</sup> March 2022                             | 2518        |
|   |                                   | Diagnostic tools:<br>a) Ultrasonography scanning - 164<br>b) Electrocardiogram (ECG) - 85   | 249         |
|   |                                   | <b>Total</b>  | <b>4127</b> |
| 4 | Veterinary College,<br>Hassan     | Identification of Figurine of Ivory   | 1           |
|   |                                   | (VCC) samples - 62- Isolation, Identification, ABST   | 62          |
|   |                                   | Veterinary Institutions (samples) - 26- Isolation, Identification, ABST   | 26          |
|   |                                   | Post mortem examinations:<br>Cattle- 22, Sheep - 61, Goat - 8, Peafowl-3, Ostrich - 2, Pig - 11, Rabbit - 2, Dog - 3, Leopard - 2, Deer - 1, Quails - 22, Fish -2, Pigeon - 1, Elephant - 1 and poultry - 1543. | 1684        |
|   |                                   | Analysis of clinical samples:<br>Histopathology - 12, Cytology - 121  | 133         |
|   |                                   | Field visits on disease investigation   | 8           |
|   |                                   | Diagnosis of cyanide, Nitrate and pesticide Poisoning   | 8           |
|   |                                   | Culture and sensitivity tests for milk, urine and any biological fluids.  | 83          |

|   |                              |  |             |
|---|------------------------------|--|-------------|
|   |                              | Antibiotic sensitivity test for milk.<br>Brucella diagnostic test.<br>Rabies diagnosis by FAT, DRIT, Rapid lateral flow assay,<br>Water sample testing,<br>Meat speciation by using PCR tests<br>Faecal examination test<br>Tests for milk for physical parameters<br>Rapid diagnosis for –CD, Leptospirosis, Mycobacterium , babesia, IB, IBD and ND<br>Diagnosis of Leptospirosis- Staining tests, Dark field microscopy |             |
|   |                              | Faecal samples- 90<br>Blood- 735<br>Skin scrapings- 4<br>External parasites - 5 Internal parasites - 8   | 842         |
|   |                              | Faecal sample- 82<br>Blood sample- 978<br>Serum sample - 324<br>Urine sample- 4<br>Milk sample- 13<br>Rumen fluid- 46<br>Skin scraping- 24<br>Others - 41  | 1512        |
|   |                              | Radiography-306<br>Ultrasonography-125<br>C-arm-145<br>Endoscopy-18<br>Ophthalmoscopy/phaco-05<br>Infra Red physiotherapy-25<br>US physiotherapy-05  | 629         |
|   |                              | ECG - 85<br>Faecal sample- 82<br>Blood sample- 978<br>Serum sample - 324<br>Urine sample- 15<br>Milk sample- 13<br>Rumen fluid- 134<br>Skin scraping- 24   | 1655        |
|   |                              | Disease investigation at<br>Arsikere, Holenarsipura, Koravangala (Hassan district)) and Hosanaadu (Dakshina Kannada)   |             |
|   |                              | PD – 267<br>VEC - 221  | 488         |
|   |                              | <b>Total</b>   | <b>7131</b> |
| 5 | Veterinary College,<br>Gadag | Haematological and Biochemical analysis of samples received from clinics, Microbiology tests   | 238         |
|   |                              | Post Mortem Examination  | 94          |
|   |                              | Clinical Pathology   | 26          |
|   |                              | Disease Investigation  | 4           |

|                    |  |   |                                |
|--------------------|--|---|--------------------------------|
|                    |  | Qualitative Diagnostic tests done for presence of heavy metals, nitrate, cyanide in suspected samples received from Clinics   | 10                             |
|                    |  | Ultra sound scanning  | 29                             |
|                    |  | <b>Total</b>  | <b>401</b>                     |
| 6                  | College of Fisheries, Mangaluru                  | Shrimp health status/pathogens, control/management measures; on water quality parameters and steps to be taken to prevent waterborne infections/ETP water analysis / potability testing | 1141 water +67 shrimp +34 fish |
|                    |  | Water properties and water density  | 6                              |
|                    |  | <b>Total</b>  | <b>1242</b>                    |
| 7                  | IAH&VB, Bengaluru                                | <b>Total</b>  | <b>103587</b>                  |
| 8                  | CRIC, Timmapur-Bagalkot                          | Ultrasonography for scanning  | 15                             |
|                    |  | <b>Total</b>  | <b>15</b>                      |
| 9                  | FRIC, Hebbal-Bengaluru                           | Eutrophication of the Lakes and also to know the Heavy Metal level / Fish death / Weed infestation  | 1023                           |
|                    |  | <b>Total</b>  | <b>1023</b>                    |
| 10                 | FRIC, Hesaraghatta-Bengaluru                     | -   | -                              |
| 11                 | FRIC, Bhutnal-Vijayapura                         | Diagnosis of moribund fish and soil + Water analysis in and around Vijayapura District  | 38                             |
|                    |  | <b>Total</b>  | <b>38</b>                      |
| 12                 | FRIC, Ankola-Uttar Kannada                       | Water Temperature, pH, Sanility, Alkalinity and Sediment Temperature and pH   | 64                             |
|                    |  | <b>Total</b>  | <b>64</b>                      |
| 13                 | Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru | Diagnostic/Problematic plots Visits   | 55                             |
|                    |  | Scientist visits to farmers fields  | 87                             |
|                    |  | Soil Sample   | 152                            |
|                    |  | Water Sample  | 81                             |
|                    |  | <b>Total</b>  | <b>375</b>                     |
| 14                 | AHP, Konehalli-Tumkuru                           | Screening Fecal Samples of Amrithmahal Cattle, Sheep, Goat, Pig and Cross breed Animals of LRIC (A), Konehalli.   | 15                             |
|                    |  | Blood examination for hemoglobin estimation in Amrithmahal cattle and cross breed cows  | 25                             |
|                    |  | Examination of Skin Scrapings   | 10                             |
|                    |  | Milk Adulteration Test  | 25                             |
|                    |  | <b>Total</b>  | <b>75</b>                      |
| 15                 | AHP, Kunnur-Haveri                               | Blood, urine, faeces, Rumen fluid examination, Skin scraping and milk samples examination   | 80                             |
|                    |  | <b>Total</b>  | <b>80</b>                      |
| 16                 | AHP, Bargi-Chamarajnagar                         | -   | -                              |
| <b>Grand Total</b> |  |   | <b>145288</b>                  |

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

| #                                   | Department/Farm                  | Supplied item and Quantity          |                                 | Remarks<br>(Amount<br>Collected in Rs.) |
|-------------------------------------|----------------------------------|-------------------------------------|---------------------------------|---|
| 1                                   | Veterinary College,<br>Bengaluru | Stem cuttings (Super Napier)        | 5,100                           | 5100.00                                 |
|                                     |                                  | Milk                                | 45631 lts                       | 941342.40                               |
|                                     |                                  | Sheep and goats                     | 2 Nos.                          | 17000.00                                |
|                                     |                                  | Pigs and piglets                    | 205 Nos.                        | 705380.00                               |
|                                     |                                  | Fodder root slips/stem cuttings     | 4900 Nos.                       | 4900.00                                 |
|                                     |                                  | Ragi grains                         | 705 kgs                         | 19740.00                                |
|                                     |                                  | Feed ingredients                    | 1000 kgs                        | 21000.00                                |
|                                     |                                  | Manure (cow dung)                   | 2000 kgs                        | 6000.00                                 |
|                                     |                                  | Miscellaneous                       | (8 male calves, 250 gunny bags) | 5120.00                                 |
|                                     |                                  | Day old Giriraja chicks             | 49155+845                       | 1106992.00                              |
|                                     |                                  | Day old Swaradhara chicks           | 27450+486                       | 697608.00                               |
|                                     |                                  | Day old parent chicks               | 3618+72                         | 608600.00                               |
|                                     |                                  | Day old local chicks                | 37178+652                       | 948536.00                               |
|                                     |                                  | Hatching eggs                       | 7648                            | 114867.00                               |
|                                     |                                  | Incubated eggs                      | 2925                            | 61425.00                                |
|                                     |                                  | Table eggs                          | 4652                            | 26912.00                                |
|                                     |                                  | Broken eggs                         | 1430                            | 5720.00                                 |
|                                     |                                  | Feed                                | 125403                          | 3833766.00                              |
|                                     |                                  | Soyabean meal                       | 280 kgs                         | 11760.00                                |
|                                     |                                  | Manure                              | 14 tons                         | 2100.00                                 |
|                                     |                                  | Birds                               | 2158<br>(5210 kgs)              | 835520.00                               |
|                                     |                                  | Local Birds                         | 537<br>(946.6 kgs)              | 239645.00                               |
|                                     |                                  | Paddy husk                          | 7118                            | 47796.00                                |
|                                     |                                  | Gunny bags                          | -                               | 8409.00                                 |
|                                     |                                  | 2 <sup>nd</sup> week day old chicks | 354                             | 21240.00                                |
|                                     |                                  | 3 <sup>rd</sup> week day old chicks | 915                             | 64050.00                                |
| 4 <sup>th</sup> week day old chicks | 275                              | 24750.00                            |                                 |   |
| 5 <sup>th</sup> week day old chicks | 1478                             | 192140.00                           |                                 |   |
| <b>Total</b>                        |                                  |                                     | <b>10577418.40</b>              |   |
| 2                                   | Veterinary College, Bidar        | Day old Chicks                      | 2418 × Rs. 30                   | 72540.00                                |
|                                     |                                  | Fertile Eggs                        | 250 × Rs. 11                    | 2750.00                                 |

|   |                                 |   |                |  |
|---|---------------------------------|---|----------------|--|
|   |                                 | Two Week Old Chicks   | 212× Rs. 55    | 11660.00   |
|   |                                 | Three week old birds  | 2514× Rs. 80   | 201120.00  |
|   |                                 | Four week old birds   | 4 × Rs. 100    | 400.00   |
|   |                                 | Table Eggs  | 6× Rs. 2238    | 13428.00   |
|   |                                 | Adult Birds   | 41.25 Kg×120   | 4950.00  |
|   |                                 | Milk (Liters)   | 31.75          | 8825.00  |
|   |                                 | Mango and Cashew  | -              | 25000.00   |
|   |                                 | <b>Total</b>  |                | <b>340673.00</b>   |
| 3 | Veterinary College, Shivamogga  | Sale of Birds   |                | 56500.00   |
|   |                                 | Sale of eggs  |                | 151882.00  |
|   |                                 | Sheep and Goat  |                | 183600.00  |
|   |                                 | By sale of Piglets and Pig  |                | 118540.00  |
|   |                                 | Vermi compost   |                | 2550.00  |
|   |                                 | Sale of milk  |                | 597649.00  |
|   |                                 | Auction of Surplus animals  |                | 111300.00  |
|   |                                 | Maize grain production - 152 Quintals   |                | -  |
|   |                                 | Fodder production - 131 tons  |                | -  |
|   |                                 | Hybrid Napier silage - 1.5 ton  |                | -  |
|   |                                 | Sale of Root slips  |                | 48485.00   |
|   |                                 | <b>Total</b>  |                | <b>1270506.00</b>  |
| 4 | Veterinary College, Hassan      | Piglets - 201   |                | -  |
|   |                                 | Poultry - 10174   |                | -  |
|   |                                 | Eggs - 205  |                | -  |
|   |                                 | Sheep - 12  |                | -  |
|   |                                 | Goat - 2  |                | -  |
|   |                                 | Compounded Feed - 15382   |                | -  |
|   |                                 | Milk - 7793.5 liters  |                | -  |
|   |                                 | Rootslip / Saplings - 300   |                | -  |
|   |                                 | Fodder Seeds - 35 kg  |                | -  |
|   |                                 | Fodder Maize - 1200 kg  |                | -  |
|   |                                 | <b>Total</b>  |                | <b>-</b>   |
| 5 | Veterinary College, Gadag       | Eggs produced and sold - 13800 (as on 31 <sup>st</sup> March 2022) avg 600 eggs sold at avg rate of Rs 3.5 – Approximately Rs. 2.2 lakh income is generated |                | 220000.00  |
|   |                                 | Sale of sheep (7) - Rs. 47000/-   |                | 47000.00   |
|   |                                 | <b>Total</b>  |                | <b>267000.00</b>   |
| 6 | College of Fisheries, Mangaluru | Nile tilapia  | 2845           | Supplied good quality fish seed so as to enable the fish farmers to achieve better fish production |
|   |                                 | Koi card  | 22             |  |
|   |                                 | Gambusia  | 330            |  |
|   |                                 | Guppy   | 96             |  |
|   |                                 | <b>Total</b>  |                | <b>-</b>   |
| 7 | IAH&VB, Bengaluru               | HS vaccine  | 6873200 doses  | -  |
|   |                                 | ET Vaccine  | 34945600 doses | -  |
|   |                                 | B Q Vaccine   | 410000 doses   | -  |

|    |                           |  |                |  |
|----|---------------------------|--|----------------|--|
|    |                           | Anthrax spore vaccine                              | 1483700 doses  | -  |
|    |                           | Rabies Vaccine                                     | 80288 doses    | -  |
|    |                           | PPR Vaccine  | 26201000 doses | -  |
|    |                           | Sheep pox vaccine                                  | 2275500 doses  | -  |
|    |                           | KFD Vaccine  | 59640 doses    | -  |
|    |                           | CSF vaccine  | 110500 doses   | -  |
|    |                           | Bluetongue inactivated vaccine –                   | 1050000 doses  | -  |
|    |                           | ND R2B vaccine                                     | 101900 doses   | -  |
|    |                           | ND F vaccine                                       | 37000 doses    | -  |
|    |                           | RBPT antigen                                       | 142857 doses   | -  |
|    |                           | Brucella Plain antigen                             | 6000 doses     | -  |
|    |                           | MRT Antigen  | 59850 doses    | -  |
|    |                           | Mycoplasma antigen                                 | 350 doses      | -  |
|    |                           | Mycoplasma vaccine                                 | 20100 doses    | -  |
|    |                           | Duck Pasteurella vaccine                           | 20000 doses    | -  |
|    |                           | <b>Total</b>                                       |                | -  |
| 8  | LRIC, Hallikhed, Bidar    | Sale of milk (8799.80 Lit)                         |                | 930000.00  |
|    |                           | Super Napier Stem cuttings (4,83,700)              |                |  |
|    |                           | Hedge Lucerne (99.25 Kgs)                          |                |  |
|    |                           | Sesbenia Seeds (29.0 Kg)                           |                |  |
|    |                           | Multi-cut Sorghum (12.0 kgs)                       |                |  |
|    |                           | Vermicompost (25 kg)                               |                |  |
|    |                           | Farm yard Manure (38 Tractor Trolley)              |                |  |
|    |                           | Jowar grains (450 kg)                              |                |  |
|    |                           | Cow urine (7 lit)                                  |                |  |
|    |                           | <b>Total</b>                                       |                | <b>930000.00</b>   |
| 9  | LRIC, Nagamangala, Mandya | 52 Elite Breeding Mandya Rams ( Free distribution) |                | Under Mega Sheep Seed Project  |
|    |                           | 142 Fodder Root slips                              |                | Supplied to needy farmers  |
|    |                           | <b>Total</b>                                       |                | -  |
| 10 | LRIC, Konehalli, Tumakuru | COFS-29 -2.0 kg                                    |                | Supplied to needy farmers  |
|    |                           | Fodder slips CO-3- 200 nos.                        |                |  |
|    |                           | <b>Total</b>                                       |                | -  |
| 11 | BRIC, Doranahalli         | Sale of COFS- 29                                   | 87 KG          | 34800.00   |
|    |                           | Sale of COFS- 31                                   | 110 KG         | 44000.00   |
|    |                           | Sale of Milk                                       |                | 466410.00  |
|    |                           | Sale of Hedge Lucern                               | 65.5 KG        | 39300.00   |
|    |                           | <b>Total</b>                                       |                | <b>584510.00</b>   |
| 12 | CRIC, Timmapur, Bagalkot  | Mudhol hound pups 15( M-04 F- 11)                  |                | Mudhol Hound pups were sold to public and different Government departments |
|    |                           | <b>Total</b>                                       |                | -  |

|          |   |   |            |   |
|----------|---|---|------------|---|
| 13       | FRIC, Hebbal, Bengaluru                           | Cultivable Fish Seed –1,32,284 Nos.         |            | Supplied to needy fish farmers / stakeholders |
|          |   | Ornamental fish – 14,056 Nos.               |            |   |
|          |   | Local Guppies– 94,201 Nos.                  |            |   |
|          |   | Bulk fish sold – 81.50 kg                   |            |   |
|          |   | <b>Total</b>                                |            | -   |
| 14       | FRIC, Hesaraghatta, Bengaluru                     | Cultivable Fish seed –6,54,415 Nos.         |            | Supplied to needy fish farmers / stakeholders |
|          |   | Ornamental fish – 9,202 Nos.                |            |   |
|          |   | <b>Total</b>                                |            |   |
| 15       | FRIC, Bhutnal, Vijayapura                         | Fish seed supplied - 2,90,730 Nos.          |            | -   |
|          |   | <b>Total</b>                                |            | -   |
| 16       | FRIC, Ankola, Uttar Kannada                       | Etroplus fish seeds: 2360 Nos.              |            | -   |
|          |   | Ornamental fishes : 708 Nos.                |            | -   |
|          |   | <b>Total</b>                                |            | -   |
| 17       | Krishi Vigyan Kendra, Dakshina Kannada, Mangaluru | MO4 Paddy Seeds                             | 1030 Kg.   | 31930.00                                      |
|          |   | Sahyadri Panchamukhi paddy seeds            | 365 Kg.    | 11315.00                                      |
|          |   | Bhendi Seeds                                | 300 gm.    | 360.00  |
|          |   | Fodder cuttings-CO-3                        | 716 Nos.   | 2268.00                                       |
|          |   | Earthworms-Eudrilus eugeniae                | 15.5 Kg.   | 10075.00                                      |
|          |   | Greengram seeds                             | 37 Kg.     | 4040.00                                       |
|          |   | Vermicompost                                | 484 Kg.    | 7260.00                                       |
|          |   | Green manure seeds-Sunhemp                  | 108 Kg.    | 8640.00                                       |
|          |   | Green manure seeds-Dhaincha                 | 78 Kg.     | 6240.00                                       |
|          |   | Fish fingerlings facilitated to the farmers | 25780      | 48889.00                                      |
|          |   | Swarnadhar poultry Birds                    | 2728       | 282949.00                                     |
|          |   | Milk Production                             | 13288 Ltr. | 508519.00                                     |
|          |   | FYM   | 110 CFt    | 8250.00                                       |
|          |   | Coconut                                     | 2770 Nos.  | 43862.00                                      |
|          |   | Fish feed facilitated to the farmers        | 417 Kg.    | 21060.00                                      |
|          |   | Compost culture facilitated to the farmers  | 1Kg.       | 180.00  |
|          |   | Bhendi Vegetables                           | 3.5 Kg.    | 175.00  |
|          |   | Auction sale of Bulk Paddy                  | 2382 Kg.   | 39104.00                                      |
|          |   | Mango                                       | -          | 22300.00                                      |
|          |   | Jackfruit                                   | -          | 5800.00                                       |
|          |   | Sapota                                      | -          | 500.00  |
| Tamarind | -   | 1000.00                                     |            |   |
| Cashew   | -   | 500.00                                      |            |   |
|          |   | <b>Total</b>                                |            | <b>1065216.00</b>                             |

|                    |                          |   |                    |   |
|--------------------|--------------------------|---|--------------------|---|
| 18                 | AHP, Konehalli, Tumakuru | Lucerne seed, hybrid Napier root slips, Susbenia and Moringa saplings CoFS 29 Seeds |                    | 25 beneficiaries were benefited                                   |
| 19                 | AHP, Kunnur, Haveri      | CoFS seeds 20 kg  |                    | Given free of cost to encourage growing of fodder at farmers land |
| 20                 | AHP, Koravangala, Hassan | -   |                    | -   |
| 21                 | AHP, Dornahalli, Yadgir  | Sheep   | 17 Nos.            | 57925.00  |
|                    |                          | Girija Birds  | -                  | 45750.00  |
|                    |                          | COFS 31   | 494.5 Kg           | 197800.00   |
|                    |                          | Goat Kids   | -                  | 21000.00  |
|                    |                          | <b>Total</b>  |                    |   |
| <b>Grand Total</b> |                          |   | <b>15357798.40</b> |   |



## 10. Consultancy / Advisory Services

| # | College / Institute              | Total Number | Remarks  |
|---|----------------------------------|--------------|--|
| 1 | Veterinary College, Bengaluru    | 1008         | Technical guidance given to various livestock, poultry and pet owners on health management, disease diagnosis, etc.  |
| 2 | Veterinary College, Bidar        | 209          | Cattle, Buffeloe, Poultry and Goat Training to farmers / Consultancy / Advisory Services about scientific feeding, breeding, health care, project reports, entrepreneurship, bank linkages, marketing / Information of Dairy Farming, Sheep Farming, Goat Farming, Fodder Production, fodder conservation and Vermicomposting / Consultancy through farm visits and through telephonic message / Telephonic advises / Disease investigations / Advised the formers on scientific feeding of livestock's / Disease investigations / Former were advised on breeding and infertility management  |
| 3 | Veterinary College, Shivamogga   | 736          | Technical guidance given to various livestock, poultry and pet owners on health management, disease diagnosis, etc.  |
| 4 | Veterinary College, Hassan       | 1036         | Consultancy given to farmers who visited the department and over phone with respect to disease prevention in poultry, cattle, sheep, goat, rabbit, pig etc. / Consultancy given to farmers / Plant and Pesticide Poisoning / Suggestions regarding treatment and control of parasitic diseases of animals has been given to the farmers / Information on Dairy/Sheep/Goat/Poultry and Piggery / Consultancy given to farmers   |
| 5 | Veterinary College, Gadag        | 274          | Consultancy provided to farmers on various aspects of animal husbandry, planning for new animal husbandry ventures etc.  |
| 6 | Dairy Science College, Bengaluru | 22           | The samples did not show presence of coli forms while showed <i>Bacillus</i> sp. / Few students will be getting job after completion of degree / Quality tests for milk and milk products / Overcome the defect / Collected the milk samples and analysed milk samples for Fat and SNF obtained from Dairy farm of Raj Bhavan, Bengaluru / Ghee samples collected and analysed supplied by Rajajinagar Bangalore / Milk samples supplied from GKVK analysed for fat, SNF, Ash and total solids / Dairy Entrepreneurs- Bangalore, Complete analysis of ghee / Ghee samples were analysed supplied from Chamarajinagar private plant / Milk samples supplied from GKVK analysed for fat, SNF, Ash and total solids |

|    |                                 |      |  |
|----|---------------------------------|------|--|
| 7  | College of Fisheries, Mangaluru | 239  | Consultancy has been given to the fish farmers/entrepreneurs/general public about fish/shrimp/prawn/crab culture, ornamental fish breeding, aquatic ornamental plants propagation, preparation of fish feed, common fish diseases and their treatments etc. / The Department worked as nodal agency for conducting the bathymetry work and submitted the report to the Deputy Commissioner of Dakshina Kannada district. / Worked as a committee member for finalization of floating jetty tender of K.F.D.C. Mangaluru on 06/04/2021 / The Department staff inspected the newly constructed boats on 24-08-2021 and 28-10-2021 and submitted the report to the Department of Fisheries, GOK / “Tonnage capacity of Refrigerated Transport vehicle” K.F.D.C. Mangaluru / Information given about water quality, fish farming and I.F.S |
| 8  | IAH&VB, Bengaluru               | -    | -  |
| 9  | IWVR, Doddaluvara, Kodagu       | 20   | Advisory was provided in terms of health care and management of wild animals belonging to Dubare, mathikode elephant camps   |
| 10 | LRIC, Hallikhed, Bidar          | 500  | Advisory services on scientific animal husbandry and fodder production   |
| 11 | LRIC, Nagamangala, Mandya       | 371  | On an average 210 telephonic calls per month have been answered on different animal husbandry activities. Majority of them were pertaining to sheep rearing activities   |
| 12 | LRIC, Konehalli, Tumakuru       | -    | -  |
| 13 | BRIC, Dornalli, Yadgir          | 400  | On fodder production and dairy   |
| 14 | CRIC, Timmapur, Bagalkot        | 350  | Telephone advice to 350 people regarding Mudhol Hound Dog Rearing  |
| 15 | FRIC, Hebbal, Bengaluru         | 500  | Biofloc Technology / Fish Culture / Fish seed rearing / Ornamental fish production   |
| 16 | FRIC, Hesaraghatta, Bengaluru   | 500  | Fish Culture / Fish seed rearing / Ornamental fish production / Duck cum fish culture / Poultry cum fish culture   |
| 17 | FRIC, Bhutnal, Vijayapura       | 1863 | Information about fish farming, pond construction, water quality aspects, availability of traditional feed, and preparation of value added products by fish information given through trainings, demonstrations, field days, meals, over phone, radio and TV   |
| 18 | FRIC, Ankola, Uttar Kannada     | 43   | Milk Fish/shrimp/crab/Ornamental fish farming, Fish/shrimp seed availability/aquatic weeds, Tidal chart reading and information, Fresh water prawn culture etc.  |

|              |   |              |  |
|--------------|---|--------------|--|
| 19           | Krishi Vigyan Kendra,<br>Dakshina Kannada,<br>Mangaluru | 11992        | Telephone consultation to farmers / Farm Advisory Services including farmers visit to KVK / News paper Coverage / Video/Film shows / SMS Messages / Group Discussion Meeting / Farmers Scientist Interaction / Exposure Visit / Whats app / TV Programme |
| 20           | AHP, Konehalli, Tumkuru                                 | 60           | Advisory Service was given to the farmers on Dairy Farming, Poultry Farming, Sheep and Goat Farming, Piggery Farming and Integrated Farming System   |
| 21           | AHP, Kunnur, Haveri                                     | 10           | Guided farmers regarding dairy farming and sheep and goat farming  |
| 22           | AHP, Koravangala,<br>Hassan                             | -            | -  |
| 23           | AHP, Bargi,<br>Chamarajnar                              | 8            | Regarding infertility of animals, cyanide Nitrate and OPC poisonings in animals  |
| 24           | AHP, Doranahalli, Yadgir                                | 350          | Regarding admission, fodder production & Sheep & goat rearing  |
| <b>Total</b> |   | <b>20491</b> |  |

## 11. Activities on Village/Farm Adoption

### VETERINARY COLLEGE, BENGALURU

Byadarahalli a new village of Bengaluru Rural District has been identified for village adoption.

### VETERINARY COLLEGE, BIDAR

Kangankot, Budhera, Kadwad, Andur and Kolar (B) are adapted for ambulatory clinical services.

Ambulatory vehicle goes to one village each day for 5 day a week.

Clinical and extension services are rendered to the farmers.

Animal health camp conducted in association with NSS in Budera village.

### VETERINARY COLLEGE, HASSAN

In the interest of Hassan Veterinary College, a committee was constituted to identify a village for adoption by Hassan Veterinary College. The committee had duly consulted the officials of Dept. of AH & VS/ HAMUL and had visited the identified villagers and interacted with the Veterinary doctors/village heads/SHGs and suggested the name of the village which can be adopted and submitted the same to Director of Extension, KVAFSU.

On Monday and Thursday Visiting to Chickabuvanahalli and Kommanahalli respectively.

On Tuesday, Wednesday, Friday and Saturday Visiting to Veterinary dispensary, Doddi road, K R puram, Hassan.

### VETERINARY COLLEGE, GADAG

Various activities were undertaken in Sambhapur village of Gadag district by Veterinary College, Gadag to bring development of livestock. Regular ambulatory clinical visit once a week is conducted with students and faculty of Veterinary Clinical Complex. Farmers were benefited in the form of different types of trainings and demonstrations related to livestock rearing activities. Deworming / Vaccination / Animal Health camps were conducted for the benefit of farmers.

### CANINE RESEARCH AND INFORMATION CENTRE, TIMMAPUR, MUDHOL

Timmapur village is adopted by CRIC, Mudhol to encourage the farmers of the region to rear the Mudhol hounds and build their livelihood through sale of puppies.

Healthy and good characteristic puppies are identified and purchased via revolving fund and distributed to interested public and government agencies on payment basis (university price) in order to promote the Mudhol hound rearing.

### Mudhol Hound to Indian Army, RVC, SSB, CRPF, CISF, BSF, Air Force, etc.:

06 Mudhol hounds (03 Male & 03 Female) through the Dean, Veterinary College, Bangalore (Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar) were provided to Remount Veterinary Centre (RVC) and College, Meerut for feasibility trial for induction into

Indian army. These dogs are now successfully trained for various activities at RVC, Meerut and presently, are serving at the Shrinagar border area.

4 dogs are handed over to Sashatra Seema Bhal (SSB) Rajasthan

4 dogs to the CRPF Bangalore

1 dog to CISF, SDSC, Sriharikota, Andra Pradesh.

4 dogs to Border Security Force, Tekanpur, Madhyapradesh.

2 dogs to Forest Department, Bandipura, Karnataka.

1 dog to Police Department, Bagalkot for feasibility trial to introduce into Karnataka Police on the auspicious occasion of Republic Day from Hon'ble DCM of Karnataka Shri Govind M Karjol.

6 dogs to Air Force, Agra, UP

### **ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI, TUMAKURU**

A Socio-economic survey was conducted at different villages of Tiptur 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.

## 12. Distinguished Visitors to the Institutes

| #                                     | Name, Designation and Institute   | Date                           | Purpose  |
|---------------------------------------|---|--------------------------------|--|
| <b>VETERINARY COLLEGE, BIDAR</b>      |   |                                |  |
| 1                                     | Dr. L. Narasinga Moorthy<br>ARS & his team senior Executive Director of National Fisheries Dept. of Board Department of Fisheries, AH and Dairy, GOK, INDIA | 29.01.2022                     | Visited institution and pathology museum in order to inspect pathology specimens and other administrative capacity |
| 2                                     | Dr. KML Pathak<br>Chairman- VCI inspection team   | 22.09.2021                     | VCI recognition of Veterinary College  |
| 3                                     | Dr. S.B. Barbhudhe<br>Director, ICAR-NRCM, Hyderabad  | 30.04.2022                     | Departmental visit on the eve of World Veterinary Day-2022   |
| 4                                     | The Secretary to Govt.<br>Dept. of AH&F, GoK  | 21.08.2021                     | visited the campus for meeting and inspection  |
| 5                                     | Ramachandra, DC, Bidar  | 23.08.2021                     | Visited the Nandinagar campus, Bidar regarding location of site for construction of stadium                        |
| 6                                     | Dr. Rudresh Ghali, DC (Add)   | 23.08.2021                     |  |
| 7                                     | Dr. D. Kannan   | 20.09.2021                     | VCI inspection at VCB  |
| 8                                     | Dr. S.K. Singh  | 20.09.2021                     | VCI Inspection at VCB  |
| 9                                     | Dr. Purushotham   | 20.09.2021                     | VCI inspection at VCB  |
| 10                                    | Dr. K.M.L. Pathak   | 01.03.2022                     | UGC team visited the Veterinary College, Bidar and KVAFSU, Bidar for inspection                                    |
| 11                                    | Dr. Virendrakumar Shukla  | 01.03.2022                     |  |
| 12                                    | Dr. (Ms). Amita Sexena  | 01.03.2022                     |  |
| 13                                    | Dr. B.C. Kapri  | 01.03.2022                     |  |
| 14                                    | Dr. Latha, K.C.   | 01.03.2022                     |  |
| <b>VETERINARY COLLEGE, SHIVAMOGGA</b> |   |                                |  |
| 1                                     | Dr. Kantharaj, L., Executive Committee Member, VCI  | 11.09.2021                     | Visit to College   |
| 2                                     | Dr. Chaluvaiiah, Rtd. Director, AH&VS   | 11.09.2021                     | Visit to College   |
| 3                                     | Dr. S.K.Bhavsar, Professor & Head, Dept. of Veterinary Pharmacology & Toxicology, College of Veterinary Science and Animal Husbandry, Anand, Gujarat        | 20.09.2021<br>to<br>22.09.2021 | Official VCI Inspection  |
| 4                                     | Dr. Naresh Kumar Sing, Professor & Head, Dept. of Veterinary Surgety and Radiology, Banaras Hindu University, Varanasi                                      | 20.09.2021<br>to<br>22.09.2021 | Official VCI Inspection  |
| 5                                     | Dr. Lakavath Ramsingh, Assistant Professor, Dept. of Veterinary Clinical Complex, Colege of Veterinary Science, Korutla, Telangana                          | 20.09.2021<br>to<br>22.09.2021 | Official VCI Inspection  |
| 6                                     | Dr. K.P. Ramesha, Member, BOM, KVAFSU, Bidar  | 09.11.2021                     | Official visit to College  |
| 7                                     | Sri Manjunath C.T., Executive Engineer, KREDL, Bangalore  | 11.02.2022                     | Official visit to College  |
| 8                                     | Manjunatha Swamy M T, Assistant Director, DYES, Shivamogga  | 02.03.2022                     | Khelo India Scheme Visit to College  |

| <b>VETERINARY COLLEGE, HASSAN</b>                           |  |  |  |
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| 1   | Dr. S Abdul Rahman<br>Executive director, Commonwealth<br>Veterinary association   | 23.03.2022   | Workshop on brain sample<br>collection, packaging,<br>transport and diagnosis of<br>Rabies in animals        |
| 2   | Dr Vasanth Shetty, Former Dean, HVC,<br>KVAFSU   | 30.04.2022   | World Veterinary Day   |
| <b>VETERINARY COLLEGE, GADAG</b>                            |  |  |  |
| 1   | <b>Visit of VCI Inspection Team:</b> The<br>Committee was headed by Dr. V. S. Wazir,<br>Professor, Dept of Veterinary Medicine,<br>Faculty of Veterinary Science & Animal<br>Husbandry, RS Pura, SKUAST-Jammu and<br>other Inspection team members were Dr B. J.<br>Patel., Professor & Head, Dept of Veterinary<br>Pathology, Sardar Krushinagar Dantiwada<br>Agricultural University, Sardar Krushinagar,<br>Gujarat and Dr Debasish Niyogi Professor &<br>Head, Dept of Veterinary Pathology, College<br>of Veterinary Science & Animal Husbandry,<br>Acharya Narendra Deva University of<br>Agriculture & Technology, Kumaraganj,<br>Ayodhya, Uttar Pradesh. Hon'ble Vice-<br>Chancellor Prof H. D. Narayana Swamy and<br>Estate officer Sri Ramappa, K., were also<br>present during the inspection process. All the<br>HoDs and Unit In-charge have successfully<br>completed the inspection process of their<br>respective departments/ Units | 20 <sup>th</sup> to 22 <sup>nd</sup><br>September,<br>2021 | The Inspection of Veterinary<br>college about the fulfillment<br>of MSVE-2016 regulations<br>was carried out |
| <b>DAIRY SCIENCE COLLEGE, KALABURAGI</b>                    |  |  |  |
| 1   | Shushanth. M. Chougale, Hon'ble District<br>Senior Civil Judge, Kalaburagi   | 31.03.2022   | World consumer rights days<br>celebration  |
| <b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KUDIGE</b>    |  |  |  |
| 1   | Dr. Suresh Bhat, Deputy Director,<br>Department of AH&VS, Kodagu.  | 09.12.2021   | As a Chief Guest for the<br>training Programme on<br>"Human-Wildlife Conflict<br>and its solutions"          |
| 2   | Dr. Dinesh N.M, Member, Board of<br>Management, KVAFSU, Bidar  | 16.02.2022   | As a Chief Guest for the<br>training Programme on<br>"Chemical Restraint in Wild<br>Animals"                 |
| 3   | Dr. Prasad Murthy, Additional Director,<br>(Extension) Department of AH&VS,<br>Pashubhavana, Hebbal, Bengaluru.  | 16.02.2022   | As a Chief Guest for the<br>training Programme on<br>"Chemical Restraint in Wild<br>Animals"                 |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b> |  |  |  |
| 1   | Shri. Prabhu Chavan,<br>Hon'ble Minister for Animal Husbandry,<br>GoK  | 29.06.2021   | To review activities at LRIC<br>(Deoni), Bidar   |

| <b>CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR</b>               |   |                                |   |
|---|---|--------------------------------|---|
| 1   | Smt. Salma K Fahim,<br>Principal Secretary<br>Dept of Animal Husbandry,<br>Karnataka    | 27.02.2022                     | Casual visit and appreciated the breed characteristics and institutes role and activities   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>   |   |                                |   |
| 1   | Mrs.Amita Saxena,<br>UGC Member<br>ICAR-New Delhi                                       | 05.03.2022                     | To see the activities of FRIC, Hebbal   |
| <b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b> |   |                                |   |
| 1   | Dr. S Kalagatagi, Dean, College of Agriculture, Vijayapur.                              | 16.02.2022                     | Participated as a Chief Guest for validatory function of training programme on Biofloc and RAS at FRIC, Bhutnal, and Vijayapur.                                     |
| 2   | Dr R B Belli, ADE, College of Agriculture, Vijayapur.                                   | 16.02.2022                     | ADE, College of Agriculture and Co-Ordinate for Extension Council member for KVFSU is attended for validatory function and distributed the certificate for trainees |
| 3   | Dr Ganesh Kumaran Asst Director of MPEDA (Mangalore division)                           | 02.03.2022<br>to<br>04.03.2022 | participated has resource person for three day training programme on "SEA BASS NURSERY CULTURE" sponsored by MPEDA, Mangalore Regional Center                       |
| 4   | Shir Basavaraj Kumbar Ex-president KADA Vijayapur                                       | 02.02.2022                     | Participated as a Chief guest for Inauguration programme on "Freshwater Ornamental Fish production and marketing" sponsored by NFDB, GoI                            |
| <b>KRISHI VIGYAN KENDRA, MANAGALURU</b>                               |   |                                |   |
| 1   | Dr. Nithyananda Bhakta, KMF, Mangaluru  | 01.06.2021                     | Participated as a resources person for on line training programme   |
| 2   | Dr. K.K.Singh, ADG(IMD) New Delhi   | 09.10.2021                     | Site selection for DAMU establishment at our KVK Campus.  |
| 3   | Mr. B. Vishnu Bhat, Farmer Fisheries Development Commissioner, Ex. Director, MPEDA, Gov | 01.12.2021                     | Interaction regarding fisheries activities implementation in the district.  |
| 4   | Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Zone-XI, Bengaluru                     | 28.12.2021                     | Review of ongoing activities of KVK, Dakshina Kannada   |
| 5   | Dr. V. Venkatasubramanian, Director, ICAR-ATARI, Zone-XI, Bengaluru                     | 31.01.2022                     | Participation in XII <sup>th</sup> SAC meeting  |



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| 6  | Dr B. Hemla Naik, Director of Extension, KSNUAHS, Shivamogga           | 31.01.2022 | Participation in XII <sup>th</sup> SAC meeting   |
| 7  | Dr T. N. Ravi Prasad, Director, Directorate of Cashew Research, Puttur | 31.01.2022 | Participation in XII <sup>th</sup> SAC meeting   |
| 8  | Dr. V. Venkatasubramanian, Director, ICAR - ATARI, Zone-XI, Bengaluru  | 08.02.2022 | Joint Review meeting with the Vice chancellor, Director, ICAR-ATARI, Zone-XI, Bengaluru, Registrar, KVAFSU, Bidar, Comptroller, KVAFSU, Bidar along with KVK Staff |
| 9  | Dr. K.K.Singh, ADG(IMD) New Delhi                                      | 02.03.2021 | Discussion with scientists regard utilization of weather based information for providing agro advisory services to farming community.                              |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, BARGI-CHAMARAJANAGARA</b> |  |            |  |
| 1  | Mrs. Charulatha Somal<br>District Commissioner<br>Chamarajangar        | 10.09.2021 | To discuss the sanction of land for the establishment of AHP College, Bargi, Chamarajanagara   |

### 13. Important decisions taken during 16<sup>th</sup> Extension Education Council Meeting held on 22.12.2021 at Bidar

- Dr. M.D. Chandaragi, Director of Extension, University of Agricultural Sciences, Raichur stressed upon need of farmer oriented technology developed by the university and its usage at field level. Further, he expressed the need of extension activities in protein rich feeds owing to increasing demand over cereals.
- Sri. Mandrira Tejas Naniah, Progressive Fish Farmer, Kodagu suggested the adoption of scientific feeding in fish rearing to gain more economical return.
- Sri. Jayaguru Achar, H., Progressive Dairy Farmer, Dakshina Kannada suggested to conduct extension training program on scientific dairy farming for the benefit of farmers.
- Mohammed Laik, Progressive Poultry Farmer, Bidar suggested to conduct more training programmes on scientific poultry farming.
- Dr. H.D. Narayanaswamy, Hon'ble Vice-Chancellor, KVAFSU, Bidar expressed need to conduct skill based training programmes to youths during summer holidays and further insisted adoption of villages and carryout dairy and fisheries related activities in the adopted village.

## IV. PUBLICATIONS

### 1. Research Papers

#### i) International Publications

##### a) In Journals

| #  | <i>Authors, Year of publication, Title of the paper and Journal</i>  |
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| <b>VETERINARY COLLEGE, HEBBAL, BENGALURU</b> |  |
| 1  | Aminullah, N., T.M. Prabhu, Jayanaik, B.N. Suresh and Indresh, H.C., 2021. Performance of Swarnadhara breeder hens supplemented with reduced levels of different copper forms. <i>Veterinary World</i> , 14(5):1371-1379.  |
| 2  | Anusha Bai, Wilfred Ruban, S., Spandan, P.V., Ahlen, I.G. Barry, Naveen Kumar, S., Indresh, H.C. and Nagaraja, C.S., 2021. Carcass and Meat quality characteristics of native chicken reared under backyard and farm setting in Karnataka. <i>Asian Journal of Dairy and Food Research</i> , Volume DOI:10.18805/ ajdfr.DR-1699.   |
| 3  | Basava Reddy, K., Ansar Kamran C., Ramesh P.T., Upendra H.A., Suguna Rao and Mahesh, V., 2021. Prognostic indicators in dogs with secondary pulmonary hypertension due to dilated cardiomyopathy. <i>The Pharma Innovation Journal</i> , 10(11):2493-2495.   |
| 4  | Basava Reddy, K., C. Ansar Kamran, H.A. Upendra, Suguna Rao and V. Mahesh, 2021. Pulsed wave Doppler echocardiographic evaluation and management of atrial fibrillation in dogs with dilated cardiomyopathy. <i>Journal of Animal Research</i> , 11(4):643-648.  |
| 5  | Bhagya, B.K., C. Ansar Kamran, Suguna Rao and B.M. Veeragowda, 2021. Histopathology of skin lesions of canine atopic dermatitis in pugs. <i>J. of Entomol. &amp; Zool. Stud.s</i> , 9(1):603-606.  |
| 6  | Bhajantri, S., Nagaraja, R., Yathish, H. M. and Prasanna, S.B., 2021. Identification of <i>CXCR1</i> gene variants and their association with somatic cell count in HF Cross bred and Deoni Cattle. <i>The Pharma Innovation Journal</i> , 10(11):2098-2102.   |
| 7  | Bharath Kumar, N., H.C. Indresh, T.N. Krishnamurthy and Jayanaik, 2021. Supplementation of <i>Asperagrus racemosus</i> (Shatavari) on immune parameters in Giriraja birds. <i>International Journal of Current Microbiology and Applied Science</i> , 10(8):320-324.   |
| 8  | Chandrashekar, M., Yathish, H.M., Basavraj Inamdar, Naveen Kumar, S., Prasanna, S.B. and Nagaraja, C.S., 2021. Characterization of growth traits in indigenous and Punjab broiler-2 chicken of Karnataka. <i>The Pharma Innovation Journal</i> , 10(9):767-771.  |
| 9  | Chiranth, J.P., Narasimha Murthy, Sahadev, A., Sudha, G., Narayana Swamy, M., Sharada, R. and Rashmi, R., 2021. Prophylactic effect of intrauterine ozonated oil on uterine involution in postpartum crossbred dairy cows. <i>The Pharma Innovation Journal</i> , 10(11):2626-2629.  |
| 10   | Gowda, B.R., Prakash, N., Santosh, C.R., Pavithra, B.H., Rajashekharaiyah, R., Satyanarayana, M.L., Rao, S., Waghe P., Kumar K., Shivaprasad, G.R. and Muralidhar, Y., 2022. Effect of Telmisartan on arsenic-induced (Sub-chronic) perturbations in redox homeostasis, pro-inflammatory cascade and aortic dysfunction in wistar rats. <i>Biological Trace Element Research</i> , 200(4):1776-1790. |
| 11   | Gowri Yale, Marwin Lopes, Shrikrishna Isloor, Jennifer, R. Head, Stella Mazeri, Luke Gamble, Kinzang Dukpa, Gyanendra Gongal and Andrew, D. Gibson, 2022. Review of oral rabies vaccination of dogs and its application in India. <i>Viruses</i> , 14(1):155.  |
| 12   | Gunaranjan, K.S., Sudha, G., Sahadev, A., Bhajantri, S., Kalmat, G.P., Kshama, A. and Prasanna, P., 2021. Use of vitamin E to augment fertility in cattle by optimizing endometrial thickness. <i>Journal of Entomology and Zoology Studies</i> , 9(1):457-460.  |
| 13   | Gunaranjan, K.S., Sudha, G., Sahadev, A., Yathish, H.M., Bhajantri, S., Kalmat, G.P. and Kshama, A., 2021. Optimizing endometrial thickness to augment fertility in cattle using estradiol. <i>The Pharma Innovation Journal</i> , 10(5):785-789.  |

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| 14 | Hombegowda, G.P, Suresh, B.N., Shivakumar, M.C., Ravikumar, P., Girish, B.C., Rudrappa, S.M. and Indresh, H. C. 2021. Growth performance, carcass traits and gut health of broiler chickens fed diets incorporated with single cell protein. <i>Anim. Bio-Sci.</i> , 34(12):1951-1962.   |
| 15 | Inamdar, B., Nagaraja, R., Naveen Kumar, G.S., Yathish, H.M., Naveen Kumar, S. and Sudha, K.V., 2021. Husbandry Practices and Phenotypic Characterization of Bidri goats in Karnataka. <i>Asian Journal of Dairy and Food Research</i> , 40(4):365-370.  |
| 16 | Inamdar, B., Nagaraja, R., Yathish, H.M., Kumar, S.N., Kumar, G.S.N. and Sudha, K.V., 2021. Profiling of Chromosomal Complement in Nandidurga Goats of Karnataka. <i>Asian Journal of Dairy and Food Research</i> , 40(3):285-289.   |
| 17 | Kamalakar, G., Nagaraja, B.N., Suresh, L., Sahadev, A., Prakash, N. and Mahesh, V., 2021. Haemato-biochemical alterations in cattle with plastic impaction. <i>The Pharma Innovation Journal</i> , 10(6):355-360.  |
| 18 | Kamalakar, G., Nagaraja, B.N., Suresh, L., Sahadev, A., Prakash, N. and Mahesh, V., 2021. Studies on occurrence of rumen impaction in cattle. <i>Journal of Entomology and Zoology Studies</i> , 9(1):1625-1630.   |
| 19 | Jyothi, K., Sudha, G., Krishna, K.M., Sahadev, A., Narayana Swamy, M., Suguna Rao and Kshama, M.A. 2021. Gestational age estimation and validation using ultrasonic measurements of fetal biparietal diameter and occipito nasal length in Nellore brown ewes. <i>Journal of Animal Research</i> , 11(2):325-331.  |
| 20 | Kavitha, G., Dilip, L., Isloor, S., Rathnamma, D., Sharada, R., Narayanaswamy, H.D., Byregowda, S.M., Venkatesha, M.D., Gyanendra, G., Avinash S. Bhat, Hridya, S. Varughese, Tilak, C.S. and Vinay, C.P., 2022. Comparative evaluation of lateral flow assay with direct fluorescent antibody assay for surveillance of rabies in animals in India. <i>The Pharma Innovation Journal</i> , 11(2):883-887. |
| 21 | Kavyashree, S., Sudha, G., Yathish, H. M., Sahadev, A., Suguna Rao and Mahesh, V., 2022. Conceptoin rates at field level using Osmanabadi Buck semen cryopreseved with low density Lipo proteins. <i>The Pharma Innovation Journal</i> , 11(4):380-382.  |
| 22 | Kumar, B.S., Ramesh, H.S., Nandi, S. and Kumar, G., 2021. Comparative efficacy of Aegel marmelos and Mimosa pudica leaf extracts on the rat ovarian follicular population and other organs weights. <i>The Pharma Innovation</i> , 10(5):811-815.  |
| 23 | Lekshmi J. Das, Isloor, S., Santhosh, A.K., Avinash Bhat, Sharada, R., Rathnamma, D., Veeregowda, B.M., Phaniraj, K.L., Nageshkumar Abhijit Kumar and Abi, T. Vanak, 2022. Comparative evaluation of the estimation of rabies virus antibodies among free-roaming, vaccinated dogs in Bengaluru, India. <i>Viruses</i> , 14:484.   |
| 24 | Lohith, J., Y.B. Rajeshwari, Vivek, M. Patil, Mahadevappa, D. Gouri and S.B. Prasanna, 2021. Study on constraints faced by Malnad Gidda cattle farmers in Shivamogga district of Karnataka. <i>Ruminant Science</i> , 10(1):127-132.   |
| 25 | Mahendra, P., Mridula, D., Lema, A.G. and Leena, G., 2021. Growing role of Arcobacters as an emerging potential pathogen of humans and animals. <i>Acta Scientific Microbiology</i> , ISSN: 2581-3226.   |
| 26 | Mahesh, V., H. Rashmitha, Preetham Kumar, S.V., Shivaraju, E. and B.N. Nagaraja, 2022. Surgical management of orchitis in Gir bullock by scrotal ablation technique. <i>Journal of Livestock Sciences</i> , 13:38-40.  |
| 27 | Mahesh, V., Prerana, S.J., Ka malakar, G., Rashmitha, H. and Nagaraja, B.N., 2021. Aural fibroepithelial polyp excision through lateral ear canal resection in a German Shepherd dog: A case report. <i>The Pharma Innovation Journal</i> , 10 (9):22-24.  |
| 28 | Manasa, V., Girish Kumar, V., Ramesh. H .S., Suchitra, B.R., Sudha, G. and Pooja, C.H. 2022. Cellular and molecular pathways associated with ovarian physiology and estrus cycle in buffaloes. <i>The Pharma Innovation Journal</i> , 11(2):639-646.   |

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| 29 | Manassa, V., Girish Kumar, V., Ramesh, H.S., Suchitra, B.R., Sudha, G. and Pooja, C.H. 2022. Effect of methods of protein preparation on the separation of urinary proteins from buffaloes at specific stages of estrous cycle by SDS-PAGE. <i>The Pharma Innovation Journal</i> , 11(2):653-657.   |
| 30 | Megharaj, P., Veeranna, K.C., Manjunatha, L., Madhavaprasad, C.B., Gopala, G.T. and Rudresh, B.H., 2021. Development and Validation of Educational Multimedia Module for Dissemination of Scientific Feeding Practices in Dairy Animals. <i>Ruminant Science</i> , 10(1):111-116.   |
| 31 | Narasimha Murthy, Nanditha, H.J., Sudha, G., Sahadev, A., Ansar Kamran and Suresh, L. 2021. Doppler ultrasonographic assessment of uterine artery blood flow indices during normal pregnancy in labrador retriever. <i>International Journal of Recent Scientific Research</i> , 12(7):42568-42572.   |
| 32 | Nasim Sohail, M., D. Rathnamma, S. Chandra Priya, S. Isloor, H.D. Naryanaswamy, S. Wilfred Ruban and B.M. Veeregowda, 2021. Salmonella from farm to table: isolation, characterization, and antimicrobial resistance of salmonella from commercial broiler supply chain and its environment. <i>BioMed Research International</i> , 1-12.               |
| 33 | Naveen Kumar, G.S., Basavraj Inamdar, Hemanth Gowda and Shrikanth Dodamani, 2021. Phenotypic and Carcass Characterization of Hassan Sheep. <i>Asian Journal of Dairy and Food Research</i> , Volume 10.18805.   |
| 34 | Patil, A.S., B.N. Nagaraja and L. Ranganath, Vasanth, M.S. and Prasad, R.V. , 2021. Studies on midventral surgical approach to the fractured lumbar spine and stabilization using polymethyl methacrylate and pins in dogs. <i>Journal of Experimental Zoology</i> , 24(2):1455-1462.   |
| 35 | Patil, A.S., B.N. Nagaraja, L. Ranganath, Vasanth, M.S. and Prasad, R.V., 2021. Hematobiochemical studies on lumbar vertebral stabilization by midventral approach using polymethyl methacrylate and pins in dogs. <i>Journal of Experim. Zoology</i> , 24(2):1473-1478.  |
| 36 | Prakasha, G., Mudalagiryappa, Hanumanthappa, D.C. and Somashekar, K.S., 2021. Yield and nitrogen use efficiency of maize ( <i>Zea mays</i> L.) as influenced by green seeker based nitrogen management practices. <i>Frontier in Crop Improvement</i> , 9:1186-1190.  |
| 37 | Ragavendra Srikanth N., V. Girish Kumar, K. Aswani Kumar and Ramesh H. S. 2021. Changes in serum biochemistry and acute phase proteins in canine mammary tumour affected dogs. <i>The Pharma Innovation Journal</i> , 10(6):24-25.  |
| 38 | Raghavendra, G., Mahadevappa, D. Gouri, Vivek, M. Patil, Basavaraj Inamdar, Umesh Mirje, Prasanna, S.B., Prabhu, T.M. and Bhajantri, S., 2022. Bio-climatological influence on the productive performance in lactating dairy cows. <i>The Pharma Innovation Journal</i> , 11(3):805-809.  |
| 39 | Raghuraman, J., Shivakumar, M.C., Indresh, H.C. and Jayanaik, 2021. Influence of unconventional feedstuff on immune parameters in Giriraja birds. <i>International Journal of Current Microbiology and Applied Science</i> , 10(7):638-641.   |
| 40 | Rahul, P.A., V. Mahesh, Narayanaswamy. H.D., Nagaraja, B.N., Ranganatha, L. and Srinivasa Murthy, K.M., 2021. Haemato-biochemical observations on treatment of femoral diaphyseal fracture using titanium alloy (Ti-6Al-7Nb) nails with elastic stable intramedullary nailing technique in dogs. <i>The Pharma Innovation Journal</i> , 10(10):482-485. |
| 41 | Rajath Sagare, M.A. Kshama, M. Narayana Bhat, Suguna Rao, Sharada, R. and Prakash, N. 2021. Assessment of serum cystatin C concentration in dogs by an enzyme linked immune sorbent assay - An early and prognostic marker in renal failure. <i>The Pharma Innovation Journal</i> , 10(6):569-573.  |
| 42 | Raju Metri, G.C. Puttalakshamma, H. Dhanalakshmi and Jaya, N. Lakkundi, 2022. Control of biting flies with KVAFSU Tabnid trap (Indigenous Mechanical Device). <i>International Journal of Science and Research</i> , 11(3):970-976.   |

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| 43 | Rashmi, R., P. Ravikumar, N. Prakash, G. Srinivasa Rao, V. Rama Devi, M. Metta, U. Sunilchandra and C.R. Santhosh, 2021. Evaluation of cytotoxicity potential of 6-thioguanine on HeLa cancer cell line. <i>The Pharma Innovation</i> , 10(11):907-909.   |
| 44 | Reena Arora, Naveen Kumar Siddaraju, S.S. Manjunatha, S. Sudarshan, Mohamed Nadeem Fairoze, Ashish Kumar, Pooja Chhabra, Mandeep Kaur, R.M. Sreesujatha, Sonika Ahlawat and Ramesh Kumar Vijn, 2021. Muscle transcriptome provides the first insight into the dynamics of gene expression with progression of age in sheep. <i>Scientific Reports</i> , 11:22360.   |
| 45 | Sagar R.S., Narayana Bhat M., Ansar Kamran, C., Kshama, M.A., Sahadev, A., Suguna Rao, Naveen Kumar, S., Kalmath, G.P. and Basava Reddy, K.. 2020. Occurrence of canine cardiac diseases in Bangalore. <i>Journal of Entomology and Zoology Studies</i> , 8(6):824-829.   |
| 46 | Sathisha, K.B., Narayana Swamy, M., Kalmath, G.P., Shrikant Kukarni, Srinivas Reddy, B. and Siddalinga Muthy, H.K., 2021. Influence of different seasons on serum hormonal and electrolytes profiles of Mandya sheep. <i>The Pharma Innovation Journal</i> , 10(2):30-34.   |
| 47 | Sebastian, A., Girish Kumar, V., Nandi, S. and Murthy, V.C. , 2021. Blood haematological and biochemical parameters in normal cycling. <i>Asian Pacific Journal of Reproduction</i> , 1(2):117-119.   |
| 48 | Shivakumar, R., Wilfred Ruban, S, Srikrishna Isloor, Ahlen, I.G. Barry, Rathnamma, D., Sharada, R. and Ravikumar, P., 2022. Antimicrobial susceptibility pattern of E. coli isolated from healthy piglets in pig farms located in and around Bengaluru, India. <i>The Pharma Innovation Journal</i> , 11(1):870-873.  |
| 49 | Shivaprasad, G.R., Prakash Nadoor, Suguna Rao, Ramesh, P.T., Pavithra, B.K., Leena Gowda, Shridhar Naryan Bhat, Rashmi, R., Tollamadugu Naga Venkata Krishna Vara Prasad and Muralidhar Yagiraddy, 2023. Comparative studies on dispersion characters of Titanium Dioxide (TiO <sub>2</sub> ) Nanoparticles for rodent toxicology studies, <i>Letters in Applied Nano Bio Science</i> , 12(2):51.               |
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| 3 | Naik, D.T., Rajendra Kumar, T., and Jyothi C, 2021 Large intestinal coccidiosis without involvement of caeca in poultry, International veterinary pathology conference 2021, XXXVIII annual conference of IAVP and 12 th annual meeting of Indian college of veterinary pathologists and international symposium on advances in veterinary pathology for diagnosis and control of emerging and reemerging diseases of livestock, wild animals and poultry, organised by Department of Veterinary Pathology, College of Veterinary and Animal Science Rajasthan University of Veterinary and Animals Sciences Bikaner – e-compendium page no 246 |



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| 4 | Nishma M N., Kavitha Rani B., Manjunatha S S., Ajay Kumar, Preetham M R., Jayaramu G M., Ulcerative Gastritis and Necrotic Enteritis in Star Tortoise. Compendium of International Veterinary Pathology Congress 2021 organized by Dept. of Veterinary Pathology, College of Veterinary & Animal Science, Bikaner from 17-19 December 2021. Page: 170-171.  |
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| 16                                | Nikitha Nishit Salian., Ravi Raidurg., Sujay CS., Vanishree Hiremath., Patel Suresh Revanna, Manjunatha SS and Naveen Kumar S (2022) “ Comparisons of two approaches (midline and lateral incisions) for vasectomy in leopards ( <i>Panthera pardus fusca</i> )” .   |
| <b>VETERINARY COLLEGE, HASSAN</b> |  |
| 1                                 | Jaishankar N, Ramachandra B and Thirumalesh T. Economic analysis of feeding urea ammoniated sugarcane trash on performance of Narisuvarna x Kenguri-F1 lambs. <i>Proceedings of IISTEM International conference, Coorg, India on 15<sup>th</sup> Nov. 2021: 13-15</i>  |
| 2                                 | Jaishankar N, Thirumalesh T and Ramachandra B. Economic analysis of feeding sugarcane trash based total mixed ration on performance of Narisuvarna x Kenguri-F1 Sheep. <i>Proceedings of IISTEM International conference, Coorg, India on 15<sup>th</sup> Nov. 2021: 16-19.</i>  |

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| 3 | Nagappa Karabasanavar, Archana S. Nair, T.R. Manjushree and Raveendra Hegde.2021. Occupational health hazards among field veterinarians-A questionnaire-based survey. International e-Symposium on “One Health Concept: Opportunities and Perspectives in Present Scenario” & XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized by Organized by Centre for One Health Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India. May 28 & 29, 2021. Pp.55   |
| 4 | Supriya K., Nagappa Karabasanavar, C.B. Madhavaprasad, Md. Nadeem Fairoze, Girish Patil S., Kotresh A.M., Prashantkumar Waghe, G.K. Sivaraman, Prashant S. Bagalkote, Santosh A. Sajjan. 2021. Antimicrobial resistance and molecular epidemiology of <i>Staphylococcus</i> species across milk supply chain. International e-Symposium on “One Health Concept: Opportunities and Perspectives in Present Scenario” & XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized by Organized by Centre for One Health Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India. May 28 & 29, 2021. Pp.65 |
| 5 | Nagappa Karabasanavar, Satheesha S.P., Archana S. Nair, Manjushree T.R., Girish Patil S., and G.K. Sivaraman.2021. Virulence genes and antimicrobial resistance in non-typhoidal <i>Salmonella</i> serovars isolated from pigs of the central Karnataka region, India. International e-Symposium on “One Health Concept: Opportunities and Perspectives in Present Scenario” & XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized by Organized by Centre for One Health Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India. May 28 & 29, 2021. Pp.137.                                      |
| 6 | Nagappa Karabasanavar, Archana S. Nair, T.R. Manjushree and P. Ravikumar.2021. Assessment of farm ground water for quality parameters. International e-Symposium on “One Health Concept: Opportunities and Perspectives in Present Scenario” & XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized by Organized by Centre for One Health Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India. May 28 & 29, 2021. Pp.75  |
| 7 | Nagappa Karabasanavar, Archana S. Nair, and K.L. Phaniraja. 2021. Profile of bacteria and antimicrobial susceptibility of mastitic milk. International e-Symposium on “One Health Concept: Opportunities and Perspectives in Present Scenario” & XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized by Organized by Centre for One Health Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India. May 28 & 29, 2021. Pp.158   |
| 8 | Nagappa Karabasanavar, Archana S. Nair, Girish B.C. and Aruna Poojary.2021. Bovine mastitis due to <i>Candida parapsilosis</i> in a crossbred cow. Symposium on “One Health Concept: Opportunities and Perspectives in Present Scenario” & XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS) organized by Organized by Centre for One Health Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India. May 28 & 29, 2021. Pp.171.  |

**LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED**

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| 1 | Prakashkumar Rathod and Vijaykumar N (2021). Issues and Suggestions in Animal Husbandry Sector. In: International Web Conference on Innovative and Current Advances in Agriculture and Allied Sciences during 19-21 July, 2021. Pp 85-87. |
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**LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI**

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| 1 | H. Shenoy and M N Siddaraju (2021) Yield and quality attributes of rice as influenced by integrated nitrogen management. <i>Extended Summary</i> in: 5 <sup>th</sup> International Agronomy Congress 2021 “Agri-innovations to combat food and nutrition Challenges” 23-27 November,2021 at PJTSAU, Hyderabad, Telangana. India. pp.1276-1277. |
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| 2  | Shenoy. H and Siddaraju. M N. (2021) Substitution of nitrogen fertilizer through organic sources and its effect on rice ( <i>Oryza sativa</i> L) yield. Abstract In: 2 <sup>nd</sup> International Web-Conference “Smart Agriculture for Resource Conservation and Ecological stability “organized by Academy of Natural Resource Conservation and Management, Lucknow during oct 29-31,2021.pp141                |
| <b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b> |   |
| 1  | Shambhulingappa, Y Baddi, Ganga Naik, S and Rajashailesha, N. M. 2022.Forensic analysis of peacock ( <i>Pavocristatus</i> ) feather in comparison with feather of native fowl ( <i>Gallus domesticus</i> ) by Gross and Microscopic study. International conference on “modern concepts in anatomy: New era tools in health and disease. Held at Veterinary College, Hisar, Haryana on 10-12 March 2022. Page. 42 |

## ii) National Publications

### a) Publications in Journals

| #                                    | Year/ Authors / Title of Paper / Journal   |
|--------------------------------------|--|
| <b>VETERINARY COLLEGE, BENGALURU</b> |  |
| 1                                    | Abhilash, H.R., Naveen Kumar, S., Nagaraja, R., Yathish, H.M. and Jagadeeswary, V., 2022. Polymorphism study of <i>POUIF1</i> gene in Mandya and NARI-Suwarna Sheep. <i>Indian Journal of Animal Research</i> , DOI: 10.18805/IJAR.B-4777.   |
| 2                                    | Basava Reddy, K., C. Ansar Kamran, P.T. Ramesh, H.A. Upendra, Suguna Rao, V. Mahesh. 2022. Importance of right pulmonary artery distensibility index in the diagnosis and management of pulmonary arterial hypertension secondary to canine dilated cardiomyopathy. <i>Indian Journal of Animal Research</i> , (Volume):1-5.                         |
| 3                                    | Bogapathi, S.K., Shetty, R.H., Sumanta, N. And Venkataswamy, G.K.2021. Effect of the <i>Murraya koenigii</i> and <i>Moringa oleifera</i> Leaf Extracts on the Ovarian Follicular Population and other Organ Weights in Rats ( <i>Rattus norvegicus</i> ). <i>The Indian Journal of Veterinary Sciences and Biotechnology</i> ,17(3):24.              |
| 4                                    | Deepthi, B., D. Ratnamma, R.N. Ramani Pushpa, Shrikrishna Isloor, B.M. Veeregowda and C.H. Sudha Rani Chowdary, 2021. Clinicopathological characterization of Chicken origin velogenic Avian Avula virus-1 isolated from back yard poultry. <i>Indian J. Vet. Pathol.</i> , 45(3):202-208, DOI:10.5958/0973-970X.2021.00037.7.                       |
| 5                                    | Hanamanta Nyamagonda, Muniyappa, N. Swamy, Gurubasayya, P. Kalmath, Suguna Rao, Pujari, T. Ramesh, Srikrishna Isloor and Malavalli, P. Veena., 2022. Serum mineral profile in Holstein Friesian crossbred cows with normal and low solids-not-fat milk syndrome. <i>The Indian Journal of Veterinary Sciences and Biotechnology</i> , 18(1):101-103. |
| 6                                    | Hemanth Gowda, K., Narayana Swamy, M. and Sridhar, N.B., 2021. Reproductive hormones profiles in Malnad Gidda cows during estrous cycle. <i>Indian Journal of Animal Sciences</i> , 91(12):1031-1034.  |
| 7                                    | Kumar, A., Y.B. Rajeshwari, V.M. Patil, R.R. Yadav, S.M. Ali, G.S. Shaswath, S.K. Bhandekar, A. Katiyar, M.K. Durrani and P. Karan, 2021. Impact of social housing and social separation on haematological and physiological parameters in Syrian male hamsters. <i>Indian Journal of Animal Health</i> , 60(2).                                     |
| 8                                    | Mahesh, V., Anjitha Krishna, B., Sagar, R.S. and Nagaraja, B.N., 2021. Excision of Conjunctival Dermoid Cyst in a Persian cat. <i>Frontier Journal of Veterinary and Animal Sciences</i> , 10(1):14-16.  |
| 9                                    | Mahesh, V., Bhumika, K. and Nagaraja, B.N., 2021. Surgical Correction of Acquired Oronasal Fistula in a Cat Using VonLangenbeck Method. <i>Frontier Journal of Veterinary and Animal Sciences</i> , 10(1):11-13.   |
| 10                                   | Manjunatha, D.R., R.V. Suresh Kumar, B.N. Nagaraja, P. Veena , P. Jagapathiramayya and C.H. Srilatha, 2022. Fibrinous Pericarditis and its Surgical Management in Cattle. <i>Indian Journal of Animal Research</i> , 4761:1-6.   |
| 11                                   | Nihar, S., Kumar, S.N., Ruban, W., Yathish, H.M., Nagaraja, R. and Nagaraja, C.S., 2021. Genetic Polymorphisms of Chicken Antiviral Mx1 and TVB Genes in Indigenous and Giriraja Chicken. <i>Indian Journal of Animal Research</i> , DOI: 10.18805/IJAR.B-4710.  |
| 12                                   | Nethravathi, B.T., P.T. Ramesh and R.E. Sushma, 2021, Sequential monitoring of pre-exposure antirabies vaccinal neutralizing antibodies in dogs. <i>Indian Journal of Animal Research</i> , DOI: 10.18805/IJAR.B-4767.   |
| 13                                   | Pankaj Dhavalagi, Anil Kumar, M.C., Anjan Kumar, K.R., Ramesh, P.T., Kalmath, G., Dhanalakshmi, P., Ravikumar, P., Suchitra B.R., Yathish, H.M. and Shivaraj Murag, 2021. Coagulation profile in Ehrlichiosis affected dogs. <i>Frontier Journal of Veterinary and Animal Sciences</i> , 9(2):1-5.   |

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| 14 | Ramesh, H.S., Somashetty, Nandi Sumanta, Girish, K. and Venkatesh, 2021. Effect of different concentrations of amphregulin/neuregulin/tumour necrosis factor- $\alpha$ on ovine oocytes, aturation in vitro. <i>The Indian Journal of Veterinary Sciences and Biotechnology</i> , 17(4):1-5.                |
| 15 | Ramesh, H.S., Manjunatha, K., Nandi, S. and Kumar, V.G. , 2021. Effect of season, age and follicular phases on ovarian follicular population of ewes. <i>Indian Journal of Small Ruminants</i> , 27(2):88-192.  |
| 16 | Ramesh, H.S., Nandi, S., Gupta P.S.P. and Girish Kumar, V. , 2022. Technique for isolation of preantral follicles from goat ovaries for better in vitro culture. <i>Indian Journal of Agriculture and Allied Sciences</i> , 8(1):31-35.   |
| 17 | Sagar, R.S., Narayana Bhat, M., Ansar, K.C., Naveen Kumar, S., Kshama, M.A., Sahadev, A., Suguna Rao, Kalmath, G.P., 2021. Creatine Kinase-MB as a cardiac biomarker in canine cardiac disorders. <i>Ind J Vet Sci and Biotech.</i> , 17(3):27-30.  |
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| 20 | Suchitra, B.R., Dinesh, N.M., Yathish, H.M., Sudha, G., Anil Kumar, M.C., Renukaradhya, G.J. and Chandraskhekar Murthy, V. , 2022. Factors influencing the gestation length in thoroughbred mares bred during foal heat in India. <i>Indian Journal of Animal Sciences</i> , 92(3):311-313.                 |
| 21 | Sushma, R.E., Ramesh, P.T., Lathamani, V.S., Parkash Nadoor, Suguna Rao and Suresh Patel R., 2021. Haematological and biochemical alter ations in cats infected with feline haemotropic mycoplasmosis. <i>Frontier Journal of Veterinary and Animal Sciences</i> , 10(1):1-4.                               |
| 22 | Veena, M.P., Narayana Swamy, M., Kalmath, G.P., Lathamani, V.S., Swetha, H.S., Shrinivas Reddy, B., Sathisha, K.B. and Hanamanta, N., 2021. Studies on metabolic profile and growth hormone levels in growing Bannur female sheep. <i>Frontier Journal of Veterinary and Animal Sciences</i> , 10(1):21-27. |

**VETERINARY COLLEGE, BIDAR**

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| 1 | Bhosale, A.V., Awati, B.I., Mallinath, K.C. , Isloor, S., Ravindra, B.G., Lunavat, G., Kavitha, K., Kharate, A.G., 2021. Occurance of Rabies in Post Exposure Vaccinated Cattle with Dog Bite Injury above the Neck Region. <i>Indian Journal of Animal Research</i> , 1:1-6, Reference Id No-B -4825.        |
| 2 | Biradar Satish Chandra, Vidyasagar, Shrikant Dodamani and Krishnamoorthy, U., 2021. Body Condition Score Based Pricing of Bannur Breed of Sheep In Southern Karnataka, India. <i>Ruminant Science</i> , 10(1):33-35.  |
| 3 | Dilipkumar, D., Bhagvantappa, B., Ajjanagi Bheemappa, Venkatgiri and Mallikarjun, 2022. Comparative evaluation of conservative fiber cast application and surgical treatment of horn fracture in cattle. <i>Journal of Experimental Zoology, India</i> , 25(1):741-744.                                       |
| 4 | Halmandge, S.C., Upendra, H.A., Vivek, R. Kasaralika and Ramesh, P.T., 2021. Comparative therapeutic efficacy of subclinical mastitis in goats. <i>Ind.J.Vet.Med.</i> , 41(2):34-37.  |
| 5 | Kapase, G., Kulkarni, S., Mohan, K., Kalmath, G.P. and Math, K.S., 2021. Biochemical and Physicochemical Characteristics in Different Skeletal Muscles of Sheep Hind Limb. <i>Asian Journal of Dairy and Food Research</i> , 40(4):371-375.   |
| 6 | Kumar Swamy, Dilipkumar, D., Venkatgiri and Vinay, P, Tikare, 2021. Clinical and physiological evaluation of induction combinations romifidine guaifenesin ketamine and dexmedetomidine guaifenesine ketamine under isoflurane anaestheisa in cattle. <i>Pharma Innovation Journal</i> , SP-10(11):1990-1992. |

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| 10 | Neelkant, Dilipkumar, D., Manjunath Patil, Bhagvantappa, B., Venkatgiri and Pallavi, 2022. Hematobiochemical and hemodynamic changes in induction agents in drip form using guaifenesin and ketamine with or without dexmedetomidine under isoflurane anaesthesia for various surgeries in cattle. <i>Journal of Experimental Zoology, India</i> , 25(1):1147-1155. |
| 11 | Nidhidhree, J. Jakkali, Venkanagouda Doddagoudar, R.G. Bijurkar, G. Malashri and M.K. Tandle, 2022. A novel, Unconventional Detorsion method for correcting left sided uterine torsion in Goat. <i>Haryana Vet.</i> , 61(SI):152-153.   |
| 12 | Ojus, S., Dilipkumar, D., Bhagavantappa, B., Vijay Kumar, M., Sandeep Halmandge, Manjunath Patil and Venkatgiri, 2022. Physiological and biochemical analysis of dogs undergoing femoral fracture repair using advanced locking plate system II and locking compression plate. <i>The Pharma Innovation</i> , 11(1):1137-1141.                                      |
| 13 | Pallavi, Dilipkumar, D., Manjunath Patil, Bhagvantappa, B. and Venkatgiri, 2022. Tibiotarsus fracture repair by titanium and stainless steel locking reconstruction bone plates in backyard poultry. <i>Journal of Experimental Zoology, India</i> , 25(1):273-277.   |
| 14 | Pasha, M.M, Venkangouda, D., Bijurkar, R.G. and Malasri, G., 2021. Successful management of uterine prolapse in a non- descriptive goat: A case report. <i>The Pharma Innovation Journal</i> 10(12):93-4.   |
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| 16 | Prashantkumar Waghe, Prakash Nadoor, Vijaykumar, M., Sunilchandra, U, Rashmi Rajashekaraiyah and Pavithra, B.H., 2022. Experimental sub-acute exposure to sodium (Meta) arsenite interferes with pharmacodynamic of meloxicam in Wistar rats. <i>The Pharma Innovation Journal</i> , 11(3):810-817.   |
| 17 | Roopali, B., Vittal, P., Qureshi, Sandeep, H. and Vivek, R. Kasaraliker, 2021. Therapeutic management of clinical mastitis in a murrah buffalo: a case report. <i>Indian J. Vet. Public Hlth.</i> , 8(1):55-57.   |
| 18 | Shrikant Dodamani, Naveen Kumar, G.S., Rudrappa, S.M., Vidyasagar, Hombegowda, G.P., Meenaxi, Pallavi Bhatambre and Karthikeyan, A., 2021. Association between Plumage Colour and Body Weight in Native Chickens. <i>J. Anim. Res.</i> , 11(3):1-03.  |
| 19 | Karuthadurai, T., Chakravarty, A.K., Kumaresan, A., Das, D.N., Shrikant Dodamani and Pradeep Nag, B.S, 2021. Identification of genetic marker for prolactin gene and its effect on fat yield in Sahiwal cattle. <i>J. Exp. Zool. India</i> , 24(2):1725-1729.   |
| 20 | Karuthadurai, T., Chakravarty, A.K., Das, D.N., Shrikant Dodamani and Pradeep Nag, B.S., 2021. Polymorphisms of Prolactin gene and the effect of non-genetic factors on test day milk and fat yield in Sahiwal population. <i>J. Exp. Zool. India</i> , 24(2):1743-1747.  |
| 21 | Karuthadurai, T., Chakravarty, A.K., Shrikant Dodamani and Pradeep Nag, B.S., 2021. Effect of exon 3 region of polymorphism in prolactin gene milk production and its composition traits in Sahiwal cattle. <i>The Pharma Innovation</i> , SP-10(7):216-219.  |

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| 22 | Karuthadurai, T., Shrikant Dodamani, Vidyasagar, Satish Chandra Biradar and Prashant, G. Waghmare, 2022. Prediction of Age Based on Quantitative Traits in Giriraja Poultry Birds. <i>J. Exp. Zool. India</i> , 25(1):381-383.  |
| 23 | Karuthadurai, T., Shrikant Dodamani, Vidyasagar, Satish Chandra Biradar and Prashant, G. Waghmare, 2022. Study of Morphometric Characterization in Giriraja Poultry Birds. <i>J. Exp. Zool. India</i> , 25(1):377-380.  |
| 24 | Vinayanada, C.O, Kiran, M., Fairoze, M.N. and Rongsensusang, 2021. Alternative poultry meat as source of nutrition: An overview. <i>J. of Meat Science and Technology</i> , 7(2):12-17.   |
| 25 | Ravindra Dombar, Ramchandra, B., Thirumalesh, T., Shrikatn Kulkarni, Suranagi, M.D., Vivek Patil and Jaishankar, N., 2021. Rumen fermentation kinetics and microbial biomass synthesis of super Napier silage, CoffS29 silage, Tur pods and concentrates by in vitro gas production technique. <i>The Pharma Innovation Journal</i> , SP-10(11):987-28/2. |
| 26 | Veena, M.P., Narayan Swamy M., Kalmath, G.P., Lathamani, I., V.S., Swetha, H.S., Shrinivas Reedy, B., Satisha, K.B. and Hanumanta, N., 2022. Studies on metabiolic profile and growth hormone levels in growing bannur female sheep. <i>Frontier J. Vet Anim Sci.</i> , 10(1):21-26.  |

**VETERINARY COLLEGE, SHIVAMOGGA**

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| 1 | Mohammad Dawood Bawer, Mamatha, G.S., G.C. Puttalakshamma, K.J. Ananda, Jaya Nagappa Lakkundi and Sharada, R., 2021. Comparison of different DNA extraction procedures for <i>Eimeria</i> oocysts. <i>Journal of Entomology and Zoology Studies</i> , 9(2):1010-1014.   |
| 2 | Ananda, K.J. and Pradeep, B.S., 2021. Prevalence of gastrointestinal parasites of small ruminants in and around Shivamogga and assessment of their risk factors. <i>Journal of Entomology and Zoology Studies</i> , 9(1):1507-1509.   |
| 3 | K. Nagaraja, Sanganagowda Koppad, U. Sunilchandra, N.B. Shridhar, C.R. Santhosh and B.M. Chandranai, 2021. Immunomodulatory effect of vitamin E in Wstar albino rats ( <i>Rattus norvegicus</i> ). <i>The Pharma Innovation Journal</i> , 10(9):1639-1645.  |
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| 8 | Ulla, M.K., Kotresh, A.M., LR, A.K., Shambulingappa, B.E., Rudresh, B.H., Madhavaprasad, C.B. and Shridhar, N.B., 2021. Analysis of oxidative stress markers in crossbred cows with subclinical mastitis and concurrent metabolic and infectious diseases. <i>International Journal of Environmental Sciences</i> , 12(1):26-31.  |
| 9 | Shridhar, N.B., Sindhu, K., Chandrashekar, G., Abdul Saddam, Sunilchandra, U., Kavitha Rani, B. and Manjunatha, S.S., 2021. Fortuitous acute salt poisoning in Kenguri sheep-An investigational study. <i>Ruminant Science</i> , 9(2):359-365.  |



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| 11 | Gurram Srinivas, S. Raju and Manju, G.U., 2021. Influence of Dietary Supplementation of Organic Acids, Probiotics and Their Combinations on Growth, Carcass Traits and Serum Parameters in Broiler Chicken. <i>Indian Journal of Animal Nutrition</i> , 42(2):201-205.  |
| 12 | Kiran, H.J., Jayaramu, G.M., Manjunatha, S.S., Kavitha Rani, B. and Satish, E.S., 2021. Pathomorphological studies on renal disorders in sheep. <i>Indian J. Vet. Path.</i> , 45(1):69-72.  |
| 13 | Manikanth, C.L., N.B. Sridhar, Sunilchndra, U., Kavitha Rani, B., Manjunatha, S.S., Prakash, N. and Aruru Keerthana, 2021. Pharmacological evaluation of <i>Aeschynomene Americana</i> (Methanolic extract) for anti-inflammatory activity in Wistar rats. <i>Frontier J. Vet. Anim. Sci.</i> , 10(1):5-11.                                     |
| 14 | Ravi Raidurg, Malatesh D.S., Naveen M., Chaitra G.R. Supriya G.S., Tajunnisa M., Patel, S.R. and Udupa, K.G., 2021. Urinary catheterization using 24G intravenous cannula for diagnosis of idiopathic cystitis in three cases. <i>Indian.J.Vet.Surg.</i> , 42(1):75.  |
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| <b>VETERINARY COLLEGE, GADAG</b> |  |
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**COLLEGE OF FISHERIES, MANGALURU**

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| 2 | Haldankar Siddhant Shrikant, Jaya Naik and Capt. Jayaprakash Mendon, 2022. Studies on the effect of Escapement of Fish Catch in the Square mesh and Diamond Mesh Codend operated along Karnataka Coast. <i>J.Exp.Zool</i> , 25(1):657-600.  |
| 3 | Haldankar Siddhant Shrikant and Jaya Naik, 2022. Standardization of Bridle length for the Square mesh Codend Trawl net operated at a depth of 25 m along Karnataka Coast. <i>J.Exp.Zool</i> , 25(1):661-668.  |

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| 9   | T.G. Puneeth, D.S. Akhila, M.M. Dechamma, K.S. Santhosh, M.N. Venugopal and S.K. Girisha, 2021. Protective efficacy of recombinant wsv477 protein against white spot syndrome virus infection in the tiger shrimp <i>Penaeus monodon</i> . <i>Indian J. Fish.</i> , 68(4):76-81, DOI: 10.21077/ijf.2021.68.4.82276-09.  |
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| 11  | Praveenjoshi, H.S., A.T. Ramachandra Naik, Lingadal Chandrakanth, Padmanabha, A.B. and Amogha, K.R., 2022. Physico-chemical characteristics and growth performance in earthen shrimp ponds at Ankola, Uttara Kannada, Karnataka. <i>J.Exp.Zool.India</i> , 25(1):1185-1192.   |
| <b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b> |   |
| 1   | Amitha Reena Gomes, Apsana, R., Savitha, J.V., Sobharani, M., S.M. Byregowda, Lohith T.S., M.D. Venkatesha, Nandini Prabhakar and Xiangliang Lin, 2021. Propagation of Peste des petits ruminants (PPR) Virus in Vero Cells for Vaccine Production using Tide Motion Bioreactor. <i>Journal of Animal Research</i> , 11(3):513-516.   |
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| 6   | Ravishankar Biradar, Vivek, M. Patil, Mahadevappa, D. Gauri, S.B. Prasanna, Shankarappa Bhajantri and Shivaraj, B.M., 2022. Effect of herbal teat dips on milk yield and composition in cattle with subclinical mastitis. <i>The Pharma Innovation</i> , 11(4):2015-2019.   |

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| 7   | Ravishankar Biradar, Vivek, M. Patil, Mahadevappa, D. Gauri, Shivaraj, B.M., S.B. Prasanna and Kalmath, G.P., 2022. Effect of herbal teat disinfectants on microbial quality of milk in cattle with subclinical mastitis. <i>The Pharma Innovation</i> , 11(4):1638-1642.   |
| 8   | Basawarajappa, S.G., Ambica, R., Shwetha, J.V., Varun, C.N., Vijay, N., Padukone, S. and Shankar, S.M., 2021. Clinical and Molecular Facets of Dengue Virus Infection from Bangalore, South India. <i>Nepal Journal of Epidemiology</i> , 11(3):1053-1062.  |
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| 10  | B.M. Chandranaik, B. Rajashekara, Amitha, R. Gomes, G. Kavitha, R. Apsana, K. Nagaraja and S.M. Byregowda, 2021. A study on the epidemiology of anthrax outbreaks in migratory cattle at Tungabhadra Dam area in Karnataka. <i>IVJ</i> , 97(12):38-42.  |
| 11  | Kavitha Govindaiah, Dilip Lakshman, Isloor Shrikrishna, Rathnamma Doddamane, Sharada Ramakrishnaiah, Narayanaswamy, H. Doddappaiah, Byregowda, S. Munivenkatappa, Venkatesha, M. Dasappa Gupta, Gyanendra Gongal, Avinash, S. Bhat, Hridya, S. Varughese, Tilak Chandan Shivakumar and Vinay, C. Prakash Rao, 2022. Comparative evaluation of lateral flow assay with direct fluorescent antibody assay for surveillance of rabies in animals in India. <i>The Pharma Innovation Journal</i> , 11(2):883-887. |
| <b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b> |   |
| 1   | Prakashkumar Rathod and Sreenath Dixit, 2021. Effect of improved management practices, productive and reproductive performance of Osmanabadi goats under semi-intensive rearing systems. <i>Indian Journal of Animal Science</i> , 91(6):499-504.   |

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

| #                                    | Year / Authors / Title of Paper / Conference   |
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| <b>VETERINARY COLLEGE, BENGALURU</b> |  |
| 1                                    | Dasmabai Banothu, K.J. Ananda, Manchukonda Udaykumar, H. Dhanalakshmi, T. Venkatesan and G.S. Sreenivasamurthy. 2021. Molecular identification of <i>Culicoides</i> midges in Telangana state, South India. 30 <sup>th</sup> National Congress of Veterinary Parasitology and National Symposium. Parbhani, Maharashtra, 14-16 December 2021, pp. 119.                     |
| 2                                    | Dhanalakshmi, H., Hemalatha Balaram, N. Lakshmeesha, Arpitha Suryavanshi and K.J.Ananda, 2021. Molecular characterization for detection and differentiation of <i>Theileria</i> species of cattle from Karnataka. 30 <sup>th</sup> National Congress of Veterinary Parasitology and National Symposium. Parbhani, Maharashtra, 14-16 December 2021, pp. 256.               |
| 3                                    | Dhanalakshmi, H., Nagaraj Jaller, N. Sandeep, and K.J.Ananda. 2021. Studies on efficacy of <i>Annona squamosa</i> leaf extracts on cattle ticks. 30 <sup>th</sup> National Congress of Veterinary Parasitology and National Symposium. Parbhani, Maharashtra, 14-16 December 2021, pp. 262   |
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| 1 | Dr M.S. Rudraswamy, A study on use of banana leaves for the treatment of burn injuries in cows Poster Session of the International Web-Conference on Resource Management and Biodiversity Conservation to Achieve Sustainable Development Goals organized online on September 11-12, 2020.                          |
| 2 | Vijayakumar Unki., Nandini, A and Pradeep, B. S., 2021. Gastrointestinal parasites of ruminants in surrounding regions of Gadag of Karnataka state- Prevalence study. 30 <sup>th</sup> National Congress of Veterinary Parasitology and National Symposium, Parbhani., 14-16 <sup>th</sup> December, 2021., Pp-207. |

|   |   |
|---|---|
| 3 | Jagannatha Rao.B, Kondal Reddy, Basawaraj Awati,Kulkarni.V.V, Madhava Rao.T and Sarjan Rao.K 2021 Recovery and utilization of lung protein isolates from slaughtered buffalo in buffalo meat patties 10 <sup>th</sup> Conference of Indian Meat Association and International symposium on Holistic Approach to the Meat Food Quality and Safety in Continuum from Farm to Fork SVPUAT,Meerut (UP) 25-27 November |
| 4 | Saikiran, Jettaboina and S.B. Prasanna (2022) Effect of hoof trimming intervention on milk yield in dairy lame cows. Published abstract in ISAPM UTKARSHA National Livestock Conference 11-13 <sup>th</sup> APRIL 2022, ISAPM National conference of LPM, Vishakapatnam   |
| 5 | Saikiran, Jettaboina and S.B.Prasanna (2022) Effect of hoof trimming intervention on locomotion in dairy lame cows. Published abstract in ISAPM UTKARSHA National Livestock Conference 11-13 <sup>th</sup> APRIL 2022, ISAPM National conference of LPM, Vishakapatnam  |

#### **DAIRY SCIENCE COLLEGE, KALABURAGI**

|   |  |
|---|--|
| 1 | Devaraju Rajanna, Heartwin A Pushpadas, F. Magdaline Eljeeva Emerald, 2021. “Uniaxial Electrospinning of Casein-Derived Peptides in food-grade pullulan”. “National Conference on: Implementing Strategies to Achieve Food Security and Food Sustainable Partnership: Progress and Challenges”. Organized by: College of food and dairy technology Koduveli, Chennai-600052. Tamilnadu veterinary and Animal sciences University Madhavaram milk colony, Chennai-600051.(date:29.07.2021- 30.07.2021) Pp225. |
| 2 | Mallinath Hemadi, (November, 2021). “Utilization of weeds for economic benefit”. Magazine: Agriculture and Industry survey. Page: 16-17, November 2021.  |
| 3 | Mallinath Hemadi, (16th-30 <sup>th</sup> December). 15 days International Training cum workshop online program. Title: “Agriculture 2.0- A next level approach towards sustainability, smart farming and agri-innovation”  |
| 4 | Kalla A.M., Manjunatha, H. and Devaraju R.(2022). Coconut shell powder reinforced epoxy composites: A review. Agricultural Reviews. 43(1): 98-103.   |

#### **COLLEGE OF FISHERIES, MANGALURU**

|   |   |
|---|---|
| 1 | Malothmohan, Varadaraju, S., Jayaraj, E.G., Ganapathi Nayak, M., Shashidhar, H. Badami and Jaya Naik, 2021. Vaanijya Jala krishiyalli Vividareethiya Vaayu Samyojakagalannu Vinyasagolisi Thayarisuvudu. Kannada VijnanaSammelana during 15-09-2021 to 17-09-2021, Mangala Gangothri, Mangaluru, 16 <sup>th</sup> Kannada VijuanaSmaranaSanchike, 96-97.  |
| 2 | Mohan Kumar, K.C., Varadaraju, S., Gajendra, Harsha Nayak, Naveen Kumar, B.T. and Divya, V., 2021. Dakshina Kannada haagu Udupi Jillegalalli Litopinus Vanaamigala Saakaanikege Sookthavaada Manuhaagu Neerina Amshagala Gunamattada Sookthathe. Kannada VijnanaSammelana during 15-09-2021 to 17-09-2021, Mangala Gangothri, Mangaluru 16 <sup>th</sup> Kannada VijuanaSmaranaSanchike, p 97-98. |

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

|   |  |
|---|--|
| 1 | Praveenjoshi H.S., A.T.Ramachandra Naik, Shivakumar M., Lakshmipathi M.T., Chandrakant Lingadhal, Annappaswamy T.S. and Padmanabha A., 2022. Physico-chemical characteristics and growth performance of Litopeneus vannamei in earthen ponds of Karnataka. Abstract in the conference “1st Indian Fisheries Out look 2022 held from during 22-24th March, 2022 at ICAR-CIFRI, Barrackpore. |
|---|--|

## ABSTRACT OF RESEARCH PUBLICATIONS

| <i>Division</i>                   | <i>Journal</i> |                 | <i>Conference/<br/>Symposium/ Seminar/<br/>Workshops</i> |                 | <i>Total</i> |
|-----------------------------------|----------------|-----------------|--|-----------------|--------------|
|                                   | <i>Int.</i>    | <i>National</i> | <i>Int.</i>  | <i>National</i> |              |
| Veterinary College, Bengaluru     | 71             | 22              | 31   | 33              | <b>157</b>   |
| Veterinary College, Bidar         | 7              | 26              | 5  | 61              | <b>99</b>    |
| Veterinary College, Shivamogga    | 11             | 18              | 16   | 21              | <b>66</b>    |
| Veterinary College, Hassan        | 8              | 26              | 8  | 33              | <b>75</b>    |
| Veterinary College, Gadag         | 6              | 12              | -  | 5               | <b>23</b>    |
| Dairy Science College, Bengaluru  | 16             | 11              | -  | -               | <b>27</b>    |
| Dairy Science College, Kalaburagi | 1              | -               | -  | 4               | <b>5</b>     |
| College of Fisheries, Mangaluru   | 13             | 11              | -  | 2               | <b>26</b>    |
| IAH&VB, Bengaluru                 | 5              | 11              | -  | -               | <b>16</b>    |
| IWVR-Kudige                       | -              | -               | -  | -               |              |
| LRIC, Hallikhed-Bidar             | -              | 1               | 1  | -               | <b>2</b>     |
| LRIC, Konehalli-Tumkur            | -              | -               | 2  | -               | <b>2</b>     |
| LRIC, Nagamangala-Mandya          | -              | -               | -  | -               |              |
| LRIC, Dornalli-Yadgir             | -              | -               | -  | -               |              |
| CRIC, Thimmapur-Bagalkot          | -              | -               | -  | -               |              |
| FRIC, Hebbal-Bengaluru            | 3              | -               | -  | -               | <b>3</b>     |
| FRIC, Hesarghatta-Bengaluru       | 2              | -               | -  | -               | <b>2</b>     |
| FRIC, Ankola-Uttara Kannada       | -              | -               | -  | 1               | <b>1</b>     |
| FRIC, Bhutnal-Vijayapura          | -              | -               | -  | -               |              |
| KVK, Dakshina Kannada-Mangaluru   | -              | -               | -  | -               |              |
| AHP, Konehalli-Tumkur             | -              | -               | -  | -               |              |
| AHP, Kunnur-Haveri                | -              | -               | 1  | -               | <b>1</b>     |
| AHP, Koravangala-Hassan           | 1              | -               | -  | -               | <b>1</b>     |
| AHP, Bargi-Chamarajanagara        | -              | -               | -  | -               |              |
| AHP, Dornahalli-Yadgir            | -              | -               | -  | -               |              |
| <b>Total</b>                      | <b>144</b>     | <b>138</b>      | <b>64</b>  | <b>160</b>      | <b>506</b>   |

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

### VETERINARY COLLEGE, BENGALURU

1. Chethan, K.P., N.K.S.Gowda, T.M. Prabhu, K.Giridhar and S.Anandan. 2021. Hydroponic green fodder production and its utilization in livestock, Folder, KVAFSU and NIANP, Bengaluru.
2. Jayanaik, H.C. Indresh and Gopinath, C.R. 2021. Modern poultry farming Central Poultry Development Organization, Hessaragatta Bangalore.
3. Leena, G., Vijay, K. and Prasant, W. 2021. Kyasanur forest disease - An emerging disease. Emerging and Re-emerging Infectious Diseases of Livestock and Poultry, KVASU, Kerala.
4. Manjunatha, L. and K. Sathyanarayan. 2021. Innovative social entrepreneurship in livestock sector. *Pashubandha – e-bulletin*, Vol. 10 (10):3-6.
5. Mohan, H.V., Wilfred Ruban, S. and Narendra Babu, R. 2022. Regulations and standards for the quality and safety of meat and meat Products. Safety and quality in meat industry – innovative approaches. Daya Publishing House, New Delhi, Pp321.
6. Nagaraja, B.N., Preetham Kumar, S. and Tarasingh Lamani. 2021. Fracture management techniques in companion animals, Veterinary College, Bengaluru. Folder
7. Nagaraja. B.N., Preetham Kumar, S. and Anil Patil, A.S. 2021. Affections of Horn in bovines, Veterinary college, Bengaluru. Folder
8. Narayana Swamy, M. 2021. ನೋವು ಮತ್ತು ಸ್ವಲ್ಪ ನರಗ್ರಾಹಕಗಳ ಸಂಶೋಧನೆಗೆ 2021ರ ವೈದ್ಯಕೀಯ ನೊಬೆಲ್ ಪ್ರಶಸ್ತಿ. *Varthabharathi*, October, 12, 2021, page 4.
9. Narayana Swamy, M. 2021. ಡಾ. ಅಂಬೇಡ್ಕರ್, ಕಾರ್ಮಿಕ ಅರ್ಥಶಾಸ್ತ್ರ ಮತ್ತು ನೊಬೆಲ್ ಪ್ರಶಸ್ತಿ – 2021. *Varthabharathi*, October, 21, 2021, page 4.
10. Navyashree, Mahadevappa Gouri and Suma, N. 2022. Heat stress in sheep and goats and its management in tropical regions, *Pashubandha*, 11 (02): 52 – 54.
11. Raghavendra S. V, Mahadevappa D. Gouri and Basavraj Inamdar. 2022. Identification and management of diseases in small ruminant farm, *Pashubandha*, 11 (03): 04-06.
12. Ramesh H.S., Sampath kumar B, Divya V, Nandi S and Girish Kumar V. 2021. Effect of amphiregulin on sheep cumulus oocyte complexes expansion in vitro. Recent advances in agricultural engineering and biotechnology for food security. Mahima Research Foundation and Social Welfare, pp.30.
13. Ramesh, H.S., Nandi and V. Girish Kumar. 2022. Effect of corpus luteum, individual or group culture, coconut water, cumulus cells, granulosa cells, ovarian mesenchymal cells and oviductal epithelial cells on recovery rate and development of preantral follicles. Recent advances in agricultural science and technology for sustainable India - Part II, Mahima Research Foundation and social welfare, page 90-95.
14. Ramesh, H.S., Sampath Kumar, Ragavendra Srikanth, P.T.Ramesh, S.Nandi and V.Girish Kumar. 2021. Effect of amphiregulin, neregulin-I, tumour necrosis factor-A, Bone morphogenetic protein 15 and intermedin/adrenomedullin 2 on development of preantral follicles and oocytes. recent advances in agricultural engineering and biotechnology for food security. Mahima Research Foundation and Social Welfare, page 45-54.
15. Sramika, Padmanandha, Mahadevappa, D. Gouri, K. Sathyanarayan and Manjunatha, L. 2022. Significance of goat milk in human health. *Pashubandha – e-bulletin*, 11 (3): 11-13.
16. Swati C., Mahadevappa D. Gouri and Basavraj Inamdar, 2022, Breeding management in sheep and goats, *Pashubandha*, 11 (03): 06-08.

| <i>DEPT</i> | <i>Type of Publication</i>                               | <i>Title</i>   | <i>Authored by</i>  | <i>Month &amp; Year of publication</i> |
|-------------|--|--|---|--|
| VPT         | Training chapter   | Poisoning in animals and its prevention  | Prashantkumar Waghe,<br>Vijaykumar M,<br>Krishnamurthy C M, Adeepa J,<br>Ravindra BD, .<br>Mahbub Ali and<br>Nagraj | January<br>2021                        |
| LPM         | E-News letter.<br>3(7):65-67                             | Feeding Management in Poultry, Agriculture and Food  | M A Baseer,<br>Vidyasagar, Satish<br>Chandra Biradar.   | 2021                                   |
| LPM         | Agriculture and Food;<br>E-News letter.3 (12)<br>262-264 | Current Scenario and Opportunities in Poultry Meat Sectors - India.  | Deepika Jamadar,<br>Vidyasagar  | 2021                                   |
| VMC         | Leading manual   | a. Unit-I- Laboratory Manual of General & Systemic Bacteriology<br>b. Unit-II- Laboratory Manual of General Mycology<br>c. Unit-III- Laboratory Manual of Microbial Biotechnology<br>d. Unit-IV- Laboratory Manual of Immunology And Serology<br>e. Unit-V- Laboratory Manual of General & Systemic Virology | Basavaraj Awati and Dr. Mallinath.K.C.  |  |
| VPP         | Pashudhan praharee issue                                 | Bacillary white diarrhea (BWD or pullorum disease in a poultry flock   | Naik, D.T.,<br>Rajendra kumar T. and Jyothi, C. and Vidya sagar   | September<br>2021                      |
| VPP         | Pashudhan praharee issue oct, 11.                        | Oesophageal obstruction or choke due to accidental ingestion of a sweet corn head in a Deoni cow-a case report   | Naik, D.T.,<br>Rajendra kumar T. and Jyothi C and Vivek Kasarallikar  | October<br>2021                        |
| AGB         | Pashubandha  | Newly Registered Mudhol Hound Dog Breed of Karnataka,  | Shrikant Dodamani,<br>Karuthadurai, T. Vidyasagar,<br>Suranagi, M.D Meenakshi Balure and Pallavi Bhatambre          | November<br>2021                       |

|     |  |  |  |               |
|-----|--|--|--|---------------|
| AGB | Pashubandha News   | Newly Registered Dharwadi Buffalo Breed of Karnataka.  | Shrikant Dodamani, Karuthadurai, T., Vidyasagar, Suranagi, M. D., Gurunath Pasare & Dharamappa Rathod, | November 2021 |
| VPP | Pashudhan praharee issue                                   | Chronic nodular enteritis and suppurative pericarditis in a goat – a rare case   | Naik, D.T., Rajendra kumar T. and Jyothi C; 2021,  | December 2021 |
| VPP | Pashudhan praharee issue Dec,10                            | Haemorrhagic abomsitis and septicemia in a goat – a case study– a rare case  | Naik, D.T., Rajendra kumar T. and Jyothi C   | December 2021 |
| VPP | Pashudhan praharee issue                                   | Large intestinal coccidiosis without involvement of caeca-casee report   | Naik, D.T. , Rajendra kumar T. and Jyothi C;   | December 2021 |
| VPP | Pashudhan praharee issue issue                             | Mechanical intestinal obstruction in a calf- a short note,   | Naik, D.T., Rajendra kumar T. and Jyothi C;  | December 2021 |
| VCC | Popular article (E-pashupalan, issue 4, vol.2              | An overview about World Veterinary day celebration   | Vivek R. Kasaralika, Ravindra, B.G., Halmandge, S.C,   | April 2021    |
| LPT | Jan 18-25 2022. 76-80                                      | Application of proteomics in muscle food quality, safety and authenticity research. Training manual on Advanced preservation techniques and analytical tools for quality assurance and safety of muscle foods      | Naveena BM, Rituparna B and Kiran M.   | January 2022  |
| LFC | Training Manual, Veterinary College Bidar: Page No. 28-41. | Green Fodder Production and Conservation. Improved Dairy Farming   | Mithare Prasad, Prashant Waghmare, Vidyasagar and Ravindra Dombar                                      | January 2022  |
| LPT | Jan 18-25 2022.81-85                                       | In gel and gel free protein fractionation techniques for muscle food quality and safety. Training manual on Advanced preservation techniques and analytical tools for quality assurance and safety of muscle foods | Kiran M, Rituparna B and Dr. Naveena BM  | January 2022  |
| LPT | Jan 18-25 2022.143-162                                     | Protocol for meat protein extraction, purification and separation using SDS PAGE and 2DE. Training manual on Advanced preservation techniques  | Naveena BM, Rituparna B, Kiran M and Sowmya D 2022   | January 2022  |



|     |                        |  |  |               |
|-----|------------------------|--|--|---------------|
|     |                        | and analytical tools for quality assurance and safety of muscle foods.   |  |               |
| LPT | Jan 18-25 2022.163-166 | Protocol for GELFree fractionation of muscle proteins. Training manual on Advanced preservation techniques and analytical tools for quality assurance and safety of muscle foods | Rituparna B, Naveena B.M, Sowmya D and Kiran M.                          | January 2022  |
| VPT | Training chapter       | Poisoning ,its diagnosis and first aid in animals  | Prashantkumar Waghe and Vijaykumar M                                     | February 2021 |
| ANN | Training chapter       | Balanced feed feeding in dairy animals   | Ramchandra B Ravindra B. D Adeppa. J Krishnamurthy. C. M.                | January 2022  |
| VGO | Training Manual        | Entrepreneurship/ Skill development through goat farming   | Dilipkumar, D., Bijurkar R. G., Suranagi, M.D., Bhagvantappa, Vidyasagar | February 2022 |
| VGO | Training Manual        | Entrepreneurship/ Skill development through poultry farming  | Dilipkumar D., Bijurkar R. G., Suranagi, M.D. Bhagvantappa, Vidyasagar   | February 2022 |
| ANN | Training chapter       | Scientific feeding of sheep  | Ravindra B. D Ramchandra B Adeppa. J Krishnamurthy. C. M. Shrikanth. D   | February 2022 |
| ANN | Training chapter       | Scientific feeding practices   | Ravindra B. D Ramchandra B   | February 2022 |
| ANN | Training chapter       | Scientific feeding for improved milk production  | Ravindra B. D Ramchandra B   | March 2022    |
| ANN | Training chapter       | Scientific feeding and management in Sheep   | Ravindra B. D Ramchandra B   | March 2022    |
| ANN | Training chapter       | Balanced feed feeding in Poultry   | Ravindra B. D Ramchandra B Prashanth Waghe                               | March 2022    |
| VPA | Training chapter       | Parasitic diseases in dairy Animals and their control  | Krishnamurthy CM Adeppa J Dombar Vidyasagar                              | January 2022  |
| VPA | Training chapter       | Worms in sheep and its management  | Adeppa J Krishnamurthy CM Dombar Shrikant Dodamani                       | March 2022    |

|      |                         |  |   |               |
|------|-------------------------|--|---|---------------|
| VPA  | <i>Training chapter</i> | Parasites in poultry and their control | Adeppa J<br>Krishnamurthy CM<br>Dhanalaxmi<br>Ravindra Dombar | March<br>2022 |
| VPHE | Training Manual         | Clean milk production                  | Arun Kharate  | March<br>2022 |

## VETERINARY COLLEGE, SHIVAMOGGA

Books: Hand Book on “ Scientific Sheep and Goat Rearing- Information”

Popular Articles:

- a) Project Report and Economics of Sheep Rearing
- b) Expenditure and Income analysis of a Sheep and Goat Unit.
- c) Importance & Methods of Sheep and Goat Rearing.
- d) Economics and Record keeping in Sheep and Goat Rearing.

### Folders:

‘Kyananoor Forest Disease ’ by, B. Kavitha Rani , S. S. Manjunatha, and G. M. Jayaramu  
‘Diseases of Sheep’ by S. S. Manjunatha, B. Kavitha Rani and G. M. Jayaramu  
Nagabhushan, V., Umesh B U, Jayashree R, Ravindra B G, Satheesha g M, Venkatesha M M, Bharatbhushan..M (2021). Livestock products, feed ingredients, Lab analysis facilities and diagnostic facilities available at Veterinary College Shivamogga. Publisher: Dean, VC, Shivamogga.  
‘Karnatakada Go Taligala Mahatva Haagu Avugala Sanvrakshane”, Dr. R. Jayashree, Dr. Rudresh, B.H. and Dr. Satheesha, G.M.  
Malnad gidda cattle breed under sustenance production, R. Jayashree., Rudresh, B, H. and Dr. Sateesha, G.M  
About Malnad Gidda breed of cattle in Tamil Magazine, “Pasumai Vikatan” January 2022 Pongal Special Issue.  
Breeding soundness evaluation (BsE) by physical observation of bulls, Pashubandha e bulletin, September 2021vol 10 issue 10, 1-3.

You Tube links Uploaded during the year 2021 -22

1. Milking Methods in Malnad Gidda Farm- <https://youtu.be/GHuRYalkOMg>
2. Malna Gidda Animal Left for Grazing - <https://youtu.be/D6GarMpSV4M>
3. Organic fodder production in MGRIC - <https://youtu.be/QLXV9fbQj10>
4. Natural Methods of Manure production - [https://youtu.be/arUFi7qw\\_Zo](https://youtu.be/arUFi7qw_Zo)
5. Malnadgidda Part II- [https://youtu.be/arUFi7qw\\_Zo](https://youtu.be/arUFi7qw_Zo)
6. Maland Gidda Part I - <https://youtu.be/6C3MXcCwwrs>
7. About Online training programme - <https://youtu.be/JwOtZjWBZjY>
8. Distribution of MalnadGidda and its speciality- <https://youtu.be/qoyW0CSXP9U>
9. Panner making - <https://youtu.be/-TFG2rZVrxA>
10. Value addition of milk from native breed - <https://youtu.be/ZVZ1xcvLzqo>

## VETERINARY COLLEGE, HASSAN

### Popular articles:

Girish, B.C., Ravindra, G.B., Ravikumar, and Nagappa K. Prevalence of Lumpy skin disease in India. Negilamiditha, Jan-March 2022, pp 12-13 and 27.

### Training Manual:

1. Sobha Rani M, Sheela P, Sundareshan S, Arun S J., compiled the training Manual on “Diagnostic Microbiology”, March, 2022.
2. Jagadeeswary V & M.G Sindhu, 2022, VAHEE &EEC, HVC compiled the Training manual on “Scientific Pig Rearing” Jan, 2022.
3. Jagadeeswary V & M.G Sindhu, 2022, VAHEE &EEC, HVC compiled the Training manual on “Scientific Poultry Rearing”, Feb, 2022.
4. Ravi kumar B P 2022, Recent Diagnostic techniques in Livestock Diseases: Training manual for field veterinarians of Hassan district, compiled by Department of Veterinary Gynaecology and Obstetrics and Other clinical departments, Veterinary College, Hassan. 18<sup>th</sup> March 2022, P No. 01- 70.
5. Ravi kumar B P 2021, compiled Training manual “First aid and scientific management of animal diseases and infertility” for Farmers, Organized by Department of Veterinary Gynaecology and Obstetrics and Other clinical departments, Veterinary College, Hassan. 16-17<sup>th</sup> December 2021.

### Folders:

1. Sheela, P, Ravikumar P and Nagappa Karibasavanavar, March 2022. Folder to create awareness about Rabies.
2. Jaishankar N, Folder on “Native poultry production”
3. Nagappa Karibasavanavar, Girish, B.C., Veena, M., Satheesha, S.P., Sripad, K., Jagadeeshwari, V., Sheela, P., Manjushree, T.R. 2022. Folder on “Prevention of tick infestation in animals by the use of indigenous medicines”.
4. Shivakumar V, Raveendra Hegde, Nagappa Karibasavanavar, Girish B.C., Satheesha S.P., Chandrashekara N. and Manjunatha L. 2020. African swine fever
5. Sindhu M.G, V.Jagadeeswary, G.S. Naveen Kumar and N. Jayshankar, HVC compiled a Folder on “Scientific Egg Production” Feb, 2022.
6. Sindhu M. G., V.Jagadeeswary, G.S. Naveen Kumar and N. Jayshankar, HVC compiled a Folder on “Scientific Broiler Production” Feb, 2022.
7. K. P. Chethan, N.K.S. Gowda, and T. M. Prabhu, 2021. Hydroponic fodder production and utilization in livestock.

### Book Chapter:

Sobha Rani M, T G Prabhakar and B Samuel Masilmoni Ronald. Published a chapter in e - book titled “Innovations in Microbiology and Biotechnology, Vol.5. Chapter title: “Assesment of molecular characterisation of *Mycobacterium avium sub sp. paratuberculosis* isolates. Page.No. 14-25, published by B.P. International.

### BOOK:

Desai B.A., Girish Patil and Nagappa Karibasavanavar. Meat business and meat processing (in Kannada) ‘Maansodhyama mattu maansada sanskarane’ Published by Smt. Savita B. Desai, Hubballi, Karnataka, 2021.

## Display Boards

VMC, HVC prepared three display boards each on zoonotic bacterial, zoonotic viral diseases and antimicrobial resistance respectively.

### VETERINARY COLLEGE, GADAG

| <i>Sl. No.</i>          | <i>Title</i>   | <i>Authors</i>  | <i>Publication / Publishers</i>  |
|-------------------------|--|---|--|
| <b>E-Book</b>           |  |   |  |
| 1                       | Good Animal Husbandry and Veterinary Practices for Doubling of Farmers' Income | Dr. R. Nagaraja, Dr. Shahaji Phand and Dr. Shivakumar K. Radder.                    | MANAGE, Hyderabad - 2021.  |
| <b>Popular Articles</b> |  |   |  |
| 1                       | Feeding management of animals during summer and draught                        | M.S. Rudraswamy and Srikanth Kalburgi,  | January 2022. Pashubandha, Volume No: 11 Issue: 01, Veterinary College, Hebbal       |
| 2                       | Milk products preparation methods and their importance                         | M.S. Rudraswamy and Srikanth Kalburgi,  | January 2022., Krishi Kamadhenu, pp 39-42  |
| 3                       | Canine Demodicosis.  | Dr. Prem Kumar R, Dr. Sunitha R and Dr. Rajanna R.                                  | Pashubandha. 30th October 2021. Volume No: 10. Issue: 10. Veterinary College, Hebbal |
| 4                       | Echinococcosis: A Disease of Public Health Significance.                       | Dr. Sunitha R, Dr. Nandini A, Dr. Prem Kumar R and Dr. Rajanna R.                   | Pashubanda 31st January 2022. Volume No: 11 Issue: 01. Veterinary College, Hebbal    |
| 5                       | Importance of Farm field School in Pig farming                                 | Dr. Rashmi L and Dr. Girish B C.  | Pashubanda 2021, Veterinary College, Hebbal  |
| <b>Training manual</b>  |  |   |  |
| 1                       | Scientific poultry farming   | Dr. R. Nagaraja, Dr. Prasanna S.B., Dr. Dharmaraj G.Y. and Dr. Shivakumar K. Radder | Veterinary College, Gadag  |
| 2                       | Scientific sheep and goat farming  | Dr. R. Nagaraja, Dr. Shivakumar K. Radder and Dr. Prasanna S.B.                     | Veterinary College, Gadag  |
| <b>Folder:</b>          |  |   |  |
| 1                       | Rabies and its prevention  | Dr Rashmi L, Dr. Dhanalakshmi S, Dr. Vijayalakshmi                                  | Veterinary College, Gadag  |

BOOKS CHAPTER

1. Basavarajaiah DM, Narasimhamurthy B Mathematical Modeling Approach to COVID-19: Vetted Real Data COVID Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press, UK 2022;1: 1-74 doi: 10.1201/9781003204794*
2. Basavarajaiah DM, Narasimhamurthy B Time Series Stochastic Projection Models for the Estimation of COVID Trend Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 79-98 doi: 10.1201/9781003204794*
3. Basavarajaiah DM, Narasimhamurthy B Study of Anxiety and Fear of COVID-19 Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press, UK 2022;1: 101-114 doi: 10.1201/9781003204794*
4. Basavarajaiah DM, Narasimhamurthy COVID-19 Gene Sequencing Modeling Transmission Modeling-An Insight into Infectious Diseases Mechanism B *Taylor & Francis Group CRC Press,UK 2022;1: 117-158 doi: 10.1201/9781003204794*
5. Basavarajaiah DM, Narasimhamurthy B. Real-Time PCR (RT-PCR) for COVID-19 Diagnosis and Changes in Threshold Cycle ( $C_t$ ) in Association with Different Parameters Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 163-173 doi: 10.1201/9781003204794*
6. Basavarajaiah DM, Narasimhamurthy B. COVID-19 Vaccination Modeling Approach to Public Health Policy Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 175-215 doi: 10.1201/9781003204794*
7. Basavarajaiah DM, Narasimhamurthy B. Trend of COVID-19 Surge Projection Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press, UK 2022;1: 2174-235 doi: 10.1201/9781003204794*
8. Basavarajaiah DM, Narasimhamurthy B. Risk Analysis of COVID-19—Vetted by Real Data Sets. Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 237-250 doi: 10.1201/9781003204794*
9. Basavarajaiah DM, Narasimhamurthy B. Data-Driven Decision Support Model for COVID-19 Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 253-271 doi: 10.1201/9781003204794*
10. Basavarajaiah DM, Narasimhamurthy B.Age-Specific SARS-Cov-19 Incidence Modeling Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 275-295 doi: 10.1201/9781003204794*
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12. Basavarajaiah DM, Narasimhamurthy B. Statistical Ethics for Computational Biology and Medical Science Transmission Modeling-An Insight into Infectious Diseases Mechanism *Taylor & Francis Group CRC Press,UK 2022;1: 335-352 doi: 10.1201/9781003204794*
13. Ramesh HS, Sampath Kumar B, Manasa V, Basavarajaiah DM, Tripathi SK, Nandi S , Girish Kumar V.Role of Different Factors and Additives in Developing a culture System for Preantral Follicles.*Mahima Research Foundation and Social Welfare 2021 ; 1: 305-307*

## COLLEGE OF FISHERIES, MANGALURU

1. Senthil Vel A., Ganapathi Naik, M, Abhiman, Rakesh K, Princy C P and Monica K S (2021). Fish Galaxy (Hand Book). Director of Extension, KVAFSU, Bidar.
2. Rajesh D. P., H. N. Anjanayappa, 2021, Sea Grass, *Aqua International* pp. 51-52
3. Rajesh D. P., H. N. Anjanayappa, 2022, Coral Reef, *Aqua International* pp 38-46
4. Vinay T. N., Myung-Hwa Jung, Prasanna Kumar Patil, Akshaya Panigrahi, and Girisha S Kallappa, 2021. Vaccines to Prevent Diseases in Aquaculture. Eds: S. K. Gupta and S. S. Giri: Biotechnological Advances in Aquaculture Health Management, pp 313-323.
5. Suyani Nitin Kanji, Mridula Rajesh, K. M. Rajesh and Monty Meshram Madan, 2021. Threatened, Endangered and Vulnerable Aquatic Organisms with Special Reference to Elasmobranchs. *Aqua International*, 28 (10): 58-63.
6. Mridula Rajesh, 2021. ಮೀನುಗಾರಿಕೆ ಮತ್ತು ಮೊಗವೀರ ಸಂಸ್ಕೃತಿ. In: Vachana ChaluvaimattuAmbigaraChowdayya. Collection of Special Lecture Articles on AmbigaraChowdayya. A thinker and social reformer of 12th Century. Edited by Dr. Nagappa Gowda and YathishKudupu, pp 81 -94.
7. Suyani Nitin Kanji, Mridula Rajesh, Malathi Shekar and K. M. Rajesh, 2021. Mangrove floristics- current status in India. *NESA Newsletter*, 24 (2): 10-13

## INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU

### Training manual:

| # | Name of the scientist                | Title of Manual  |
|---|--------------------------------------|--|
| 1 | Dr Ganesh Hegde<br>RRO ADDL&IC Sirsi | 20.11.2021- 'Hasugalige Hasirumaddu' - A display calendar for farmers printed under ATMA, Sirsi on ethnoveterinary practices-released on the occasion of farmers' training.  |
| 2 | Dr Shesha Rao                        | Practical Manual for Dairy Science 1 <sup>st</sup> year Student Mahagoan Cross Kalaburagi for Course Milk production Management and Dairy Développement (DB-111, 2+1)  |
| 3 | Dr Shesha Rao                        | Training Manual on Exotic and zoonotic diseases compiled by Deputy Director Training Centre Kalaburagi for paraveterinarians   |
| 4 | SRDDL Scientists                     | Diagnosis of sexually transmitted disease, Tuberculosis and Johnes disease   |
| 5 | Dr. Sumathi, B. R.                   | Strains of Bacteriodes fragilis, as Potential Probiotics "Microbes beyond Lactic acid Bacteria as Emerging Probiotics" published in compendium of National Conference on "Microbes beyond Lactic acid Bacteria as Emerging Probiotics" |

### Popular Articles

| # | Name of the scientist                | Title of paper                 | Journal   |
|---|--------------------------------------|--------------------------------|---|
| 1 | Dr Ganesh RRO, Sirsi                 | ಕಂದುರೋಗ magazine               | ಲೋಕದ್ವನಿ district level daily newspaper, 6.9.21 |
| 2 | Dr Ganesh Hegde<br>RRO ADDL&IC Sirsi | ಇದು ಮೆಲುಕು ಹಾಕಬೇಕಾದ ವಿಷಯ       | ಫೆಬ್ರವರಿ 2022 - ಸೂತ್ರ (ಗಣಿತ-ವಿಜ್ಞಾನ ಮಾಸಿಕ)      |
| 3 | Dr Ganesh Hegde<br>RRO ADDL&IC Sirsi | ಮರಳುಗಾಡಿನ ನಡೆದಾಡುವ ಹಡಗು - ಒಂಟೆ | March 2022- ಸೂತ್ರ (ಗಣಿತ-ವಿಜ್ಞಾನ ಮಾಸಿಕ)          |
| 4 | Dr Ganesh Hegde<br>RRO ADDL&IC Sirsi | ಕಂದುರೋಗ                        | 6.9.21- ಲೋಕದ್ವನಿ district level daily newspaper |

## INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU

Leaflet on “Advisory for tackling Wild Animal menace”

### LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED

| # | Type of Publication | Editors/ Authors                                  | Title   | Publishers                                  | Year        |
|---|---------------------|---|---|---|-------------|
| 1 | Newspaper Article   | Vijaykumar N and Prakashkumar Rathod              | Super Napier Green fodder for improving milk yield in dairy farming | Vijay Karnataka Daily Newspaper             | Nov, 2021   |
| 2 | Popular Article     | Vijaykumar N and Prakashkumar Rathod              | Super Napier Green fodder for improving milk yield in dairy farming | Krishibimb, Monthly Magazine, 19(10):55-57. | Nov, 2021   |
| 3 | Booklet (Kannada)   | Prakashkumar Rathod, and Anant Rao Desai          | Scientific Dairy Farming  | PI, ICAR-SCSP Project, LRIC (Deoni), Bidar  | 2021        |
| 4 | Booklet (English)   | Prakashkumar Rathod, Vivek Patil and Vijaykumar N | Deoni- Dual Purpose Indigenous Breed                                | PI, ICAR-SCSP Project, LRIC (Deoni), Bidar  | 2021        |
| 5 | Booklet (Kannada)   | Prakashkumar Rathod, Vivek Patil and Vijaykumar N | Deoni- Dual Purpose Indigenous Breed                                | PI, ICAR-SCSP Project, LRIC (Deoni), Bidar  | 2021        |
| 6 | Popular Article     | Vijaykumar N and Prakashkumar Rathod              | Australian Red Napier-Green fodder for dairy farming                | Krishibimb, Monthly Magazine, 20 (01): 41   | March, 2022 |

### LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI

1. H. Shenoy (2022) Green fodders for dairy farming – *Kannada folder*

### LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA

| # | Name of the Scientist   | Title  | Year and date of Publication | Publisher/ Remarks |
|---|---|--|------------------------------|--------------------|
| 1 | Dr. H. K. Siddalingamurthy, Professor and Head<br>Dr. Sathisha, K. B., Asst Professor | A brief information about Mandya sheep rearing | 2021-22                      | -                  |
| 2 | Dr. H. K. Siddalingamurthy, Professor and Head<br>Dr. Sathisha, K. B., Asst Professor | Profitable sheep farming                       | 2021-22                      | -                  |

### CANINE RESEARCH AND INFORMATION CENTER, THIMMAPUR, BAGALKOT

|   |                     |                                  |               |  |
|---|---------------------|----------------------------------|---------------|--|
| 1 | Dr. Mahesh S Akashi | Handbook on Mudhol Hound rearing | December 2021 | Published by the CRIC Timmapur, Mudhol |
|---|---------------------|----------------------------------|---------------|--|

## FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL

| #                        | Year | Authors  | Title of the Book  | Name of the Publishers   |
|--------------------------|------|--|--|--|
| <b>Books</b>             |      |  |  |  |
| 1                        | 2021 | Dr Shivakumar M<br>Dr K B Rajanna<br>Dr Sruthisree C   | SoP for Aquaculture  | KVAFSU, Bidar  |
| 2                        | 2021 | Dr.Shivakumar.M<br>Dr.Rajanna.K.B<br>Dr. Manjappa. N<br>Dr. Harsha Nayak<br>Dr.Shruthisree. C            | Hand book -Advanced<br>Aquaculture Technologies                              | KVAFSU, Bidar  |
| 3                        | 2021 | Dr.Shivakumar.M<br>Dr.Rajanna.K.B<br>Dr.Shruthisree C  | Farmers Visit Book   | KVAFSU, Bidar  |
| <b>Laboratory Manual</b> |      |  |  |  |
| 1                        | 2020 | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Dr.Harsha Nayak<br>Mr.Adarsh.K<br>Ms.Poojitha.M  | Laboratory manual on<br>Nutrients analysis of feed and<br>food products      | Fisheries Research and<br>Information center,<br>Hebbal, Bengaluru |
| 2                        | 2020 | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Dr.Harsha Nayak<br>Mr.Adarsh.K<br>Ms.Poojitha.M  | Laboratory manual on Water<br>& Waste Water Analysis                         | Fisheries Research and<br>Information center,<br>Hebbal, Bengaluru |
| 3                        | 2020 | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Dr.Harsha Nayak<br>Mr.Adarsh.K<br>Ms.Poojitha.M  | Laboratory manual on<br>analysis of soil and sediment<br>quality             | Fisheries Research and<br>Information center,<br>Hebbal, Bengaluru |
| 4                        | 2020 | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Dr.Harsha Nayak<br>Mr.Adarsh.K<br>Ms.Poojitha. M | Laboratory manual on<br>Analysis of heavy metal and<br>biological components | Fisheries Research and<br>Information center,<br>Hebbal, Bengaluru |



### Leaflets/ Bulletins/Folders

| # | Type of publication | Month & Year | Authors   | Title of the Publication  |
|---|---------------------|--------------|---|---|
| 1 | Leaf lets           | 2021         | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Mr. Adarsha K   | Fish farming in agricultural pond   |
| 2 | Leaf lets           | 2021         | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Dr.Harsha Nayak | Fish rearing in pond and lakes  |
| 3 | Leaf lets           | 2021         | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Mr. Adarsha K   | Fish production, rearing and management                                     |
| 4 | Leaf lets           | 2021         | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C<br>Mr. Adarsha K   | Integrated fish farming   |
| 5 | Leaf lets           | 2021         | Dr.Shivakumar M<br>Dr.K.B.Rajanna<br>Dr.Sruthisree.C                    | Chemical characterstics of soil and water ,their importance in fish farming |

### FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

| #                       | Year           | Authors                 | Title of the Book   | Name of the Publishers       |
|-------------------------|----------------|-------------------------|---|------------------------------|
| <b>Popular Articles</b> |                |                         |   |                              |
| 1                       | Jan.-Feb. 2022 | Dr. Ravindragouda Patil | Improved fish culture technologies                          | <i>Krishi Bimba</i> 26–29    |
| 2                       | Feb. 2022      | Dr. Ravindragouda Patil | Improved fish culture with Agricutlure and Animal Husbandry | <i>Raitapi Jagattu</i> 28–29 |
| 3                       | March 2022     | Dr. Ravindragouda Patil | Fisher lings production by using indused method of breeding | <i>Krishi Bimba</i>          |

### FISHERIES RESEARCH AND INFORMATION CENTER, BHUTHNAL

| # | Type of Publication | Year of the Publication | Authors   | Title of Paper                             |
|---|---------------------|-------------------------|---|--|
| 1 | Leaflets            | 2021-22                 | Dr. Vijayakumar S<br>Dr Vijay S. Atnur                          | Soil and water Quality Management          |
| 2 | Leaflets            | 2021-22                 | Dr. Vijayakumar S<br>Dr Vijay S. Atnur                          | Artificial and Natural Feed Management     |
| 3 | Books               | 2021-22                 | Dr. Vijayakumar S<br>Dr Vijay S. Atnur<br>Shri. Ganeshprasad. L | Modern fish farming                        |
| 4 | Books               | 2021-22                 | Dr. Vijay S Atnur<br>Dr. Vijayakumar.S                          | “An Overview of Fisheries and Aquaculture” |

|   |       |                             |  |                                |
|---|-------|-----------------------------|--|--------------------------------|
| 5 | Books | 2021-22                     | Dr. Vijayakumar.S<br>Dr. Vijay S Atnur<br>Dr. Jaya Naik        | Bioflak and other fish farming |
| 6 | Books | 2021-22coastal<br>karnataka | Shri.Ganesh Prasad L<br>Dr. Vijayakumar.S<br>Dr. Vijay S Atnur | Coastal karnataka              |

### KRISHI VIGYAN KENDRA - DAKSHINA KANNADA, MANGALURU

|                  | <i>Title of the leaflets</i>  | <i>Authors</i>   | <i>No. of copies</i> |
|------------------|---|--|----------------------|
| Books            | -   | -  | -                    |
| Training manuals | -   | -  | -                    |
| Popular articles | A farmer who found happiness in agriculture using machinery- Shri. Ramanatha- Vol.No. 7 | Naveen Kumar, B. T., T. J. Ramesha, Mallikarjuna, L., Chethan, N. and Kedarnath      | -                    |
| leaflets         | Package of practice to improve paddy yield  | Naveen Kumar B.T., T.J. Ramesh, Mallikarjuna L., Chethan N., Kedarnath and Rashmi R. | 48                   |
|                  | Flood resistant red rice variety-Sahyadri Panchamukhi                                   | Naveen Kumar B.T., T.J. Ramesh, Mallikarjuna L., Chethan N., Kedarnath and Rashmi R. | 70                   |
|                  | Vermicompost preparation thorough farm waste by using compost culture                   | Naveen Kumar B.T.,   | 16                   |
|                  | POP on Paddy  | Naveen Kumar B.T.,   | 36                   |
|                  | Management of African snail   | Dr. Kedarnath, Dr. T.J. Ramesha  | 100                  |
|                  | Integrated leaf spot management in arecanut   | Dr. Kedarnath, Dr. T.J. Ramesha  | 60                   |
|                  | ICM in Coconut  | Dr. Kedarnath and Dr. Mallikarjun L.   | 152                  |
|                  | Integrated Crop management and value addition in coconut                                | Dr. Kedarnath, Dr. T.J. Ramesha  | 60                   |
|                  | Fish and prawn chutney preparation  | Dr. Chethan N., Dr. Ramesha T J  | 100                  |

### ANIMAL HYSBANDRY POLYTECHNIC, KUNNUR-HAVERI

1. Clean milk production
2. Common diseases of sheep

## V. FINANCE AND BUDGET

| RECEIPTS |   |                 | EXPENDITURE |  |                 |
|----------|---|-----------------|-------------|--|-----------------|
| Sl. No   | Particulars                                     | Amount in lakhs | Sl. No      | Particulars  | Amount in lakhs |
| <b>A</b> | <b>GENERAL FUNDS</b>                            |                 | <b>A</b>    | <b>GENERAL FUNDS</b>   |                 |
| <b>1</b> | <b>Grants from Govt. of Karnataka</b>           |                 | <b>1</b>    | <b>Grants from Government of Karnataka</b>   |                 |
| a        | Daily Wages                                     | 131.00          | a           | Daily Wages  | 138.77          |
| b        | Grant-in-Aid-Salary (KVAFSU)                    | 7501.08         | b           | Grant-in-Aid Salaries (KVAFSU)   | 7070.37         |
|          | Grant-in-Aid-Salary (IAH&VB)                    | 1400.41         |             | Grant-in-Aid Salaries (IAH&VB)   | 1369.26         |
| c        | Grant-in-Aid- General (KVAFSU)                  | 304.00          | c           | Grant-in-Air General (KVAFSU)  | 2365.11         |
| d        | Grant in Aid Contract/Outsource (KVAFSU)        | 1491.00         | d           | Grant in Aid Contract/Outsource (KVAFSU)   | 2232.88         |
|          | Grant in Aid Contract/Outsource (IAH&VB)        | 80.00           |             | Grant in Aid Contract/Outsource (IAH&VB)   | 130.18          |
| e        | Grant-in-Aid-Pensions (KVAFSU)                  | 2681.00         | e           | Grant-in-Aid-Pensions (KVAFSU)   | 3273.55         |
|          | Grant-in-Aid-Pensions (IAH&VB)                  | 322.37          |             | Grant-in-Aid-Pensions (IAH&VB)   | 322.37          |
|          | <b>Sub Total - 1</b>                            | <b>13910.86</b> |             | <b>Sub Total - 1</b>   | <b>16902.49</b> |
| <b>2</b> | <b>Internal Resources</b>                       |                 | <b>2</b>    | <b>Internal Resources</b>  |                 |
| a        | Income from Fees                                | 950.55          |             |  | 0.00            |
| b        | Income from University Property                 | 213.63          |             | Excess expenditure over and above the Grants from Government of Karnataka are met out of Internal Resources of the University in accordance with University Act No. 40(1)(b) |                 |
| c        | Income from Colleges                            | 37.82           |             |  |                 |
| d        | Income from Research Stations                   | 42.06           |             |  |                 |
| e        | Income from Extension                           | 0.17            |             |  |                 |
| f        | Receipts from ICAR Projects (37.50%)            | 23.03           |             |  |                 |
| g        | Other Misc. Income                              | 2498.44         |             |  |                 |
|          | <b>Sub Total - 2</b>                            | <b>3765.70</b>  |             | <b>Sub Total - 2</b>   | <b>0.00</b>     |
| <b>3</b> | <b>SCSP / TSP Grants</b>                        |                 | <b>3</b>    | <b>SCSP / TSP Grants (Plan)</b>  |                 |
|          |   |                 | aa          | Refund from IWVR, Kudige   | 248.50          |
| a        | Scheduled Caste Sub-Plan                        | 130.00          | a           | Scheduled Caste Sub-Plan   | 80.30           |
| b        | Tribal Sub-Plan                                 | 66.00           | b           | Tribal Sub-Plan  | 37.75           |
|          | <b>Sub Total - 3</b>                            | <b>196.00</b>   |             | <b>Sub Total - 3</b>   | <b>366.55</b>   |
| <b>4</b> | <b>Capital Grants</b>                           |                 | <b>4</b>    | <b>Capital Expenditure</b>   |                 |
| a        | Education, Extension & Research                 | 5337.00         | a           | Education, Extension & Research  | 4968.52         |
| b        | Grants for Equipments (IAH&VB)                  | 2000.00         | b           | Grants for Equipments (IAH&VB)   | 1832.40         |
|          | <b>Sub Total - 4</b>                            | <b>7337.00</b>  |             | <b>Sub Total - 4</b>   | <b>6800.92</b>  |
| <b>5</b> | <b>State Adhoc Projects</b>                     |                 | <b>5</b>    | <b>State Adhoc Projects</b>  |                 |
| a        | Adhoc Project                                   | 246.00          | a           | Adhoc Project  | 192.72          |
| b        | RKVY Projects                                   | 141.60          | b           | RKVY Projects  | 887.65          |
| c        | SUJALA-III Projects                             | 13.50           | c           | SUJALA-III Projects  | 10.36           |
|          | <b>Sub Total - 5</b>                            | <b>401.10</b>   |             | <b>Sub Total - 5</b>   | <b>1090.73</b>  |
| <b>6</b> | <b>Government of India Schemes</b>              | <b>306.19</b>   | <b>6</b>    | <b>Government of India Schemes</b>   | <b>215.24</b>   |
| <b>7</b> | <b>Grants from ICAR</b>                         |                 | <b>7</b>    | <b>Grants from ICAR</b>  |                 |
| a        | ICAR Development Schemes                        | 335.25          | a           | ICAR Development Schemes   | 206.13          |
| b        | ICAR Coordinated Projects (75%)                 | 158.80          | b           | ICAR Coordinated Projects (75%)  | 100.70          |
| c        | ICAR Coordinated Projects (100%)                | 37.68           | c           | ICAR Coordinated Projects (100%)   | 130.17          |
| d        | Krishi Vignyana Kendra                          | 173.39          | d           | Krishi Vignyana Kendra   | 150.37          |
|          | <b>Sub Total - 7</b>                            | <b>705.12</b>   |             | <b>Sub Total - 7</b>   | <b>587.37</b>   |
| <b>8</b> | <b>Other Agencies</b>                           | <b>196.07</b>   | <b>8</b>    | <b>Other Agencies</b>  | <b>146.36</b>   |
|          | <b>TOTAL A (1 to 8)</b>                         | <b>26818.04</b> |             | <b>TOTAL A</b>   | <b>26109.66</b> |
| <b>B</b> | <b>FOUNDATION FUNDS</b>                         |                 | <b>B</b>    | <b>FOUNDATION FUND</b>   |                 |
| <b>C</b> | <b>DEPT &amp; SUSPENCE A/C.</b>                 |                 | <b>C</b>    | <b>DEBT &amp; SUSPENCE A/C.</b>  |                 |
| a        | Debt & Suspense A/c (General)                   | 10282.48        | a           | Debt & Suspense A/c (General)  | 10154.83        |
| b        | Recovery / Deductions from Salary & Other bills | 2566.84         | b           | Recovery / Deductions from Salary & Other bills  | 2562.56         |
|          | <b>Total C</b>                                  | <b>12849.32</b> |             | <b>Total C</b>   | <b>12717.39</b> |
|          | <b>TOTAL (A+B+C)</b>                            | <b>39667.36</b> |             | <b>TOTAL (A+B+C)</b>   | <b>38827.05</b> |
|          | <b>Add : Opening Balance</b>                    | <b>6008.75</b>  |             | <b>Add : Closing Balance</b>   | <b>6849.06</b>  |
|          | <b>GRAND TOTAL</b>                              | <b>45676.11</b> |             | <b>GRAND TOTAL</b>   | <b>45676.11</b> |

## VI. GENERAL ADMINISTRATION

### 1) Promotion under Caren Advancement Scheme

#### a) From Assistant Professor AGP- 6000 to Assistant Professor AGP-7000

**University Order No. R/Rectt./97<sup>th</sup> BOM/CAS-2006/Asst.Prof.AGP-6000 to7000/2021-22**  
**Dated: 15.04.2021**

| #  | <i>Name and Address</i>   | <i>Effective Date</i> |
|----|---|-----------------------|
| 1  | Dr. L. Ganesh Prasad<br>Assistant Professor, Dept. of Fisheries Engineering and Technology,<br>College of Fisheries , Mangaluru   | 10.03.2019            |
| 2  | Dr. Ravindra Gouda Patil<br>Assistant Professor, Fisheries Research & Information Centre,<br>Hesaraghatta, Bengaluru  | 20.07.2016            |
| 3  | Dr. G. S. Mamatha<br>Assistant Professor, Dept. of Veterinary Parasitology<br>Veterinary College, Hebbal, Bengaluru   | 11.08.2016            |
| 4  | Dr. Malashree. L.<br>Assistant Professor, Dept. of Dairy Microbiology<br>Dairy Science College, Hebbal, Bengaluru   | 10.03.2019            |
| 5  | Dr. Basavarajaiah. D. M.<br>Assistant Professor, Dept. of Statistics,<br>Dairy Science College, Hebbal, Bengaluru   | 07.03.2019            |
| 6  | Dr. Harisha. M.<br>Assistant Professor, Dept. of Veterinary & Animal Husbandry Extension<br>Education, Veterinary College, Shivamogga.  | 10.03.2019            |
| 7  | Dr. Udhav Somala Jadhav<br>Assistant Librarian, University Library and information Centre<br>Veterinary College, Bidar  | 16.02.2013            |
| 8  | Dr. Shanta S. Betageri<br>Assistant Librarian, Library & information Centre<br>Regional Campus, Veterinary College, Hebbal, Bengaluru   | 15.04.2015            |
| 9  | Dr. Rashmi L.<br>Assistant Professor, Dept. of Veterinary Microbiology<br>Veterinary College, Gadag   | 04.01.2018            |
| 10 | Dr. Sumathi B.R<br>Assistant Professor of Veterinary Microbiology,<br>Dept. of Biological Production,<br>Institute of Animal Husbandry & Veterinary Biological, Hebbal,<br>Bengaluru  | 15.03.2019            |
| 11 | Dr. Kavitha G.<br>Assistant Professor of Veterinary Microbiology,<br>Dept. of Biological Production,<br>Institute of Animal Husbandry & Veterinary Biological, Hebbal,<br>Bengaluru   | 15-3-2019             |
| 12 | Dr. Saritha N.S.<br>Assistant Professor of Veterinary Microbiology,<br>Dept. of Biological Production,<br>Institute of Animal Husbandry & Veterinary Biological, Hebbal,<br>Bengaluru | 15.03.2019            |

|    |  |            |
|----|--|------------|
| 13 | Dr. Dharanesh N.K.<br>Assistant Professor of Veterinary Pathology,<br>Dept. of Animal Disease Diagnostic Laboratory and Information Centre<br>Institute of Animal Husbandry & Veterinary Biological,<br>City Hospital Compound Dhanvantri Road, Mysuru | 15.03.2019 |
| 14 | Dr. Shankar B.P.<br>Assistant Professor of Veterinary Pathology,<br>Dept. of Epidemiology Informatics & Training , Institute of Animal<br>Husbandry & Veterinary Biological, Hebbal, Bengaluru   | 15.03.2018 |
| 15 | Dr. Sudha Rani R.<br>Assistant Professor of Veterinary Parasitology,<br>Dept. of Diagnostic Parasitology,<br>Institute of Animal Husbandry & Veterinary Biological, Hebbal,<br>Bengaluru   | 15.03.2019 |
| 16 | Dr. Shilpashree B.G.<br>Assistant Professor<br>Dept. Dairy Chemistry, Dairy Science College, Bengaluru   | 18.11.2015 |
| 17 | Dr. Ananth Krishana L.R.<br>Assistant Professor,<br>Dept. of Physiology and Biochemistry, Veterinary College, Shivamogga   | 24.11.2015 |
| 18 | Dr. Prakashkumar Rathod<br>Assistant Professor<br>Dept. of Veterinary and A.H Extension Education, Veterinary College,<br>Bidar  | 30.11.2015 |
| 19 | Dr. Prashantkumar Waghe<br>Assistant Professor<br>Dept. of Pharmacology and Toxicology, Veterinary College, Bidar  | 11.01.2016 |
| 20 | Dr. Yathish H.M.<br>Assistant Professor<br>Dept. of Animal Genetics and Breeding, Veterinary College, Bengaluru  | 28.07.2016 |

**b) From Assistant Professor AGP- 7000 to Assistant Professor AGP-8000**

**University Order No. No:R/Rectt./97<sup>th</sup> BOM/CAS-2006/Asst.Prof.AGP-7000 to 8000/2021-22**

**Date: 15.04.2021**

| # | Name and Address  | Effective Date |
|---|---|----------------|
| 1 | Dr. M.S. Rudraswamy<br>Assistant Professor of Animal Nutrition<br>Head & Farm Superintendent,<br>Livestock Research & Information Centre, Konehalli, Tiptur | 08.09.2018     |
| 2 | Dr. Manjappa<br>Assistant Professor of Aquaculture<br>Fisheries Research & Information Centre, Hesaraghatta, Bengaluru                                      | 16.03.2019     |
| 3 | Dr. Nagappa Karabasanavar<br>Assistant Professor,<br>Dept. of Veterinary Public Health & Epidemiology<br>Veterinary College, Hassan                         | 04.09.2017     |
| 4 | Dr. Suresh B.N<br>Assistant Professor of Animal Nutrition<br>Dept. of Livestock Farm Complex, Veterinary College, Hassan                                    | 20.07.2018     |

|   |  |            |
|---|--|------------|
| 5 | Dr. P. Mohan<br>Assistant Professor of VGO<br>Head, Livestock Research & Information Centre<br>Village & Post: H. Gollahalli, Tq: Mulbagal District: Kolar | 25.07.2018 |
|---|--|------------|

**c) From Assistant Professor AGP- 8000 to Associate Professor AGP-9000**

**University Order No. R/Rectt./97<sup>th</sup>BOM/CAS-2006/AGP-8000 to AGP-9000/2021-22**

**Dated: 15.04.2021**

| #  | Name and Address  | Effective Date |
|----|---|----------------|
| 1  | Dr. Ravindra, B.G.<br>Assistant Professor<br>Dept. of Veterinary Medicine, Veterinary College, Bidar  | 04.12.2018     |
| 2  | Dr. Shivakumar, K. Radder<br>Assistant Professor<br>Dept. of Veterinary & Animal Husbandry Extension Education<br>Veterinary College, Gadag | 17.01.2019     |
| 3  | Dr. Mridula Rajesh<br>Assistant Professor<br>Dept. of Fish Resources & Management, College of Fisheries, Mangaluru                          | 27.12.2018     |
| 4  | Dr. Manjunatha, L.<br>Assistant Professor<br>Dept. of Veterinary & Animal Husbandry Extension Education<br>Veterinary College, Hassan       | 17.01.2019     |
| 5  | Dr. Sudha, G.<br>Assistant Professor<br>Dept. of Veterinary Gynecology & Obstetrics<br>Veterinary College, Bengaluru                        | 20.12.2018     |
| 6  | Dr. Jagadeeswary<br>Assistant Professor<br>Dept. of Veterinary & Animal Husbandry Extension Education<br>Veterinary College, Bengaluru      | 01.03.2019     |
| 7  | Dr. S.B. Prasanna<br>Assistant Professor<br>Dept. of Livestock Production and Management<br>Veterinary College, Bengaluru                   | 20.12.2018     |
| 8  | Dr. Ananda, K.J.<br>Assistant Professor<br>Dept. of Veterinary Parasitology, Veterinary College, Bengaluru                                  | 02.03.2019     |
| 9  | Dr. M.C. Anilkumar<br>Assistant Professor<br>Dept. of Veterinary Medicine, Veterinary College, Bengaluru                                    | 03.01.2019     |
| 10 | Dr. K.M. Srinivasa Murthy<br>Assistant Professor<br>Dept. of Veterinary Surgery & Radiology, Veterinary College, Bengaluru                  | 15.02.2019     |
| 11 | Dr. Prabha, R.<br>Assistant Professor<br>Dept. of Dairy Microbiology, Dairy Science College, Bengaluru                                      | 19.12.2018     |

|    |  |            |
|----|--|------------|
| 12 | Dr. B.E. Shambulingappa<br>Assistant Professor<br>Dept. of Veterinary Microbiology, Veterinary College, Shiva mogga        | 01.02.2019 |
| 13 | Dr. A.M. Kotresh<br>Assistant Professor<br>Dept. of Veterinary Physiology & Biochemistry<br>Veterinary College, Shivamogga | 27.12.2018 |

**d) From Associate Professor to Professor AGP- 9000 to AGP-10000**

**University Order No:R/Rectt/97<sup>th</sup> BOM/CAS-2006/Assco.Prof. to Prof./2021-22  
Date: 15.04.2021**

| #  | <i>Name and Address</i>  | <i>Effective Date</i> |
|----|--|-----------------------|
| 1  | Dr. Shrikant Kulkarni<br>Associate Professor<br>Dept. of Veterinary Physiology & Bio-Chemistry, Veterinary College, Bidar    | 20.01.2018            |
| 2  | Dr. M. Shivakumar<br>Associate Professor<br>Dept. of Veterinary Medicine, Veterinary College, Hassan                         | 15.09.2018            |
| 3  | Dr. Suresh. L.<br>Associate Professor<br>Dept. of Veterinary Surgery & Radiology, Veterinary College, Bengaluru              | 18.01.2019            |
| 4  | Dr. Shrikrishna Isloor<br>Associate Professor<br>Dept. of Veterinary Microbiology, Veterinary College, Bengaluru             | 20.01.2018            |
| 5  | Dr. Chidanandaih<br>Associate Professor<br>Dept. of Livestock Product Technology, Veterinary College, Shivamogga.            | 20.01.2018            |
| 6  | Dr. N.B. Shridhar<br>Associate Professor<br>Dept. of Veterinary Pharmacology & Toxicology,<br>Veterinary College, Shivamogga | 20.01.2018            |
| 7  | Dr. Veeregowda. B.M.<br>Associate Professor<br>Dept. of Veterinary Microbiology, Veterinary College, Bengaluru               | 20.01.2018            |
| 8  | Dr. Raveendra Hegde<br>Associate Professor<br>Dept. of Veterinary Microbiology, Veterinary College, Hassan                   | 15.03.2017            |
| 9  | Dr. Sobha Rani<br>Associate Professor of Veterinary Microbiology<br>Dept. of SRDDL, IAH& VB, Hebbal, Bengaluru               | 15.03.2017            |
| 10 | Dr. H.K.Muniyellappa<br>Associate Professor of Veterinary Pathology<br>Dept. of QMS, IAH&VB, Hebbal, Bengaluru               | 15.03.2017            |
| 11 | Dr. K. Sripad<br>Associate Professor of Veterinary Medicine,<br>Dept. of Disease Investigation, IAH& VB, Bengaluru           | 15.03.2017            |

## 2) Non-Teaching Promotion

University Order No. ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಬೋ.ನೌ.ಮುಂಬಡ್ಡಿ/2021-22, dated: 31.08.2021

| #  | Name of the Employee      | Presently working as             | Promoted as                           |
|----|---------------------------|----------------------------------|---------------------------------------|
| 1  | Sri. V.S. Navalagund      | Assistant Administrative Officer | Deputy Registrar                      |
| 2  | Sri. Bhagavant, T. Phule  | Assistant Comptroller            | Deputy Comptroller                    |
| 3  | Sri. Tukaram, C.          | Senior Personal Secretary        | Senior Personal Secretary (Grade-1)   |
| 4  | Sri. K.K. Suryavanshi     | Superintendent (General)         | Assistant Registrar                   |
| 5  | Smt. Savita, V.           | Senior Assistant                 | Superintendent (Accounts)             |
| 6  | Sri. Peersab Mahaboob Sab | Field Assistant                  | Senior Field Assistant                |
| 7  | Sri. Manjunath, K.S.      | Laboratory Technician            | Senior Laboratory Technician          |
| 8  | Sri. Timmareddy           | Laboratory Assistant             | Senior Laboratory Assistant           |
| 9  | Sri. Ashok Manayya        | Laboratory Assistant             | Senior Laboratory Assistant           |
| 10 | Sri. Suryakant, K.        | Laboratory Assistant             | Senior Laboratory Assistant           |
| 11 | Sri. Nagbhushan Hugge     | Senior Personal Secretary        | Senior Personal Secretary (Grade-1)   |
| 12 | Sri. Nagendra, S.         | Senior Personal Secretary        | Senior Personal Secretary (Grade-1)   |
| 13 | Sri. B.V. Govindrajan     | Superintendent (General)         | Assistant Administrative Officer      |
| 14 | Sri. P.Y. Kattimani       | Superintendent (General)         | Assistant Registrar                   |
| 15 | Smt. Vijayalakshmi        | Stenographer                     | Personal Secretary                    |
| 16 | Sri. B. Gururaj           | Senior Assistant                 | Superintendent (General)              |
| 17 | Smt. Vidyashree, N.       | Junior Engineer (Electrical)     | Assistant Engineer (Electrical)       |
| 18 | Smt. Nandana, G.S.        | Junior Engineer (Electrical)     | Assistant Engineer (Electrical)       |
| 19 | Sri. Sunilkumar, N.       | Assistant                        | Senior Assistant                      |
| 20 | Sri. G.S. Mahadevaiah     | Assistant                        | Senior Assistant                      |
| 21 | Smt. Mamata, R.           | Assistant                        | Senior Assistant                      |
| 22 | Sri. Kambadarangaiyah     | Assistant                        | Senior Assistant                      |
| 23 | Sri. Mohammed Rafeek, B.  | Assistant                        | Senior Assistant                      |
| 24 | Sri. V.N. Naik            | Field Assistant                  | Senior Field Assistant                |
| 25 | Sri. M. Krishnappa        | Field Assistant                  | Senior Field Assistant                |
| 26 | Sri. Kumaraswamy          | Field Assistant                  | Senior Field Assistant                |
| 27 | Smt. S. Susheela          | Senior Laboratory Assistant      | Senior Laboratory Assistant (Grade-1) |
| 28 | Sri. A. Siddappa          | Senior Laboratory Assistant      | Senior Laboratory Assistant (Grade-1) |



|    |                         |                       |                              |
|----|-------------------------|-----------------------|------------------------------|
| 29 | Smt. Manjushree, S.     | Laboratory Technician | Senior Laboratory Technician |
| 30 | Smt. Chitra, K.         | Laboratory Technician | Senior Laboratory Technician |
| 31 | Smt. Mamata, J.         | Laboratory Technician | Senior Laboratory Technician |
| 32 | Smt. Shilpashree, R.    | Laboratory Technician | Senior Laboratory Technician |
| 33 | Smt. Nandini, P.        | Laboratory Technician | Senior Laboratory Technician |
| 34 | Sri. Puttaraju          | Laboratory Technician | Senior Laboratory Technician |
| 35 | Sri. Vijayakumar        | Laboratory Technician | Senior Laboratory Technician |
| 36 | Sri. Venkatesh, C.N.    | Laboratory Technician | Senior Laboratory Technician |
| 37 | Sri. Sadanand, Y. Bhovi | Laboratory Assistant  | Senior Laboratory Assistant  |
| 38 | Sri. H. Ganesh          | Laboratory Assistant  | Senior Laboratory Assistant  |
| 39 | Sri. Rangaswamy         | Laboratory Assistant  | Senior Laboratory Assistant  |
| 40 | Smt. R. Nandini         | Laboratory Assistant  | Senior Laboratory Assistant  |
| 41 | Sri. Premnath           | Laboratory Assistant  | Senior Laboratory Assistant  |
| 42 | Sri. J.L. Venkatesha    | Laboratory Assistant  | Senior Laboratory Assistant  |
| 43 | Sri. L.N. Bettaswamy    | Laboratory Assistant  | Senior Laboratory Assistant  |
| 44 | Sri. Arjun Gudadoor     | Laboratory Assistant  | Senior Laboratory Assistant  |
| 45 | Sri. L. Kempanna        | Laboratory Assistant  | Senior Laboratory Assistant  |
| 46 | Smt. Chikkamma          | Laboratory Assistant  | Senior Laboratory Assistant  |
| 47 | Sri. L. Mahesh          | Laboratory Assistant  | Senior Laboratory Assistant  |
| 48 | Sri. Raghupati          | Laboratory Assistant  | Senior Laboratory Assistant  |
| 49 | Sri. Ramesh             | Laboratory Assistant  | Senior Laboratory Assistant  |
| 50 | Sri. B.M. Kumar         | Laboratory Assistant  | Senior Laboratory Assistant  |

|    |                            |                      |                             |
|----|----------------------------|----------------------|-----------------------------|
| 51 | Sri. Wazeer Ahammed        | Laboratory Assistant | Senior Laboratory Assistant |
| 52 | Smt. R. Kumuda             | Laboratory Assistant | Senior Laboratory Assistant |
| 53 | Sri. Venkatesha Murthy, V. | Laboratory Assistant | Senior Laboratory Assistant |
| 54 | Smt. Soubhagya, V.         | Boiler Man           | Senior Boiler Man           |
| 55 | Smt. Bhagirathi            | Messenger            | Attender                    |

### 3) Superannuation

#### List of Superannuated Employees of KVAFSU, Bidar between 01-04-2021 to 31-03-2022

| #                         | <i>Employs Name Designation &amp; Place</i>  | <i>Empl. No.</i> | <i>Date of Birth</i> | <i>Date of Super-annuation</i> | <i>Retirement dated</i> |
|---------------------------|--|------------------|----------------------|--------------------------------|-------------------------|
| <b>TEACHING STAFF</b>     |  |                  |                      |                                |                         |
| 1                         | Dr. D.B. Puranik<br>Professor<br>Dairy Science College, Bengaluru  | 1087             | 06.04.1959           | 06.04.2021                     | 30.04.2021              |
| 2                         | Dr. K.S. Ramesh<br>Professor<br>College of Fisheries, Mangaluru  | 1093             | 01.06.1959           | 31.05.2021                     | 31.05.2021              |
| 3                         | Dr. H.M. Jayaprakash<br>Dean<br>Dairy Science College, Bengaluru   | 1058             | 20.07.1959           | 20.07.2021                     | 31.07.2021              |
| 4                         | Dr. Suresh, S. Honnappagol<br>Professor<br>Veterinary College, Bengaluru                                       | 1002             | 21.07.1959           | 21.07.2021                     | 31.07.2021              |
| 5                         | Dr. U.S. Biradar<br>Professor<br>Veterinary College, Bidar   | 1040             | 21.07.1959           | 21.07.2021                     | 31.07.2021              |
| <b>NON-TEACHING STAFF</b> |  |                  |                      |                                |                         |
| 1                         | Smt. Kempamma<br>Farm Labour<br>Veterinary College, Bengaluru  | 1991             | 08.05.1961           | 08.05.2021                     | 31.05.2021              |
| 2                         | Mr. Venkataraman<br>Sr. Animal Attender Grade-1<br>Dairy Science College, Bengaluru                            | 1528             | 17.05.1961           | 17.05.2021                     | 31.05.2021              |
| 3                         | Smt. Grijamma<br>Sr. Animal Attender (Grade-1)<br>Veterinary College, Bengaluru                                | 1433             | 09.07.1961           | 09.07.2021                     | 31.07.2021              |
| 4                         | Mr. Shiva<br>Attender<br>Dairy Science College, Bengaluru  | 1554             | 22.07.1961           | 22.07.2021                     | 31.07.2021              |
| 5                         | Mr. M. Raveendra<br>Laboratory Technician<br>Institute of Animal Health &<br>Veterinary Biologicals, Bengaluru | 2081             | 22.07..196<br>1      | 22.07.2021                     | 31.07.2021              |

|    |   |      |            |            |            |
|----|---|------|------------|------------|------------|
| 6  | Mr. V. Krishna Murty<br>Attender<br>Veterinary College, Bengaluru   | 1347 | 23.07.1961 | 23.07.2021 | 31.07.2021 |
| 7  | Mr. N. Gopalappa<br>Attender<br>Veterinary College, Bengaluru   | 1477 | 31.07.1961 | 31.07.2021 | 31.07.2021 |
| 8  | Mr. L. Lakshmnamurty<br>Senior Farm Labour<br>Veterinary College, Bengaluru   | 1482 | 13.08.1961 | 13.08.2021 | 31.08.2021 |
| 9  | Mr. S. Muniyappa<br>Sr. Animal Attender Grade-1<br>Veterinary College, Bengaluru                                      | 1444 | 01.12.1921 | 01.12.2021 | 30.11.2021 |
| 10 | Mr. Mallayya<br>Sr. Animal Attender Grade-1<br>Veterinary College, Bengaluru  | 1441 | 25.12.1961 | 25.12.2021 | 31.12.2021 |
| 11 | Mr. Sadananda Yadu Bhoyi<br>Laboratory Assistant<br>Fisheries Research & Information<br>Center, Ankola                | 1394 | 01.01.1962 | 01.01.2022 | 31.12.2021 |
| 12 | Mr. Kamalakar, K. Suryavanshi<br>Assistant Registrar<br>Dairy Science College, Kalaburagi                             | 1271 | 05.02.1962 | 05.02.2022 | 28.02.2022 |
| 13 | Mr. Gurishetty<br>Senior Laboratory Assistant<br>Veterinary College, Bidar  | 1802 | 10.03.1962 | 10.03.2022 | 31.03.2022 |
| 14 | Mr. K. Munigowda<br>Assistant Executive Engineer<br>Institute of Animal Health &<br>Veterinary Biologicals, Bengaluru | 2103 | 15.03.1962 | 15.03.2022 | 31.03.2022 |
| 15 | Mr. S.R. Mahesh<br>Senior Laboratory Technician<br>Institute of Animal Health &<br>Veterinary Biologicals, Bengaluru  | 2103 | 15.03.1962 | 15.03.2022 | 31.03.2022 |

**Employees Death during 2021-22**

|   |   |      |            |            |            |
|---|---|------|------------|------------|------------|
| 1 | Late. Kempamma<br>D.R.E.<br>Veterinary College, Bengaluru   | 1991 | 08.05.1961 | 03.07.2017 | 10.03.2021 |
| 2 | Late. V. Shanthamma<br>Attender<br>Veterinary College, Bengaluru  | 1366 | 15.06.1968 | 20.09.1999 | 21.04.2021 |
| 3 | Late. Mallikarjun Ligade<br>Deputy Comptroller<br>Veterinary College, Bidar   | 1187 | 06.03.1964 | 04.04.1994 | 22.04.2021 |
| 4 | Late. Santosh, S. Talawar<br>Senior Field Assistant<br>Buffalo Research & Information<br>Centre, Dornahalli-Yadgiri | 1897 | 24.05.1984 | 06.02.2013 | 26.04.2021 |
| 5 | Late. J. Guruprasad<br>Laboratory Assistant<br>Veterinary College, Bengaluru  | 1665 | 25.03.1983 | 16.06.2013 | 08.05.2021 |

|    |  |      |            |            |            |
|----|--|------|------------|------------|------------|
| 6  | Late. Shivananda, T. Walikar<br>Senior Assistant<br>Fisheries Research & Information<br>Center, Bhutanal-Vijayapur | 1860 | 02.10.1976 | 27.02.2013 | 17.05.2021 |
| 7  | Late. Dr. Yashwanthkumar<br>Physical Education (Professor)<br>Veterinary College, Bidar                            | 1169 | 01.06.1960 | 08.08.1989 | 19.05.2021 |
| 8  | Late. Bandemma<br>D.R.E.<br>Veterinary College, Bidar  | 5014 | 01.01.1969 | 02.11.1992 | 06.06.2021 |
| 9  | Late. Shrimanth<br>D.R.E.<br>Veterinary College, Bidar   | 5023 | 01.06.1971 | 25.02.1993 | 16.06.2021 |
| 10 | Late. Vaijinath Kadde<br>Sr.Cook Cum Caretaker<br>Veterinary College, Bidar  | 1393 | 01.06.1964 | 04.03.2003 | 20.02,2022 |
| 11 | Late. Shrinivas, V.<br>Senior Field Assistant<br>Fisheries Research & Information<br>Center, Hebbal, Bengaluru     | 1279 | 20.05.1966 | 13.11.1995 | 06.03.2022 |

## VII. INFRASTRUCTURE DEVELOPMENT

Details of progress of works under taken by KVAFSU during the year 2021-22

| #            | Name of Work  | Bid Amount<br>in Rupees |
|--------------|---|-------------------------|
| 1            | Construction of Piggery Shed at LRIC-Mulibagilu                             | 9,99,993.00             |
| 2            | Drilling of Borewell (2Nos) at LRIC, Nagamangala-Mandya                     | 3,48,622.00             |
| 3            | Miscellaneous Civil Works at CRIC, Mudhol-Timapur                           | 1,59,768.00             |
| 4            | Laying if pipe line at FRIC, Bhutnal-Vijayapur                              | 90,107.<br>00           |
| 5            | Renovation of Fish Pond at FRIC, Bhutnal-Vijayapur                          | 3,00,19<br>4.00         |
| 6            | Renovation of Fish Pond at FRIC, Hesaraghatta-Bengaluru                     | 3,59,98<br>6.00         |
| 7            | Renovation of Fish Pond at FRIC, Hebbal- Bengaluru                          | 5,38,76<br>6.00         |
| 8            | Addition and improvement to Office Building at BRIC, Dornahalli,<br>Yadgiri | 9,96,83<br>3.00         |
| 9            | Renovation of Buffalo Shed at BRIC, Dornahalli-Yadgiri                      | 1,69,33<br>1.00         |
| <b>Total</b> |   | <b>39,63,600.00</b>     |