



# KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY

*Nandinagar, BIDAR - 585 226, Karnataka*

## **18<sup>th</sup>** Annual Report

## **2022-23**





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

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



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## Preface

The Karnataka Veterinary, Animal, and Fisheries Sciences University, Bidar with the motto of “Rural Oriented and Farmer Friendly” striving hard to serve farmers of our state. The university is a driving institute in domains Education, Research and Extension with human resource development, innovativeness, outreach activities and transfer of modern technologies in Veterinary, Animal, Dairy, Fisheries and allied sectors. With great joy I would like to place the Eighteenth Annual Report of Karnataka Veterinary, Animal, and Fisheries Sciences University, Bidar for the year 2022-2023.

The University is constituted of 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, Post Graduate and Doctoral degree programs in Veterinary and Animal Sciences, Fishery Sciences and Dairy Technology. 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 including 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 2022-23, a total of 1012 degrees comprising of 735 Undergraduate, 215 Masters and 62 Doctoral degrees were awarded in Veterinary, Dairy and Fisheries Sciences. Many virtual training programmes were conducted during the period. The students excelled not only academically but also in other activities such as sports and NSS programs. At the 12th Convocation of the University a total of 154 Gold Medals were awarded to the candidates with high academic performance. Apart from academics 16th Intercollegiate sports and games meet held at Veterinary College Hebbal, Bengaluru and 16th Intercollegiate Youth festival held at Veterinary College, Bidar.

The University has become a center for research in Veterinary, Animal and Fisheries Sciences. In the current year, 45 projects worth of Rs. 653.42 lakhs have been completed and 72 projects worth of Rs. 5981.26 lakhs are underway that are funded by the government and outside agencies. 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



## Editorial

Animal husbandry and fishery are vital in Doubling Farmers' Income (DFI) by 2023 which account for quarter of GDP of agriculture. 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. It is imparting education to the youths in Veterinary, Dairy Technology and Fisheries Sciences with high standard capacity development programmes. 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)' program 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. 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, 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, faculty 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:** 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. Raghavendra Bhatta, Director, NIANP, Bengaluru (ICAR Nominee)  
Dr. N.K. Sudeep Kumar, TANVASU, Chennai (VC Nominee)  
Dr. Kapa Sarjan Rao, Director of Research, SVVU, Tirupati (VC Nominee)  
Dr. Shirish Upadhya, Dean, MAFSU, Nagpur (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) Fisheries Research and Information Centre (Inland), Bhutnal, Vijayapura District
- 12) Livestock Research & Information Center, Gollahalli, Mulabagilu Taluk, Kolar District
- 13) Fish Seed Production Farm, Shivapura, Koppal District (to be taken over / established)
- 14) Rural Veterinary Hospital, Yelahanka, Bengaluru
- 15) Veterinary Hospital, APMC, Bidar Taluk & District

## 3. Krishi Vigyan Kendra

- 1) Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru

## 4. Extension Education Centers/ Institutes

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

## Officers of the University during the period (2022-2023)

1	Vice-Chancellor, KVAFSU, Bidar	<b>Dr. K.C. Veeranna</b>
2	Registrar, KVAFSU, Bidar	<b>Dr. B.V. Shivaprakash</b> <b>Mr. Sivasankar, S. IFS</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. 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. 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> <b>Dr. H.N. Anjaneyappa</b>
17	Director, IAH&VB, Hebbal, Bengaluru	<b>Dr. M.D. Venkatesha</b>
18	Director, IWVR, Doddaluvara, Kodagu	<b>Dr. L. Ranganath</b>
19	Head of Division-Pre & Para Clinical Sciences	<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. M.M. Appannavar</b>
22	Head of Division-Fisheries Science	<b>Dr. H.N. Anjaneyappa</b>
23	Head of Division-Dairy Science	<b>Dr. H. Arunkumar</b>
24	Comptroller, KVAFSU, Bidar	<b>Mr. Subhash Hosur</b> <b>Mr. Sivasankar, S. IFS</b> <b>Mr. Shrikanth</b> <b>Ms. Gayatri</b> <b>Dr. Vivek, R. Kasarallikar</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 123 students graduated Master's degree and 24 received Doctoral degrees. In Dairy science, 23 students graduated Master's degree and 02 students

were awarded Doctoral degrees. In Fisheries science, 29 and 06 students were awarded Master's degree and Doctoral degrees respectively.

Admission under various degree programmes to KVAFSU was undertaken during 2022-23 and the intake was 476 students for UG programmes. Among 476 under graduate students, admitted to various degree programmes 353 were for BVSc&AH degree at Bengaluru, Bidar, Shivamogga, Hassan and Gadag campuses and 71 for B.Tech (Dairy), Degree at Bengaluru and Kalaburagi and 52 for Bachelor in Fisheries Science Degree at Mangaluru. A total 242 students were admitted for Animal Husbandry Polytechnics at Konehalli, Kunnur, Bargi, Koravangala and Dornahalli respectively.

During 12<sup>th</sup> Convocation of the University, a total of 1012 degrees were awarded, that included 735 Under Graduates, 215 Post Graduates and 62 Doctoral Degrees in Veterinary, Dairy and Fisheries Sciences. A total of 154 Gold Medals were awarded for the candidates with high academic performances in Under Graduates (83), Post Graduates (53) and Doctoral Degrees (18).

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 45 Research Projects with the funding support from State Government, GoI, Dept. of Biotechnology, ICAR, private institutions and National and International organizations during 2022-23. Besides, 72 Ongoing Projects amounting to Rs. 5981.26 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 779 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 6 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 114 Radio / TV programmes were given of which 95 were Radio talks and 19 were TV programmes. A total of 106 Animal Health Camps were conducted and 11,670 animals were treated in the camp. A total of 210 demonstrations were conducted. A total of 1,17,155 animal health care services were provided to the farmers and diagnostic services provided were 1,87,405 and 12,944 consultancy / advisory services were provided. A total of 297 Training Programmes / Workshops / Conferences / Seminars / Symposia were conducted in 2022-23 and a total of 1170 scientists were participated in the Training Programmes / Workshops / Conference / Seminars as Resource Scientists and 543 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 animals 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 2022-23

#	<i>Meetings</i>	<i>Date</i>	<i>Place</i>
<b>Meetings of Board of Management</b>			
1	102 <sup>nd</sup> Board of Management Meeting	08.04.2022	Bengaluru
2	103 <sup>rd</sup> Board of Management Meeting	27.04.2022	Bidar
3	Special Meeting of Board of Management	16.05.2022	Online
4	104 <sup>th</sup> Board of Management Meeting	29.07.2022	Bengaluru
5	Special Meeting of Board of Management	20.09.2022	Online
6	105 <sup>th</sup> Board of Management Meeting	29.10.2022	Bengaluru
7	Special Meeting of Board of Management	08.12.2022	Online
8	106 <sup>th</sup> Board of Management Meeting	16.01.2023	Bidar
9	107 <sup>th</sup> Board of Management Meeting	21.02.2023	Bidar
10	Special Meeting of Board of Management	30.03.2023	Bengaluru
<b>Academic Council Meetings</b>			
1	36 <sup>th</sup> Academic Council Meeting	26.04.2022	Bidar
2	37 <sup>th</sup> Academic Council Meeting	20.06.2022	Bidar
3	38 <sup>th</sup> Academic Council Meeting	30.01.2023	Bidar
<b>Finance Committee Meetings</b>			
1	49 <sup>th</sup> Finance Committee Meeting	08.04.2022	Bengaluru
2	50 <sup>th</sup> Finance Committee Meeting	28.07.2022	Bengaluru
3	51 <sup>st</sup> Finance Committee Meeting	28.09.2022	Online
4	52 <sup>nd</sup> Finance Committee Meeting	28.10.2022	Bengaluru
5	53 <sup>rd</sup> Finance Committee Meeting	16.01.2023	Bidar
6	54 <sup>th</sup> Finance Committee Meeting	29.04.2023	Bengaluru
<b>Extension Education Council Meetings</b>			
1	17 <sup>th</sup> Extension Education Council's Meeting	11.10.2022	Bidar
<b>Research Council Meetings</b>			
1	17 <sup>th</sup> Research Council's Meeting	10.10.2022	Bidar
<b>Planning and Works Committee Meetings</b>			
1	29 <sup>th</sup> Planning and Works Committee Meeting	28.10.2022	Bengaluru
<b>Sports and Cultural Council Meetings</b>			
1	16 <sup>th</sup> Sports and Cultural Council Meeting	11.10.2022	Bidar
<b>Hostel Supervisory Committee Meetings</b>			
1	11 <sup>th</sup> Hostel Supervisory Committee Meeting	11.10.2022	Bidar

## Important Meetings / Events attended by the Vice-Chancellor, KVAFSU, Bidar during 2022-23

#	Date	Meetings / Events Attended
1	11.07.2022	Attended workshop on GM Crops & Animal Nutrition, visited the office of the Hon'ble Governor of Karnataka and Chancellor of the University to submit joining report as 5 <sup>th</sup> Vice-Chancellor of KVAFSU, Bidar at Raj Bhavan, Bengaluru
2	27.07.2022	Attended office and inaugurated Tree Plantation Programme at Bidar organized by Rotary Club, ICAR-KVK, Bidar and Nandika Social Organization at Bidar
3	28.07.2022	Chaired Finance Committee meeting at Regional Office, Bengaluru
4	29.07.2022	Chaired 104 <sup>th</sup> Board of Management meeting at Regional office, Bengaluru
5	15.08.2022	Attended Flag hoisting program at University Headquarters as Chief Guest on the Occasion of 75 <sup>th</sup> Independence Day
6	23.08.2022	Attended Kagada Patra Samiti meeting at LH, Bengaluru and to delivered keynote address in International Conference at University of Agricultural Sciences, GKVK, Bengaluru
7	25.08.2022	Attended inaugural programme of "KVAFSU-KPFBA Poultry Diagnostic & Training Centre", Bengaluru by Hon'ble Minister for Animal Husbandry, GOK and return journey to headquarters.
8	01.11.2022	Flag hoisted at University Headquarters Bidar in the occasion of "Karnataka Rajotsva"
9	03.11.2022	Attend and presented lead paper on IVEF 9 <sup>th</sup> National Conference to "Scaling-Up of Livestock Extension Innovations for Doubling Farmers Income" at Ranchi, Jharkhand organized by Ranchi Veterinary & Animal Husbandry College, BAU, Ranchi
10	05.11.2022	Attended office at HQ and to inaugurated 16 <sup>th</sup> Inter-Collegiate Youth Festival "Kala Karanji" at University HQ Bidar
11	20.11.2022	Attended as Chief Guest in the National Seminar on Animal Husbandry and Dairy organised by Sri Dharmasthal Developmental Society at Veterinary College, Bidar
12	22.11.2022	Attended Department Developmental Review meeting under the Chairmanship of Hon'ble Minister for Animal Husbandry, GOK at Vikas Soudha, Bengaluru
13	26.11.2022	Inaugurated "National Milk Day" & Awareness Programme at Kannada Sabhangana, Dairy Science College, Hebbal, Bengaluru
14	29.11.2022	Chaired Non-Teaching Employees Association Grievance meeting; DRE & D Group Employees Grievance meeting and SC-ST Association Grievance meeting at University Headquarters, Bidar
15	06.12.2022	Met Hon'ble Minister for Energy, Kannada and Culture, Govt. of Karnataka Office in connection with Veterinary College, Puttur developmental work at Bengaluru
16	20.12.2022	Attended meeting under the chairmanship of Hon'ble Minister for Animal Husbandry, GOK along with Registrar at Suvarna Soudha, Belgavi
17	25.12.2022	Welcomed Hon'ble Governor of Karnataka and the Chancellor of the University Sri. Thawarhand Gehlor Ji at Habsikot Guest House, Bidar
18	26.12.2022	Participated in inauguration of Indoor Stadium by Hon'ble Governor of Karnataka Sri. Thawarchand Gehlot, Ji and visited Veterinary College, Bidar; Chaired Revised Budget meeting at University HQ Bidar

19	05.01.2023	Inaugurated XXIV National Training Programme on “Application of Diagnostic tools for Parasitic Diseases of Veterinary and Public Health Importance” at Veterinary College, Bengaluru
20	16.01.2023	Chaired Finance Committee meeting and 106 <sup>th</sup> Board of Management meeting at University Headquarters, Bidar
21	17.01.2023	Attended 18 <sup>th</sup> Foundation Day programme of Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar inaugurated by Hon’ble Minister for Animal Husbandry, GOK and chief guest Dr. Vinod Bhat, Secretary, Veterinary Council of India, New Delhi at University HQ Bidar
22	18.01.2023	Inaugurated of an International workshop on Animal Welfare Research & Rabies Training organized in association with the Commonwealth Veterinary Association (CVA) at Bengaluru
23	28.01.2023	Inaugurated Alumni Sports & Meet of Diary Science college, Hebbal Bengaluru and attended Karnataka Veterinary Association Technical Seminar at Bengaluru.
24	15.01.2023	Chaired Selection Committee of Teaching Recruitment of Backlog and Kalyana Karnataka 371 (J) Interview at University Headquarters, Bidar
25	21.02.2023	Chaired 107 <sup>th</sup> Board of Management meeting at University Headquarters, Bidar
26	23.02.2023	Attended Vice-Chancellor’s Conclave at Panchamahabhoot Lokotsav at Sri Sidhgiri Math, Kaneri, Kolhapur, Maharashtra.
27	02.03.2023	Attend International Conference on “Swaraj Native Models of Self Governance” organized by the Karnataka State Rural Development & Panchayat Raj University, Gadag and onward journey to New Delhi.
28	04.03.2023	Attended the Annual Conference of Vice-Chancellors (VCs) of Agricultural Universities and Directors Conference of ICAR held at Bharat Ratna C. Subramaniam Auditorium, NASC Complex, New Delhi during 4-5 <sup>th</sup> March, 2023.



## 12<sup>TH</sup> CONVOCATION OF THE UNIVERSITY

The 12<sup>th</sup> Convocation of the Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar was held on 28<sup>th</sup> April, 2022 at Nandinagar Campus, Bidar. The Hon'ble Governor of Karnataka and Chancellor of the University Shri. Thawar Chand Gehlot presided over the Convocation and presented the Degrees, Medals and Awards to the students in Undergraduate, Postgraduate and Doctorate studies. Shri. Prabhu, B. Chauhan, Hon'ble Minister for Animal Husbandry & Pro-Chancellor of the University was present. The Convocation address was delivered by the Chief Guest Dr. Bhupendra Nath Tripathi, Deputy Director General of ICAR (Animal Science), Government of India. Welcome address and brief report of the University was given by Hon'ble Vice-Chancellor Prof. K.C. Veeranna.



All the Members of Board of Management of KVAFSU, namely Sri. Bhojanaik Sri. Vasant Biradar, Dr. Yathiraj, S., Dr. K.P. Ramesha, Dr. N.M. Dinesh, Dr. K. Sathyanarayana, Shri. Deepak Doddaiiah, Smt. Kavita Umashankar Mishra, Dr. B.V. Shivaprakash-Registrar and all the Officers of the University and Academic Council Members were present on the occasion.

Totally 1012 candidates were awarded various degrees in Veterinary and Animal Sciences, Dairy Technology and Fisheries Science. Out of which, 735 at Bachelors level, 215 at Master level and 62 at Doctorate level were conferred. 154 meritorious students were honoured with Gold Medals out of which 83 were Graduates, 53 were Masters and 18 were Doctoral degrees.

## I. TEACHING

### 1) Teaching Institutions

#	<i>Teaching Institute with Location</i>	<i>Year of Establishment</i>	<i>Name of the Dean / Director / Principal</i>	<i>Degree Programmes Offered</i>
1	Veterinary College, Bengaluru	1958	Dr. C.S. Nagaraja	B.V.Sc.&A.H. M.V.Sc. Ph.D.
2	Veterinary College, Bidar	1984	Dr. Dilip Kumar, D.	B.V.Sc.&A.H. M.V.Sc. Ph.D.
3	Veterinary College, Shivamogga	2006	Dr. Prakash, N.	B.V.Sc.&A.H. M.V.Sc.
4	Veterinary College, Hassan	2007	Dr. M.C. Shivakumar	B.V.Sc.&A.H. 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) M.Tech. (Dairy Science) Ph.D. (Dairy Science) 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. M.F.Sc. Ph.D.
9	Institute of Wildlife and Veterinary Research, Kodagu	2007	Dr. L. Ranganath	M.V.Sc. (Wildlife) (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. Shesharao Rathod	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	73	80	67	71	62	Veterinary College, Bengaluru
2	B.V.Sc.&A.H.	62	62	56	51	52	47	Veterinary College, Bidar
3	B.V.Sc.&A.H.	83	81	76	81	68	57	Veterinary College, Shivamogga
4	B.V.Sc.&A.H.	79	73	69	64	75	57	Veterinary College, Hassan
5	B.V.Sc.&A.H.	50	50	48	50	47	-	Veterinary College, Gadag
6	B.Tech. (D.Tech)	46	42	42	39	NA	41	Dairy Science College, Bengaluru
7	B.Tech. (D.Tech)	25	25	23	22	NA	24	Dairy Science College, Kalaburagi
8	B.F.Sc.	52	44	45	40	NA	44	College of Fisheries, Mangaluru
9	Animal Husbandry Diploma	49	47	NA	NA	NA	47	Animal Husbandry Polytechnic, Konehalli-Tumakuru
10	Animal Husbandry Diploma	48	45	NA	NA	NA	44	Animal Husbandry Polytechnic, Kunnur-Haveri
11	Animal Husbandry Diploma	49	44	NA	NA	NA	44	Animal Husbandry Polytechnic, Koravangala-Hassan
12	Animal Husbandry Diploma	47	49	NA	NA	NA	49	Animal Husbandry Polytechnic, Bargi-Chamarajanagar
13	Animal Husbandry Diploma	49	44	NA	NA	NA	41	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	2022-23	I	II	III	2022-23
<b>VETERINARY COLLEGE, BENGALURU</b>								
1	Animal Genetics and Breeding	1	3	1	2	-	1	1
2	Animal Nutrition	8	4	5	-	1	-	1
3	Livestock Production Management	6	2	7	-	-	-	-
4	Livestock Products Technology	3	5	3	-	-	-	-
5	Poultry Science	7	6	7	1	-	-	2
6	Veterinary Animal Husbandry and Extension	-	2	6	-	-	-	-
7	Veterinary Anatomy	-	-	2	2	-	2	-
8	Veterinary Biochemistry	-	-	-	-	-	1	2
9	Veterinary Gynecology and Obstetrics	13	8	7	2	-	-	1
10	Veterinary Medicine	8	5	5	1	4	-	4
11	Veterinary Microbiology	5	4	8	2	3	3	3
12	Veterinary Parasitology	1	4	7	2	-	-	2
13	Veterinary Pathology	3	2	5	-	-	2	1
14	Veterinary Pharmacology and Toxicology	4	4	2	-	-	1	1
15	Veterinary Physiology	-	3	-	1	-	-	1
16	Veterinary Surgery and Radiology	8	8	6	-	1	-	1
17	Veterinary Wildlife	-	-	2	-	-	-	-
<b>Total (A)</b>		<b>67</b>	<b>60</b>	<b>73</b>	<b>13</b>	<b>9</b>	<b>10</b>	<b>20</b>
<b>VETERINARY COLLEGE, BIDAR</b>								
1	Livestock Production & Management	-	2	6	-	-	-	-
2	Vety Animal Husbandry & Extension	-	2	-	-	-	-	-
3	Veterinary Gynaecology & Obstetrics	-	3	5	-	1	1	-
4	Veterinary Medicine	2	2	6	-	-	1	1
5	Veterinary Microbiology	2	1	-	-	-	-	2
6	Veterinary Physiology	1	-	3	-	-	-	-
7	Veterinary Pathology	-	1	-	-	-	-	-
8	Veterinary Surgery & Radiology	2	10	4	-	2	3	-
9	Animal Nutrition	-	-	-	-	-	-	1
<b>Total (B)</b>		<b>7</b>	<b>21</b>	<b>24</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>4</b>

<b>VETERINARY COLLEGE, SHIVAMOGGA</b>								
1	Veterinary Anatomy	-	-	1	-	-	-	-
2	Veterinary Biochemistry	-	1	-	-	-	-	-
3	VPT	2	-	2	-	-	-	-
4	Veterinary Microbiology	-	1	-	-	-	-	-
5	Veterinary Pathology	6	3	2	-	-	-	-
6	Veterinary Public Health & Epidemiology	2	2	-	-	-	-	-
7	Animal Nutrition	5	3	1	-	-	-	-
8	Veterinary Medicine	6	1	1	-	-	-	-
9	VAHEE	1	-	4	-	-	-	-
10	Animal Genetics & Breeding	1	-	-	-	-	-	-
<b>Total (C)</b>		<b>23</b>	<b>11</b>	<b>11</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>VETERINARY COLLEGE, HASSAN</b>								
1	Animal Nutrition	-	2	2	-	-	-	-
2	Livestock Production & Management	-	1	4	-	-	-	-
3	Veterinary Pathology	3	5	3	-	-	-	-
4	Veterinary Surgery & Radiology	3	5	5	-	-	-	-
5	Animal Genetics & Breeding	-	-	1	-	-	-	-
6	Veterinary Pharmacology & Toxicology	1	-	-	-	-	-	-
<b>Total (D)</b>		<b>7</b>	<b>13</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>DAIRY SCIENCE COLLEGE, BENGALURU</b>								
1	Dairy Technology	4	2	7	-	-	-	1
2	Dairy Microbiology	1	3	4	-	-	-	-
3	Dairy Chemistry	-	1	5	-	-	-	1
4	Master of Business Administration (Food Business)	31	24	7	-	-	-	-
<b>Total (E)</b>		<b>36</b>	<b>30</b>	<b>23</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>COLLEGE OF FISHERIES, MANGALURU</b>								
1	Aquaculture	2	4	4	-	2		2
2	Fisheries Resources and Management	6	3	10	2	1	1	-
3	Aquatic Environment Management	6	1	5	3	1	1	2
4	Aquatic Animal Health Management	2	3	4	-	2	1	1
5	Fish Processing Technology	3	2	3	1	-	-	1
6	Fisheries Engineering and Technology	4	-	3	-	-	-	-
<b>Total (F)</b>		<b>23</b>	<b>13</b>	<b>29</b>	<b>6</b>	<b>6</b>	<b>3</b>	<b>6</b>
<b>Grand Total</b>		<b>163</b>	<b>148</b>	<b>175</b>	<b>19</b>	<b>18</b>	<b>18</b>	<b>32</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	6	5	5	5	-	<b>21</b>
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	2	1	-	-	-	<b>3</b>
5	Veterinary College, Gadag	3	1	-	-	-	<b>4</b>
<b>Merit Scholarship</b>							
1	Veterinary College, Bengaluru	2	2	2	2	-	<b>8</b>
2	Veterinary College, Bidar	2	-	2	2	-	<b>6</b>
3	Veterinary College, Shivamogga	2	2	2	2	-	<b>8</b>
4	Veterinary College, Hassan	2	2	2	2	-	<b>8</b>
5	Veterinary College, Gadag	2	2	2	2	-	<b>8</b>
<b>National Talent Scholarship</b>							
1	Veterinary College, Bengaluru	10	3	5	1	-	<b>19</b>
2	Veterinary College, Bidar	11	11	6	5	6	<b>39</b>
3	Veterinary College, Shivamogga	9	3	8	-	-	<b>20</b>
4	Veterinary College, Hassan	15	12	10	7	-	<b>44</b>
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Student Aid Fund</b>							
1	Veterinary College, Bengaluru	19	20	14	9	-	<b>62</b>
2	Veterinary College, Bidar	-	-	-	-	-	-
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	12	11	10	8	12	<b>53</b>
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>BCM Scholarship</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	34	32	25	33	-	<b>124</b>
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>GoI Scholarship</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	8	10	8	9	-	<b>35</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	5	7	3	4	-	<b>19</b>
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Backward Class Welfare Department</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	25	24	31	27	15	<b>122</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Social Welfare Department</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	8	5	6	2	3	<b>24</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Tribal Welfare Department</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	2	-	2	2	-	<b>6</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Department of Agriculture (KSDA)</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	22	19	24	26	2	<b>93</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Department of Karnataka Building and Other Constructions Workers</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	2	2	2	3	2	<b>11</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Post Metric Scholarship for Students with Disabilities</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	1	-	-	-	<b>1</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Metric cum Means Scholarship for Professional &amp; Technical Courses</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	1	-	-	-	-	<b>1</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-

<b>Professional Education Scholarship from Danish Educational Trust</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	2	2	1	-	-	<b>5</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Scholarship by MS Ramaiah Trust</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	1	-	-	-	-	<b>1</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Karnataka State Teachers Benefit Fund</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	18	18	06	04	-	<b>46</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Sujnananidhi Scholarship – Shri. Kshetra Dharmasthala Rural Development Project</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	8	11	13	9	-	<b>41</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>Karnataka Labour Welfare Board</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	1	2	-	<b>3</b>
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	-	-	-	-
<b>State Scholarship (SSP)</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	50	41	50	50	2	<b>193</b>
<b>NSP Scholarship</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	-	-	1	-	-	<b>1</b>
<b>Raith Vidhyinidi Scholarship (KSDA)</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
5	Veterinary College, Gadag	25	14	19	20	1	<b>79</b>
<b>Total</b>		<b>308</b>	<b>261</b>	<b>260</b>	<b>236</b>	<b>43</b>	<b>1108</b>

## DAIRY SCIENCE

#	Scholarship	Year				Total
		I	II	III	IV	
<b>General Scholarship</b>						
1	Dairy Science College, Bengaluru	5	5	5	5	20
2	Dairy Science College, Kalaburagi	-	-	-	-	-
<b>Merit Scholarship</b>						
1	Dairy Science College, Bengaluru	2	2	2	2	8
2	Dairy Science College, Kalaburagi	-	-	-	-	-
<b>Total</b>		<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>28</b>

## FISHERY SCIENCE (COLLEGE OF FISHERIES, MANGALURU)

#	Scholarship / Fellowship	B.F.Sc.				Total
		I	II	III	IV	
1	Merit Scholarship	2	2	2	2	8
2	BCM Scholarship	13	17	14	24	68
3	NTS-ICAR	-	-	1	4	5
4	EBL – GOI Scholarship	20	23	15	11	69
5	Internship – ICAR	-	-	-	40	40
6	In plant Training	-	-	-	40	40
7	Minority Scholarship	-	1	1	-	2
8	MHRD Scholarship	-	-	-	1	1
<b>Total</b>		<b>35</b>	<b>43</b>	<b>33</b>	<b>122</b>	<b>233</b>

## ABSTRACT OF UNDERGRADUATE SCHOLARSHIP

#	Scholarship	VCH	VCB	VCS	HVC	VCG	DSCH	DSCK	FCM	Total
1	General Scholarship	21	-	-	3	4	20	-	-	48
2	Merit Scholarship	8	6	8	8	8	8	-	8	54
3	National Talent Scholarship	19	39	20	44	-	-	-	-	122
4	Student Aid Fund	62	-	-	-	-	-	-	-	62
5	SC/ST GoI Scholarship	-	53	-	-	-	-	-	-	53
6	BCM Scholarship	-	-	-	124	-	-	-	68	192
7	GoI Scholarship	-	-	-	35	-	-	-	-	35
8	Teachers Scholarship	-	-	-	19	-	-	-	-	19
9	Backward Class Welfare Department	-	-	122	-	-	-	-	-	122
10	Social Welfare Department	-	-	24	-	-	-	-	-	24
11	Tribal Welfare Department	-	-	6	-	-	-	-	-	6
12	Department of Agriculture (KSDA)	-	-	93	-	-	-	-	-	93
13	Department of Karnataka Building and Other Constructions Workers	-	-	11	-	-	-	-	-	11
14	Post Metric Scholarship for Students with Disabilities	-	-	1	-	-	-	-	-	1
15	Metric cum Means Scholarship for Professional & Technical Courses	-	-	1	-	-	-	-	-	1
16	Professional Education Scholarship from Danish Educational Trust	-	-	5	-	-	-	-	-	5

17	Scholarship by MS Ramaiah Trust	-	-	1	-	-	-	-	-	<b>1</b>
18	Karnataka State Teachers Benefit Fund	-	-	46	-	-	-	-	-	<b>46</b>
19	Sujnananidhi Scholarship – Shri. Kshetra Dharmasthala Rural Development Project	-	-	41	-	-	-	-	-	<b>41</b>
20	Karnataka Labour Welfare Board	-	-	3	-	-	-	-	-	<b>3</b>
21	State Scholarship (SSP)	-	-	-	-	193	-	-	-	<b>193</b>
22	NSP Scholarship	-	-	-	-	1	-	-	-	<b>1</b>
23	Raith Vidhynidi Scholarship (KSDA)	-	-	-	-	79	-	-	-	<b>79</b>
24	NTS-ICAR	-	-	-	-	-	-	-	5	<b>5</b>
25	EBL – GOI Scholarship	-	-	-	-	-	-	-	69	<b>69</b>
26	Internship – ICAR	-	-	-	-	-	-	-	40	<b>40</b>
27	Inplant Training	-	-	-	-	-	-	-	40	<b>40</b>
28	Minority Scholarship	-	-	-	-	-	-	-	2	<b>2</b>
29	MHRD Scholarship	-	-	-	-	-	-	-	1	<b>1</b>
<b>Total</b>		<b>110</b>	<b>98</b>	<b>382</b>	<b>233</b>	<b>285</b>	<b>28</b>	<b>0</b>	<b>233</b>	<b>1369</b>



POSTGRADUATE

ANIMAL AND VETERINARY SCIENCES

#	Scholarship	MVSc.		Ph.D			Total
		I	II	I	II	III	
<b>Merit Scholarship</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	=
2	Veterinary College, Bidar	2	4	-	-	-	6
3	Veterinary College, Shivamogga	3	5	-	-	-	8
4	Veterinary College, Hassan	3	3	-	-	-	6
<b>Student Aid Fund</b>							
1	Veterinary College, Bengaluru	5	1	-	-	-	6
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	-	2	-	-	-	2
<b>National Talent Scholarship</b>							
1	Veterinary College, Bengaluru	8	9	-	-	-	17
2	Veterinary College, Bidar	-	2	-	-	-	2
3	Veterinary College, Shivamogga	1	2	-	-	-	3
4	Veterinary College, Hassan	-	-	-	-	-	-
<b>SC/ST Govt. of India Scholarship</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	2	6	-	-	-	8
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	3	5	-	-	-	8
<b>University Resident Merit Scholarship</b>							
1	Veterinary College, Bengaluru	10	11	-	2	1	24
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	-	-	-	-	-	-
4	Veterinary College, Hassan	-	-	-	-	-	-
<b>Backward Classes Welfare Department</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	8	-	-	-	-	8
4	Veterinary College, Hassan	-	-	-	-	-	-
<b>Social Welfare Department</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	2	-	-	-	-	2
4	Veterinary College, Hassan	-	-	-	-	-	-

<b>Department of Agriculture (KSDA)</b>							
1	Veterinary College, Bengaluru	-	-	-	-	-	-
2	Veterinary College, Bidar	-	-	-	-	-	-
3	Veterinary College, Shivamogga	5	-	-	-	-	5
4	Veterinary College, Hassan	-	-	-	-	-	-
<b>Total</b>		<b>52</b>	<b>50</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>105</b>

### DAIRY SCIENCE

#	Scholarship	M.Tech.		Ph.D			Total
		I	II	I	II	III	
<b>Dairy Science College, Bengaluru</b>							
1	Merit Scholarship	2	3	-	-	1	6
<b>Total</b>		<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>6</b>

### FISHERY SCIENCE

#	Scholarship / Fellowship	M.F.Sc.		Ph.D.			Total
		I	II	I	II	III	
1	Merit Scholarship	2	2	-	-	1	5
2	EBL – GoI Scholarship	4	3	-	-	-	7
3	BCM Scholarship	3	5	3	2	-	13
4	NTS - ICAR	5	2	-	-	-	7
5	Other State Scholarship	-	-	-	1	1	2
<b>Total</b>		<b>14</b>	<b>12</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>34</b>

### ABSTRACT OF POSTGRADUATE (MASTERS & DOCTORAL) SCHOLARSHIP

#	Scholarship	VCH	VCB	VCS	HVC	DSCH	FCM	Total
1	Merit Scholarship	-	6	8	6	6	5	31
2	Student Aid Fund	6	-	-	-	-	-	6
3	Government of India Scholarship	-	-	-	2	-	-	2
4	National Talent Scholarship	17	2	3	-	-	7	29
5	SC/ST Govt. of India Scholarship	-	8	-	-	-	-	8
6	BCM Scholarship	-	-	-	8	-	13	21
7	University Resident Merit Scholarship	24	-	-	-	-	-	24
8	Backward Classes Welfare Department	-	-	8	-	-	-	8
9	Social Welfare Department	-	-	2	-	-	-	2
10	Department of Agriculture (KSDA)	-	-	5	-	-	-	5
11	EBL – GoI Scholarship	-	-	-	-	-	7	7
12	Other State Scholarship	-	-	-	-	-	2	2
<b>Total</b>		<b>47</b>	<b>16</b>	<b>26</b>	<b>16</b>	<b>6</b>	<b>34</b>	<b>145</b>

**(ii) UG Gold Medals Awarded:**

#	ID. No.	Name	Medals/Awards	OGPA
<b>VETERINARY COLLEGE, BENGALURU</b>				
<b>For the year - 2019-20</b>				
1	VHK-1553	Pooja D	1. University Gold Medal	8.354
<b>Excellence in Cultural Activities</b>				
1	VHK-1515	Chandrashekhar D	1. State Bank of Hyderabad Gold Medal for excellence in Cultural Activities	7.187
<b>For the year - 2020-21</b>				
1	VHK-1623	Kiran Darur	1. University Gold Medal	8.488
			2. Dr. R.D.Nanjaiah Memorial Gold Medal (Vet. Anat, Micro. & Pub. Hel.)	8.476
			3. Dr. R.D.Nanjaiah Memorial Gold Medal-(O)	8.488
			4. Sri. T.K. Gurusiddappa Memorial Gold Medal - (O)	8.488
			5. The Lion's International District 304-S Gold Medal - (O)	8.488
			6. Sri.R.Gundu Rao - F.M.Khan Gold Medal - (O)	8.488
			7. Karnataka Veterinary Association Gold Medal - (O)	8.488
			8. Smt. B.Hosahalli Gullamma Gold Medal-(O)	8.488
			9. Praveen Kumar G.L. Memorial Gold Medal – (O)	8.488
2	VHK-1626	Malavika J	1. Dr. R.F. Patil Memorial Gold Medal – (Vet. Micro.)	8.760
			2. Dr. K.Y. Jaganath Gold Medal - (Clinical Subjects)	8.997
			3. Dr. D.M. Karegowda Memorial Gold Medal-(Clinical Vet. Medicine Subject)	9.020
			4. D.N. Vasudeva Mudaliar Gold Medal - (Clinical Subjects)	8.997
3	VHK-1662	Thanmaykumar R	1. Dr. B.L.Pradeep Memorial Gold Medal - (Gyn. & Obst.)	9.250
4	VHK-1616	Devaraj C K	1. Dr.B.L.Pradeep Memorial – (Vet. Clinical)	9.000
<b>Excellence in Cultural Activities</b>				
1	VHK-1656	Sugama S Nayak	1. State Bank of Hyderabad Gold Medal for excelled in Cultural Activities	8.00
<b>VETERINARY COLLEGE, BIDAR</b>				
<b>For the year – 2018-19</b>				
1	VBK-1403	Anil	1. State Bank of Hyderabad Gold Medal (Agri. Quota)	7.756
<b>For the year – 2019-20</b>				
1	VBK-1564	Vijaya Mahantesh S K	1. University Gold Medal	8.406
			2. Sri. K.R.Alur Memorial Gold Medal - (Anatomy)	8.181
			3. Dr. R.V.Patil Memorial Gold Medal-(O)	8.406

2	VBK-1539	Preeti	1. Prof. S.M. Jayadevappa Gold Medal	9.167
3	VBK-1521	Kiran K S	1. Dr. Vittal Golbavi Memorial Gold Medal - (Vet. Clinical)	8.607
4	VBK-1512	B Aravinda	1. State Bank of Hyderabad Gold Medal (Agri. Quota)	7.796
<b>For the year 2020-21</b>				
1	VBK-1632	Priyanka Dalawai	1. University Gold Medal 2. Sri. K.R.Alur Memorial Gold Medal - (Anatomy) 3. Dr.R.V.Patil Memorial Gold Medal- (O) 4. Dr. Vittal Golbavi Memorial Gold Medal - (Vet. Clinical)	7.750 7.530 7.750 8.217
2	VBK-1640	Santosh	1. Prof. S.M. Jayadevappa Gold Medal	9.320
3	VBK-1630	Padmashree	1. State Bank of Hyderabad Gold Medal (Agri. Quota)	7.505

### VETERINARY COLLEGE, SHIVAMOGGA

#### For the year – 2019-20

1	VSK-1518	Kanika Yadav	1. University Gold Medal 2. D.N.Vasudeva Mudaliar Gold Medal - (Clinical Subjects) 3. Dr. R.D. Nanjiah Memorial Gold Medal-(O) 4. Dr. B.L.Pradeep Memorial Gold Medal - (Gyn. & Obst.) 5. Dr. B.L.Pradeep Memorial – (Vet. Clinical) 6. Sri. T.K. Gurusiddappa Memorial Gold Medal - (O) 7. The Lion’s International District 304-S Gold Medal - (O) 8. Sri.R.Gundu Rao - F.M.Khan Gold Medal - (O) 9. Dr.K.Y.Jaganath Gold Medal - (Clinical Subjects) 10. Karnataka Veterinary Association Gold Medal - (O)  11. Smt. B.Hosahalli Gullamma Gold Medal-(O) 12. Praveen Kumar G.L. Memorial Gold Medal – (O) 13. Celestial’s 2009-14 Gold Medal	8.618 8.795 8.618 8.960 8.637 8.618 8.618 8.618 8.618 8.795 8.618 8.618 8.618
2	VSK-1520	Likhitha B N	1. Dr.R.D.Nanjiah Memorial Gold Medal (Vet. Anat, Micro. & Pub. Hel.) 2. Sitaram Jindal Foundation Gold Medal - (Vet. Physiology & Biochemistry)	8.605 8.936
3	VSK-1552	Urmila S	1. Dr. D.M.Karegowda Memorial Gold Medal-(Clinical Vet. Medicine Subject)	9.254

<b>For the year – 2020-21</b>				
1	VSK-1657	Rajath M S	1. University Gold Medal 2. Smt & Sri. M.M.Wadiyar – (Animal Science) 3. Sri Chanila Shankara Bhat Memorial Gold Medal (Animal & Poultry Sci.) 4. Sitaram Jindal Foundation Gold Medal - (Vet. Animal Husbandry) 5. Celestial's 2009-14 Gold Medal 6. Sitaram Jindal Foundation Gold Medal - (Vet. Physiology & Biochemistry)	8.433 9.101 8.595 8.770 8.433 8.595
<b>VETERINARY COLLEGE, HASSAN</b>				
<b>For the year – 2019-20</b>				
1	HVK-1540	Nithin B	1. University Gold Medal 2. Dr. R.F.Patil Memorial Gold Medal – (Vet. Micro.) 3. Smt & Sri. M.M.Wadiyar - (Animal Science) 4. Dr.Syed Mohiyuddin Memorial Gold Medal (Pathology) 5. Sri Chanila Shankara Bhat Memorial Gold Medal (Animal & Poultry Sci.) 6. Sitaram Jindal Foundation Gold Medal - (Vet. Animal Husbandry)	8.581 9.011 8.703 9.012 8.703 9.189
2	HVK-1559	Sachin Kumar N	1. Prof. K. Jayakumar Memorial Gold Medal (Highest OGPA under Agriculturist Quota)	8.499
<b>Excellence in Sports Activities</b>				
1	HVK-1524	Jayashri	1. Dr. Chandrashekar Rao Gold Medal for excellence in Sports	6.877
<b>For the year – 2020-21</b>				
1	HVK-1618	Kaveri N E	1. University Gold Medal 2. Dr. Syed Mohiyuddin Memorial Gold Medal (Pathology) 3. Prof. K. Jayakumar Memorial Gold Medal (Highest OGPA under Agriculturist Quota)	8.394 9.720 8.394
<b>Excellence in Sports Activities</b>				
1	HVK-1666	Vivekgowda D P	1. Dr. Chandrashekar Rao Gold Medal for excellence in Sports	7.575
<b>DAIRY SCIENCE COLLEGE, BENGALURU</b>				
<b>For the year – 2019-20</b>				
1	DHK-1623	Mathangi G	1. University Gold Medal 2. Smt. Kantamma Puttamurthy Memorial Gold Medal - (Highest CGPA in Dairy Technology) 3. Dr. (Mrs.) Krishnavenamma & Smt. Kaveramma Gold Medal (Dairy. Micro) 4. Impression Dairy Co-Batch of 1993-97 Gold Medal - (O) 5. Dairy Science College Bangalore Silver Jubilee Gold Medal - (O)	9.02 9.19 9.06 9.02 9.02

<b>For the year – 2020-21</b>				
1	DHK-1706	Ashwini K V	1. University Gold Medal 2. Dr. (Mrs.) Krishnavenamma & Smt. Kaveramma Gold Medal (Dairy. Micro) 3. Impression Dairy Co-Batch of 1993-97 Gold Medal - (O) 4. Dairy Science College Bangalore Silver Jubilee Gold Medal - (O)	8.78 8.62 8.78 8.78
2	DHK-1710	Chitrasena K V	1. Smt. Kantamma W/o Puttamurthy Memorial Gold Medal - (Highest CGPA in Dairy Technology)	8.84
<b>DAIRY SCIENCE COLLEGE, KALABURAGI</b>				
<b>For the year - 2019-20</b>				
1	DGK-1604	Akash	1. University Gold Medal	8.83
<b>For the year - 2020-21</b>				
1	DGK-1713	Nitheesh Kumar K C	1. University Gold Medal	8.73
<b>COLLEGE OF FISHERIES, MANGALURU</b>				
<b>For the year - 2019-20</b>				
1	FMK-1623	Namrith	1.University Gold Medal - (O) 2.Mr.R.N.Ramchandra Memorial Gold Medal-(O) 3.Dr.K.V.Devaraj Gold Medal-(O)	8.53 8.53 8.53
<b>For the year – 2020-21</b>				
1	FMK-1735	Shruthy R Nair	1.University Gold Medal - (O) 2.Mr.R.N.Ramchandra Memorial Gold Medal-(O) 3.Dr.K.V.Devaraj Gold Medal-(O)	8.93 8.93 8.33

**(iii) PG Gold Medals Awarded:**

**a. Masters Degree**

#	ID. No.	Name	Department	Medals/Awards	OGPA
<b>VETERINARY COLLEGE, BENGALURU</b>					
<b>For the year 2018-19</b>					
1	MVHK-1717	Nataraja D	Poultry Science	1. University Gold Medal 2. Dr. B.V.Rao, Venkateshwara Hatcheries Ltd, Gold Medal 3. Mr. H.Sanjeevappa Gold Medal 4. Shri. John Sebastian Gold Medal	9.38 9.38 9.38 9.38
<b>For the year 2019-20</b>					
1	MVHK-1806	Deepthi V	Livestock Production and Management	1. University Gold Medal	9.33
2	MVHK-1819	Vishwas K M	Poultry Science	1. University Gold Medal 2. Dr. B.V.Rao, Venkateshwara Hatcheries Ltd, Gold Medal	9.55 9.55
3	MVHK-1820	Chiranth J P	Veterinary Gynecology and Obstetrics	1. University Gold Medal 2. Late Smt. Saraswati W/o Grurupadappa Nagamarpalli Gold Medal	9.04 9.04

**VETERINARY COLLEGE, BIDAR**

**For the year 2018-19**

1	MVNK-1701	Hiremath Basavaraj	Livestock Production and Management	1. University Gold Medal	9.34
2	MVNK-1708	Vaijanath	Veterinary Medicine	1. University Gold Medal 2. Smt. S.K. Somya Nayakamma Gold Medal 3. Dr. Sivaramakrishnier Ramachandran & Dr. Sakkubai Paturi Ramachandran Gold Meda (Shared)	9.25 9.25 9.25
3	MVNK-1710	Gangadhar Kapse	Veterinary Physiology	1. University Gold Medal	9.23
4	MVNK-1712	Kumar Swamy	Veterinary Surgery and Radiology	1. University Gold Medal 2. Prof. S.M. Jayadevappa Gold Medal 3. Prof. B.N. Ranganath Gold Medal	9.18 9.18 9.18

**For the year 2019-20**

1	MVNK 1807	Jafar Sab	Veterinary Medicine	1. University Gold Medal 2. Smt. S.K. Somya Nayakamma Gold Medal	9.08 9.08
2	MVNK 1810	Sonabai Kondiba	Veterinary Physiology	1. University Gold Medal	9.13
	MVNK 1814	Pallavi	Veterinary Surgery and Radiology	1. University Gold Medal 2. Prof. S.M. Jayadevappa Gold Medal	9.23 9.23

**VETERINARY COLLEGE, SHIVAMOGGA**

**For the year 2018-19**

1	MVSK-1702	Vishwanatha U	Animal Nutrition	1. University Gold Medal	9.15
2	MVSK-1707	Prashantha M K	Veterinary Microbiology	1. University Gold Medal 2. Dr. R. Eswaran Memorial Gold Medal (Vet. Micro)	9.22 9.22
3	MVSK-1710	Kiran H J	Veterinary Pathology	1. University Gold Medal	9.07
4	MVSK-1714	Revansidappa Yadawad	Veterinary Pharmacology & Toxicology	1. University Gold Medal 2. Dr. P Rama Rao Gold Medal	9.04 9.04
5	MVSK-1706	Mohammed Khaleelulla	Veterinary Biochemistry	1. University Gold Medal 2. Dr. Sivarama Krishnier Ramachandran & Dr. Sakkubai Paturi Ramachandran Gold Medal (Shared)	9.25 9.25
6	MVSK-1703	Megha Raj P	Veterinary and Animal Husbandry Extension	1. University Gold Medal	9.14



<b>For the year 2019-20</b>					
1	MVSK-1804	Pavithra B S	Veterinary Microbiology	1. University Gold Medal 2. Dr. R. Eswaran Memorial Gold Medal (Vet. Micro) 3. Dr. Sivaramakrishnier Ramachandran & Dr. Sakkubai Paturi Ramachandran Gold Medal	9.46 9.46 9.46
2	MVSK-1806	Sunil Kumar B S	Veterinary Pathology	1. University Gold Medal	9.34
3	MVSK-1807	Manikanth C L	Veterinary Pharmacology & Toxicology	1. University Gold Medal 2. Dr. P Rama Rao Gold Medal	9.31 9.31
4	MVSK-1802	Yellappa K	VAHEE	1. University Gold Medal	9.02
<b>VETERINARY COLLEGE, HASSAN</b>					
<b>For the year 2019-20</b>					
1	MVHK-1801	Roopa C	Animal Nutrition	1. University Gold Medal	9.19
<b>DAIRY SCIENCE COLLEGE, BENGALURU</b>					
<b>For the year 2018-19</b>					
1	MDK-1702	M Archana	Dairy Chemistry	1. University Gold Medal	9.17
2	MDK-1703	Thupakula Saraswathi	Dairy Microbiology	1. University Gold Medal	9.00
3	MDK-1706	Himanshu Kumar Singh	Dairy Technology	1. University Gold Medal	9.23
<b>For the year 2019-20</b>					
1	MDK-1812	Nandini V	Dairy Technology	1. University Gold Medal	9.23
2	MDK-1808	Pasagadi Sushmitha	Dairy Microbiology	1. University Gold Medal	9.22
<b>COLLEGE OF FISHERIES, MANGALURU</b>					
<b>For the year 2018-19</b>					
1	MFK-1716	Kushala k b	Fisheries Microbiology	1. University Gold Medal 2. Prof. H.P.C. Shetty Gold Medal 3. Prof. P. Tauro Gold Medal	9.15 9.15 9.15
2	MFK-1715	Uzair shafiq	Fish Processing Technology	1. University Gold Medal	9.07
3	MFK-1703	Detty nebu	Aquaculture	1. University Gold Medal	9.11
<b>For the year 2019-20</b>					
1	MFK-1805	Dheeraj S B	Aquatic Animal Health Management	1. University Gold Medal 2. Prof. H.P.C. Shetty Gold Medal 3. Prof. P. Tauro Gold Medal	9.33 9.33 9.33
2	MFK-1816	Suyani Nitin Kanji	Fisheries Resources and Management	1. University Gold Medal	9.02



**b. Doctoral Degree**

#	ID. No.	Name	Department	Medals/Awards	OGPA
<b>VETERINARY COLLEGE, BENGALURU</b>					
<b>For the year 2018-19</b>					
1	DVHK-1628	Chetan Kumar G K	Veterinary Medicine	1. University Gold Medal	9.24
2	DVHK-1617	Shantveer Biradar	Veterinary Parasitology	1. University Gold Medal	9.13
3	DVHK-1618	Akshata S Angadi	Veterinary Pathology	1. University Gold Medal	9.14
<b>For the year 2019-20</b>					
1	DVHK-1711	Saritha N S	Veterinary Microbiology	1. University Gold Medal	9.01
2	DVHK-1710	Satheesha S P	Veterinary Medicine	1. University Gold Medal	9.05
3	DVHK-1713	Veena M	Veterinary Parasitology	1. University Gold Medal	9.36
4	DVHK-1701	Satheesha G M	Animal Genetics & Breeding	1. University Gold Medal	9.22
5	DVHK-1702	Chethan K P	Animal Nutrition	1. University Gold Medal	9.40
6	DVHK-1703	Sreedhara J N	Poultry Science	1. University Gold Medal 2. Mr. H. Sanjeevappa Gold Medal 3. Shri. John Sebastian Gold Medal	9.26 9.26 9.26
<b>VETERINARY COLLEGE, BIDAR</b>					
<b>For the year 2018-19</b>					
1	DVNK-1603	Arun Kharate	Veterinary Microbiology	1. University Gold Medal	9.34
<b>For the year 2019-20</b>					
1	DVNK-1704	Jagan Mohan Reddy K	Veterinary Surgery and Radiology	1. University Gold Medal	9.35
<b>DAIRY SCIENCE COLLEGE, BENGALURU</b>					
<b>For the year 2018-19</b>					
1	DDK-1601	Devaraja H C	Dairy Technology	1. University Gold Medal	9.18
2	DDK-1602	Shivalkar Yadav K	Dairy Microbiology	1. University Gold Medal	9.40
<b>For the year 2019-20</b>					
1	DDK-1703	Kesapuram Neela Saisreenivas	Dairy Technology	1. University Gold Medal	9.37
2	DDK-1702	Viswanatha Angadi	Dairy Microbiology	1. University Gold Medal	9.48
<b>COLLEGE OF FISHERIES, MANGALURU</b>					
<b>For the year 2019-20</b>					
1	DFK-1704	Nithin M S	Fisheries Microbiology	1. University Gold Medal	9.28

## 5) Academic Research (Postgraduate Research)

Thesis accepted during the year 2022-23 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	Preparation of Anatomical Museum Specimens By Using Commercial Resins and Liquid Silicone	Venkatesh D. Walikar	Dr. Girish M H Veterinary Anatomy and Histology
2	Evaluation of In-Vitro Anthelmintic Activity of Curcumin and Piperine Nanoparticles	Madhu R	Dr. Pavithra B H Veterinary Pharmacology & Toxicology
3	Nucleoprotein and Glycoprotein Gene based Molecular Characterization of Rabies Virus In Different Species of Animals In India	Tilak Chandan S	Dr. Shrikrishna Isloor Veterinary Microbiology
4	Assessment of Immune Responses To Rabies Vaccination In Free Ranging Dogs In Bengaluru	Vinay C P	Dr. Sharada R. Veterinary Microbiology
5	Studies On Bacterial Flora In Bovine And Bubaline Semen of Breeding Bulls In Karnataka	Nithyananda V C	Dr. Shivaraj Veterinary Microbiology
6	Evaluation of Protective Efficacy of Formalin Inactivated Kyasanur Forest Disease Vaccine In Mice	Ullas Gowda	Dr. B M Chandranaik Veterinary Microbiology
7	Assessment of Antimicrobial Resistance In <i>Escherichia Coli</i> and <i>Salmonella</i> Isolated from Integrated Broiler Chicken Farms	Addakal Anandraj Hannah Joannas	Dr. Sharada R Veterinary Microbiology
8	Development of Dry Lamp as Point of Care Diagnostics For The Diagnosis of Bovine Theileriosis	Sindhoora Divakar	Dr. Dhanalakshmi H Veterinary Parasitology
9	Synthesis and Evaluation of Plant based Silver Nanoparticles on Muscid Flies	Jagadish	Dr. Mamatha G S Veterinary Parasitology
10	Detection and Molecular Characterization of <i>Cryptosporidium</i> species of Pigs from Bengaluru Region of Karnataka	Myreddy Nikhil	Dr. Ananda K J Veterinary Parasitology
11	Development of Loop Mediated Isothermal Amplification (Lamp) Assay For The Diagnosis of Theileriosis in Cattle	Sandeep N	Dr. Dhanalakshmi H Veterinary Parasitology
12	Studies on Vector Potentiality of Ixodid Ticks of Cattle and their Control	Yuvaraja T Y	Dr. Ananda K J Veterinary Parasitology
13	Studies on Ixodid Ticks of Dog With Special Reference To Vector Potentiality By Molecular Method	Mrs. Sunitha C R	Dr. Ananda K J Veterinary Parasitology
14	Efficacy of Antitrypanosomal Drugs Against <i>Trypanosoma Evansi</i> by in Vivo Studies	Nagaraj Jaller	Dr. Jaya Nagappa Lakkundi Veterinary Parasitology

15	Morphological and Biochemical Effects of Selective Feed Additives on the Performance of Broiler Chicken	Satish Patil	Dr. B. P Shivashankar Veterinary Pathology
16	Pathomorphological and Biochemical Evaluation of Cyclophosphamide Induced Toxicity and It's Amelioration by <i>Andrographis Paniculata</i> in Rats	Rashmi S	Dr. M. L. Satyanarayana Veterinary Pathology
17	Expression and Prognostic Value of Versican and Ki 67 In Canine Cutaneous And Subcutaneous Tumors	Manohar M Kallihal	Dr. Suguna Rao Veterinary Pathology
18	Expression of E-Cadherin and Ki 67 In Canine Cutaneous And Subcutaneous Tumors And Determination of Their Prognostic Value	Chiranjeevi R	Dr. Suguna Rao Veterinary Pathology
19	Studies On Comparative Efficacy of Intra vaginal Steroidal and Non steroidal Drugs in Estrus Synchronization in Ewes	Pujara Surappa	Dr. Narasimha Murthy Veterinary Gynaecology and Obstetrics
20	Studies On Hematobiochemical, Ultrasonographic and Histopathological Changes Associated With Canine Pyometra	Shravya B L	Dr. B. M. Ravindranath Veterinary Gynaecology and Obstetrics
21	Diagnostic Methods For Evaluation of Gonadectomy Status In Dogs	Karthik K V	Dr. Sahadev A Veterinary Gynaecology and Obstetrics
22	Studies On Occurrence and Diagnosis of Canine Brucellosis	Balangouda Mallangouda	Dr. Sahadev A Veterinary Gynaecology and Obstetrics
23	Studies On Comparative Efficacy of Intravaginal Steroidal and Non-Steroidal Drugs In Estrus Synchronization In Goats	Sanjeev Gavimath	Dr. Narasimha Murthy Veterinary Gynaecology and Obstetrics
24	Study on Serum Oxidative Status And Hematobiochemical Profile in Dogs Affected With Transmissible Venereal Tumor (Tvt)	Shaista Firdose	Dr. B. M. Ravindranath Veterinary Gynaecology and Obstetrics
25	Studies on Feline Panleukopenia in and around Bengaluru	Manikantaswamy B M	Dr. Anilkumar M C Veterinary Medicine
26	Studies on Diagnosis of Hepatic Injury in Dogs	Pooja H V	Dr. M A. Kshama Veterinary Medicine
27	Certain Studies on Ocular Diseases in Canines	Wankhede Mamta Santosh Rao	Dr. P. T. Ramesh Veterinary Medicine
28	Studies on The Influence of Pentosan Polysulfate Sodium on Osteoarthritis In Dogs	Syed Suheb	Dr. V Mahesh Veterinary Surgery and Radiology
29	Supercutaneous Plating For The Treatment of Traumatic Compound Metatarsal Bone Fracture in Bovines	Madhav Ajjodi	Dr. B.N. Nagaraja Veterinary Surgery and Radiology

30	Evaluation of Dexmedetomidine And Butorphanol as Pre-Anaesthetic With Alfaxalone Induced and Maintained Anaesthesia For Neutering In Cat	Prerana S J	Dr. K. M Srinivasmurthy Veterinary Surgery and Radiology
31	Studies on Supra-Cutaneous Plating For Repair of Traumatic Tibial Fractures In Sheep and Goats	Preetham kumar S V	Dr. B.N. Nagaraja Veterinary Surgery and Radiology
32	Standardization of Genetic Capture-Mark-Recapture Technique For Population Estimation In Asian Elephants ( <i>Elephas Maximus</i> ), Using Selected Field Sites In Karnataka	Mayur Vilas Markad	Dr. Naveen Kumar S. Wildlife
33	Comparison of Xylazine And Dexmedetomidine As Preanesthetics For Ketamine Anesthesia In Vasectomy of Leopards ( <i>Panthera Pardus Fusca</i> )	Salian Nikita Nishit	Dr. Ravi Raidurg Wildlife
34	Ultrasonographic Studies In Chelonians And Their Clinical Applications	Divya Ganesh	Dr. Ravi Raidurg Wildlife
35	Assessing The Effect of Supplementation of Jamun ( <i>Syzygiumcumini</i> ) Seeds in Giriraja Birds	P Sravani	Dr. Suma, N Animal Nutrition
36	Effect of Feeding Tamarind ( <i>Tamarindus Indica</i> ) Seed Kernel Incorporated Diet on Intake And Nutrient Utilization In Large White Yorkshire Piglets	Girish s	Dr. Suma, N Animal Nutrition
37	Comparative Evaluation of The Efficiency of Utilization of Finger Millet ( <i>Eleusine Coracana</i> ) Straw and Maize ( <i>Zea Mays</i> ) Cob Based Extruded Complete Feed In Mandya Lambs	Sachin S S	Dr. Prabhu T M Animal Nutrition
38	Comparative Evaluation of the Efficiency of Utilization of Finger Millet ( <i>Eleusine Coracana</i> ) Straw and Areca Sheath ( <i>Areca Catechu</i> ) Based Extruded Complete Feed In Mandya Lambs.	Sanjay G C	Dr. Umashankara B C Animal Nutrition
39	Evaluation of Commercial Dog Foods by In Vitro and In Vivo Digestibility Techniques	Sachin M	Dr. Madhusudhan Animal Nutrition
40	Comparative Genetic Characterization of <i>Prolactin</i> Gene Between Giriraja and Indigenous Chicken	Ajeet Singh	Dr. Naveen Kumar S. Animal Genetic and Breeding
41	Effect of Different Sulfated Polysaccharides (Seaweed Extracts) on Growth Performance, Carcass Characteristics and Gut Health In Broilers	Anitha Sriram C. R.	Dr. Malathi V Poultry Science

42	Effect of Supplementation of Fibrolytic Enzymes on Growth Performance of Commercial Broilers	Sangamesh Angadi	Dr. Malathi V Poultry Science
43	Determination of Beneficial Effects of Yeast Cell Wall and Its Fortification With Butyric Acid In Broilers Fed Diet Contaminated With Fusarium Toxins	Karthik S	Dr. Malathi V Poultry Science
44	In Vitro Evaluation of Laboratory Silages of Super Napier and Maize Fodders With Stylosanthes Hamata and Melia Dubia	Abhishek Mahadev Jolapure	Dr. Mahadevappa D Gouri Livestock Production and Management
45	Comparative Assessment of Welfare Status of Kenguri Sheep Under Intensive and Extensive Systems of Rearing	Kanakaraja	Dr. Mahadevappa D Gouri Livestock Production and Management
46	Study on Efficacy of Herbal Teat Disinfectants In Subclinical Mastitis In Dairy Cattle	Ravishankar	Dr. Vivek M Patil Livestock Production and Management
47	Approaches to Improve the Welfare of Dairy Cows through Alleviation of Lameness	Jettaboina Sai Kumar	Dr. S B Prasanna Livestock Production and Management
48	Performance of Dairy Cows Fed With Feed Additives Containing Probiotics, Enzymes and Organic Acids	Md. Masood Khan Durrani	Dr. S B Prasanna Livestock Production and Management
49	Evaluation of Body Condition Score and Basic Behavioural Patterns In Lactating Dairy Buffaloes In North Karnataka	Umesh Mirje	Dr. Mahadevappa D Gouri Livestock Production and Management
50	Amelioration of Heat Stress With Modified Microclimate In Lactating Dairy Cattle	Raghavendra G	Dr. Mahadevappa D Gouri Livestock Production and Management
51	Understanding the Shedding Pattern Of Antimicrobial Resistant <i>Escherichia Coli</i> In Goat Meat Production System: A Longitudinal Study	Bharath R	Dr. S. Wilfred Ruban Livestock Products Technology
52	Effect of Age on Carcass and Meat Quality Characteristics In Hassan Sheep	Shanthesha K M	Dr. S. Wilfred Ruban Livestock Products Technology
53	Development of Novel Isothermal Nucleic Acid Based Amplification Assay For Rapid and Visual Detection of Pork	Vinayakumar N D	Dr. Kiran M Livestock Products Technology
54	Molecular Detection of Common Bacteria and Their Antimicrobial Resistant Gene In Filth Flies From Retail Meat Outlets	Manoj M	Dr. S. Wilfred Ruban Livestock Products Technology
55	Khillar Cattle of Karnataka – A Descriptive Study	Rajashekhar Karjol	Dr. V. Jagadeeshwari VAHEE



56	A Critical Study on Effect of Flood on Livestock Production in Northern Districts Of Karnataka	Anitha M	Dr. V. Jagadeeshwari Veterinary and Animal Husbandry Extension Education
57	A Critical Analysis of Performance, Occupational Stress And Job Satisfaction of Veterinary Officers of Karnataka	Abhilash M R	Dr. Manjunatha L Veterinary and Animal Husbandry Extension Education
<b>VETERINARY COLLEGE, BIDAR</b>			
1	Diagnosis and Therapeutic Management of Anaemia in Goats	Annarao	Dr. Vivek R Kasaralika Veterinary Medicine
2	Clinico-Pathological and Molecular Diagnosis of Lumpy Skin Disease In Cattle	Shilpa	Dr. Sandeep Halmandge Veterinary Medicine
3	Studies On Mineral Profile Mapping and Comparative Evaluation of Mineral Supplementation In Lactating Dairy Cows in Bidar District	Somashekhar Bheemanagouda	Dr. Vivek R Kasaralika Veterinary Medicine
4	Diagnosis and Therapeutic Management of Trypanosomiasis In Donkeys	Mallikarjun Sannadani	Dr. N A Patil Veterinary Medicine
5	Efficacy Of GnRH Treatment In Repeat Breeder Buffaloes	Chiranjeevi B R	Dr. M K Tandle VGO
6	Prevalence and Zoonotic Importance of Brucellosis In Goats In and Around Bidar	Bheemreddy	Dr. M K Tandle Veterinary Gynaecology & Obstetrics
7	Efficacy of Maize and Safflower Oil Supplementation on Estrus Induction In Postpartum Sheep	Meshram Viraj Sudhakar	Dr. R. G Bijurkar Veterinary Gynaecology & Obstetrics
8	Comparative Efficacy of PMSG and Estradiol 17-B Supplementation on <i>In Vitro</i> Maturation of Goat Oocytes	Savita Rathod	Dr. R. G Bijurkar Veterinary Gynaecology & Obstetrics
9	Evaluation of Melatonin and Taurine Supplementation On <i>In Vitro</i> Maturation of Goat Oocyte	Kartik	Dr. R. G Bijurkar Veterinary Gynaecology & Obstetrics
10	Prevalence and Zoonotic Importance Of brucellosis In Cattle In And around Bidar	Shantveer Gopa	Dr. M K Tandle Veterinary Gynaecology & Obstetrics
11	Comparative Evaluation of Guaifenesin Administered Tiletamine Zolazepam and Ketamine Midazolam Induction Boluses Under Isoflurane Anaesthesia For Various Surgeries In Cattle	Shivasharnappa U	Dr. Venkatgiri Veterinary Surgery and Radiology
12	Ultrasonographic and Radiographic Evaluation of Gastrointestinal Affections in Dogs and Their Surgical treatment	Omdarshan K P	Dr. Bhagavanthappa B Veterinary Surgery and Radiology
13	Effect of Dietary Supplementation of Quercetin and Lycopene on Haemato-Biochemical Profile and Growth Performance In Broilers	Ravikanth	Dr. Shrikant Kulkarni Veterinary Physiology & Biochemistry

14	Effect of Ashwagandha and Citrus Bioflavonoid Supplementation on Hemato-Biochemical Profile and Growth Performance in Broilers	Sarita	Dr. Srinivas Reddy Bellur Veterinary Physiology & Biochemistry
15	Effect of Dietary Betaine Supplementation on Physio-Biochemical Changes and Milk Yield in Deoni Cows During Summer	Indrale Utpala	Dr. Shrikant Kulkarni Veterinary Physiology & Biochemistry
16	Appraisal of The Management Practices of Indigenous Cattle In Bidar District	Gurunath	Dr. P G Waghmare Livestock Production and Management
17	Analysis of Body Weight In Kenguri Sheep Using Biometrical Measurements	Ashwini	Dr. Sathishchandra Birdar Livestock Production and Management
18	Buffalo Husbandry Practices In Kalaburgi District Of Karnataka	Suresh Awate	Dr. Sathishchandra Birdar LPM
19	Sheep Production Practices in Bidar District of Karnataka	Shridhar	Dr. Vivek M Patil Livestock Production and Management
20	Backyard Poultry Rearing and Marketing Practices in Bidar District of Karnataka	Sunil kumar	Dr. Vivek M Patil Livestock Production and Management
21	Morphometric Characteristics of Khillar Cattle In Karnataka State	Dharmappa B Rathod	Dr. P G Waghmare Livestock Production and Management
22	Morphometric Characteristics of Desi Chickens in Bidar District of Karnataka	Meenaxi	Dr. Sathishchandra Birdar Livestock Production and Management

**VETERINARY COLLEGE, SHIVAMOGGA**

1	A Participatory Action Research on Ram Lamb Fattening – An Enterprise In Rural Areas	N Giriraj	Dr. Veeranna K C Veterinary and Animal Husbandry Extension Education
2	Livestock Insurance In Karnataka – A Critical Analysis	Manjunatha N	Dr. Veeranna K C VAHEE
3	Assessment of Extension Advisory and Input Services In Contract and Non Contract Broiler Farming In Karnataka	Chidanand Reddy	Dr. Gopala G T VAHEE
4	Prevalence and Characterization of Salmonella Species / Subspecies at Different Eco-Epidemiological Units of Animal Interface	Shamanth Rakkith	Dr. Madhavaprasad C B Veterinary Public Health and Epidemiology
5	Prevalence and Characterization of Listeria Species at Different Eco-Epidemiological Units of Animal Interface	Mamatha S P	Dr. Madhavaprasad C B Veterinary Public Health and Epidemiology
6	Studies on Pharmacological and Toxicological Aspects of Trianthema Portulacastrum In Rats	Basavaraja, G.	Dr. Shridhar N B Veterinary Pharmacology & Toxicology



7	Toxicity Study of Fungal Contaminated Brewer's Spent Grain in Rats	Jagadeesh, S.C.,	Dr. Shridhar N B Veterinary Pharmacology & Toxicology
8	Studies on Pharmacokinetics and Safety Evaluation of Meloxicam with or Without co Administration of Andrographolide or Bromelain In Rats	Aruru Keerthana	Dr. Sunil Chandra, U Veterinary Pharmacology & Toxicology
9	Toxicity Study Of Fungal Infested Ragi Straw In Rats	Niranjana, S	Dr. Shridhar N B Veterinary Pharmacology & Toxicology
10	Pharmacological and Toxicological Studies of Ageratum Conyzoides In Rats	Harisha C B	Dr. Shridhar N B Veterinary Pharmacology & Toxicology
11	Performance of Lambs Fed Sorghum Hay, Maize Stover and Areca Sheath Based Total Mixed Ration: A Comparative Study	Pavan B L	Dr. V Nagabhushana Animal Nutrition
12	Effect of Ceremonial Floral Wastes on Palatability, Antioxidant Status and Egg Quality Traits In Commercial Layers	Arun F M	Dr. T. Thirumalesh Animal Nutrition
13	Optimisation of Performance in Native Birds of Chicken Fed Graded Levels of Energy and Protein	Mohammed Ummer Farooq	Dr. V Nagabhushana Animal Nutrition
14	Pathoepidemiology of Kyasanur Forest Disease (KFD) in Monkeys In Karnataka	Nishma M N	Dr. Kavitha Rani B Veterinary Pathology
15	Pathological Studies On Deaths In Monkeys In KFD Endemic Areas of Karnataka	M R Preetham	Dr. .Manjunath S S Veterinary Pathology
16	Studies on Mortalities In Asian Elephants With Special Reference to Pathology of Herpes virus Infections	Ajay Kumar	Dr. Jayaramu G M Veterinary Pathology
17	Studies on Major Bacterial-Viral agents Associated With Diarrhoea In Calves	Veenakumari A N	Dr. Arun S J Veterinary Microbiology
18	Studies on Biochemical and Hematological Parameters In Malnad Gidda Cows Under Different Management Systems In Shivamogga District	Sunil M G	Dr. A M Kotresh Veterinary Biochemistry
19	Studies on Hemato-Biochemical Profile of Microsporidial And Cryptosporidial Infections in Dogs	Amit Puthanikar	Dr. Ananthakrishna L R Veterinary Biochemistry
20	Studies on Metabolic and Hematological Profiles of Crossbred Cows With Laminitis	Doddabasavana Gowda K	Dr. A M Kotresh Veterinary Biochemistry
21	Studies on Extraction and Characterization of Skeletal Muscle Extra Cellular Matrix of Chicken ( <i>Gallus Gallus Domesticus</i> )	Yuvaraj Chavan	Dr. Dhoolappa M Veterinary Anatomy and Histology

**VETERINARY COLLEGE, HASSAN**

1	Evaluation of Single Cell Protein as a Protein Source In Large White Yorkshire Pigs	Naveen Kumar V S	Dr. Suresh B N Animal Nutrition
2	Assessment of Starter Rations on Dry Matter Intake and Growth Performance of Milk fed Hallikar Calves	Saadath Pasha	Dr. Jaishankar N Animal Nutrition
3	Behaviour and Growth Performance of Hassan Lambs Raised on Different Bedding Materials Under Intensive Production System	Krishnaji Rathod	Dr. Guruprasad R. Livestock Production and Management
4	A Study on Behavioural Traits and Performance of Hassan Lambs Reared on Different Floor Types Under Intensive System	Basavaraj H K	Dr. Guruprasad R. Livestock Production and Management
5	Management of Cockerel Chicks Under Intensive and Semi Intensive Systems of Rearing	Chaitrashree K T	Dr. Shivakumar Livestock Production and Management
6	Characterization of Indigenous Chicken and their Management Practices In Hassan District	Vinay M	Dr. Shivakumar Livestock Production and Management
7	Studies On Pathology Of Fca [Freund's Complete Adjuvant] Induced Rheumatoid Arthritis Model In Rats And Ameliorative Effects Of Garlic Derived Lectin	Hanamantappa K	Dr. Shilpa V T Veterinary Pathology
8	Studies on clinicopathological and molecular diagnosis of lumpy skin disease in cattle	Ravindra Gangadkar	Dr. Ravikumar P Veterinary Pathology
9	Studies on Pathology of Adenine Induced Chronic Kidney Disease and Ameliorative Effects of Gokshuradi Guggulu In Male Wistar Rats	Abhilash N S	Dr. Ravikumar P Veterinary Pathology
10	Sperm DNA Fragmentation and Sire Conception Rate In Holstein Friesian Bulls	Santhosh G R	Dr. Naveen Kumar G S Animal Genetic and Breeding

**DAIRY SCIENCE COLLEGE, BENGALURU**

1	Development of Ready-To-Eat (RTE) Functional Paneer Burfi Adopting Modified Atmospheric Packaging (MAP) Technique	Harshitha R	Dr. Harini Venugopal Dairy Technology
2	Development of Dragon Fruit ( <i>Hylocereus Undatus</i> ) Blended Shrikhand Enriched With Date Syrup ( <i>Phoenix Dactylifera</i> )	Mahan M	Dr. Praveen A R Dairy Technology
3	Process Optimization for The Development of Functional Yoghurt	Chethan D	Dr. H Arun Kumar Dairy Technology
4	Process Optimization for The Development of Functional Milk Agar Cake	Gangineni Arvind	Dr. H Arun Kumar Dairy Technology

5	Process Optimization for The Development of Low Calorie Functional Gulab Jamun From Reconstituted Skim Milk	Kavya A K	Dr. H Arun Kumar Dairy Technology
6	Utilization of Dairy By-Product ( <i>Paneer</i> Whey) for Development of Low-Calorie Whey <i>Lassi</i>	Uruturu Chandrasekhar	Dr. M.Venkatesh Dairy Technology
7	Development of Functional Chhana Podo	Perwez Ali	Dr. M.Venkatesh Dairy Technology
8	B-Sitosterol Test as a Tool To Detect Adulteration of Ghee With Palm	Heena Kausar	Dr. Shilpashree B G Dairy Chemistry
9	Physico – Chemical and Functional Attribute Studies of Dairy Whitener Brands available In Bengaluru Market	Vemula Priyanka	Dr. Shilpashree B G Dairy Chemistry
10	Preparation of Agglomerated Lactase Enzyme and Its Application in Flavored Milk	Naveena	Dr. Shilpashree B G Dairy Chemistry
11	Characterization of Milk Fat of Beetal And Sirohi Goat Breeds for Physico – Chemical and Therapeutic Attributes	Soumya	Dr. Shilpashree B G Dairy Chemistry
12	Characterization of Dairy Origin Probiotic <i>Bacillus</i> Species	K Sireesha	Dr. R. Prabha Dairy Microbiology
13	Study on The Effect of Antimicrobial Resistant Pathogens of Bovine Mastitis and Lactic Acid Bacteria in Dahi	Ganesh	Dr. R. Prabha Dairy Microbiology
14	Production of Encapsulated Probiotic Bacterial Concentrates and Their Performance in Yoghurt	Baindla Bhargavi	Dr. Ramchandra B Dairy Microbiology
15	Effect of Natamycin on The Microbiological Quality of <i>Paneer</i>	K Sreeramy	Dr. Ramchandra B Dairy Microbiology

**COLLEGE OF FISHERIES, MANGALURU**

1	Effect of Dietary Prebiotic Inulin on The Growth, Survival, Immune Response, Disease Resistance and Haematology in Amur Common Carp ( <i>Cyprinus Carpio Haematopterus</i> )	Pavan Kumar P	Dr. N Manjappa Aquaculture
2	Effects of Dietary Incorporation of Organic Acid Salt, Sodium Butyrate On Growth Performance, Immune Response, Disease Resistance and Gut Histology in Amur Common Carp ( <i>Cyprinus Carpio Haematopterus</i> )	Walde Swapnil Gopal	Dr. N Manjappa Aquaculture
3	Effect Of Dietary Noni ( <i>Morinda Citrifolia</i> ) on Growth Performance, Immune Response, Disease Resistance And Gut Histology of Common Carp ( <i>Cyprinus Carpio</i> )	Jyoti	Dr. Ganapathi Naik M Aquaculture

4	Evaluation of Different Strategies For Enhancement of Survival Rate and Growth Performance in The Nursery Rearing of Amur Common Carp, <i>Cyprinus Carpio Haematopterus</i>	Parvind Kumar	Dr. N Manjappa Aquaculture
5	Acute Toxicity and Behavioral Changes of The Brackish water Fish ( <i>Etrophus Suratensis</i> ) Exposed to Organophosphorus Pesticide – Malathion	Puanikar Suchita Suresh	Dr. Lakshmipathi M T Aquatic Environment Management
6	Comparative Evaluation of Phytoremediation of Selected Aquatic Weeds	Narendra Kumar Maurya	Dr. Lakshmipathi M T Aquatic Environment Management
7	Studies on Bioaccumulation of Heavy Metals In Selected Crabs Off Mangaluru Coast	Nandan Y A	Dr. A T Ramachandra Naik AEM
8	Bioaccumulation and Depuration of Pesticide Acephate Based on Histological Changes in Common Carp ( <i>Cyprinus Carpio</i> ) ( <i>Linnaeus, 1758</i> )	Bhooleshwari	Dr. Shivakumar M Aquatic Environment Management
9	Water Quality and Soil Dynamics of Selected Shrimp Farms of Ankola, Uttara Kannada District	Abdul Rahiman A	Dr. Chandrakant Lingdhal Aquatic Environment Management
10	Development of Ready To Eat Cobia Fillets Chunks ( <i>Rachycentron Canadum</i> ) In Curry Medium Using Retort Pouches	Tameshwar	Dr. B. Manjanaik Fish Processing Technology
11	Heat Penetration Characteristics and The Quality of Ready To Eat Pangasius Fish Fillets Chunks ( <i>Pangasius Hypophthalmus</i> ) In Masala Using Flexible Retort Pouches	Takade Vyankatesh Devendrakumar	Dr. B. Manjanaik Fish Processing Technology
12	Studies On Functional Fish Sausage – Its Characteristics And Shelf Life	Raju Kennauje	Dr. S. Siddappaji Fish Processing Technology
13	Fish Immune Gene Expression Against Red Seabream Iridovirus (Rsv) Infection	Nidhi D C	Dr. T Suresh Aquatic Animal Health Management
14	Protective Efficacy of Formalin-Inactivated Vaccine Against Red Seabream Iridovirus (Rsv) In Asian Seabass ( <i>Lates Calcarifer</i> )	Mahesh A S	Dr. T Suresh Aquatic Animal Health Management,
15	Phenotypic and Molecular Based Identification of Major Parasitic Diseases In Cultured Fishes	Nirosha	Dr. Girisha S K Aquatic Animal Health Management
16	Molecular Based Identification of Viruses Belonging To Family <i>Iridoviridae</i> And <i>Alloherpesviridae</i> From Cultured Fish	Shivakumar	Dr. T Suresh AAHM

17	Studies on Some Aspects of Biology of The Red Spotted Swimming Crab, <i>Portunus Sanguinolentus</i> (Herbst 1783) Off Mangaluru Coast	Aishwarya C H	Dr. Somashekara S.R Fisheries Resources and Management
18	Stock Structure Analysis of Moon Fish, <i>Mene Maculata</i> (Bloch & Schneider, 1801) By Using Truss Analysis	Thakare Rhishikesh D.	Dr. Somashekara S.R Fisheries Resources and Management
19	Studies on Some Aspects of Biology of Razorbelly Scad, <i>Alepes Kleinii</i> (Bloch, 1793) Along The Mangaluru Coast	Shwetha B C	Dr. Kumar Naik A S Fisheries Resources and Management
20	Studies on Some Biological Aspects Of White Fish, <i>Lactarius Lactarius</i> (Bloch And J.G. Schneider, 1801) Off Mangaluru Coast, Karnataka	Sahana H M	Dr. Kumar Naik A S Fisheries Resources and Management
21	Study on Genetic Diversity In Different Stocks of Amur Common Carp ( <i>Cyprinus Carpio Var. Haematopterus</i> ) Using Random Amplified Polymorphic Dna (Rapid) Markers	Satyaveer	Dr. K B. Rajanna Fisheries Resources and Management
22	Identification of Indian Catfish ( <i>Clarias Batrachus</i> ) and African Catfish ( <i>Clarias Gariepinus</i> ) By Using DNA Barcoding	Rajesh Jayaswal	Dr. K B. Rajanna Fisheries Resources and Management
23	Study on Genetic Diversity In Different Stocks of Catla ( <i>Labeo Catla</i> ) Using Random Amplified Polymorphic Dna (RAPD) Markers	Sheethala Panathila	Dr. K B. Rajanna Fisheries Resources and Management
24	Preparation of Fish Specimen For Museum Exhibition	Akansha Sondhiya	Dr. Kumar Nauk A S FRM
25	DNA Barcoding of Fish Species Belonging to Family <i>Balistidae</i> Prevalent along the Coastal Waters of Karnataka	Pratiksha Kamana Singh	Dr. Mridula Rajesh Fisheries Resources and Management
26	Comparative Study of Using Diesel and Bio-Diesel in a Single Cylinder Diesel Engine	Donadkar Rujuta R	Dr. Shashidhar Badami Fisheries Engineering and Technology
27	Study on The Influence of Fabricated Vertical Perforated Cylindrical Aerator Model on the Growth of Aquatic Organisms	Deshbhratar Dipali Ravindranath	Dr. S Varadaraju Fisheries Engineering and Technology
28	Studies on The Effect of Mini Purse Seine Operated with Out board Engine along The Karnataka Coast	Ms. Swami Rohini Ravikant	Dr. Jaya Naik Fisheries Engineering and 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	Analysis Of Hormonal and Biochemical Components In The Serum of Holstein Friesian Cross Bred Cows With Low Solids-Not-Fat (SNF) Syndrome	Hanamanta Nyamagonda	Dr. M Narayana Swamy Veterinary Physiology
2	Toxicological characterization of Titanium dioxide (tio <sub>2</sub> ) nanoparticles on Central Nervous System following Subchronic exposure and studies on ameliorative potential of exogenous Melatonin in Wistar rats	Shivaprasad G R	Dr. Prakash N Veterinary Pharmacology & Toxicology
3	Determination of Antimicrobial Resistance and Characterization of Associated Genes In Salmonella and Escherichia Coli In Poultry and Its Environment	M Nasim	Dr. Rathanamma Veterinary Microbiology
4	Isolation and Molecular Characterization of Antimicrobial Resistant <i>Escherichia Coli</i> In Pork Production Chain In and Around Bengaluru	Shivakumar	Dr. Shrikrishna Isloor Veterinary Microbiology
5	Development of Field and Laboratory Based Immunodiagnostic Assays For Rabies In Animals	Kavitha G	Dr. Shrikrishna Isloor Veterinary Microbiology
6	Epidemiology and Development of Recombinant Antigen Based Diagnostics For Bovine Leptospirosis	Sonali M	Dr. B M Veeregowda Veterinary Microbiology
7	Elucidation of Cellular and Molecular Effects of Herbal Plant Extracts and Their Bioactive Compounds on Murine and Ovine Ovarian Functions	Sampath kumar	Dr. V Girish Kumar Veterinary Biochemistry
8	Studies on Streptozotocin Induced Diabetes In Rats and Its Amelioration By Pomegranate Juice and Peel Extract	Yashas R Kumar	Dr. H D Narayanaswamy Veterinary Pathology
9	Study on Low Density Lipoproteins As An Alternative to Egg Yolk In Cryopreservation of Buck Semen	Kavyashree	Dr. Sudha G Veterinary Gynecology and Obstetrics
10	Certain Studies on Feline Haematropic Mycoplasmosis	Sushma R E	Dr. P T Ramesh Veterinary Medicine
11	Study on Bovine Theileriosis With Special Reference To Its Prevalence, Diagnosis and Comparative Efficacy of Therapeutic Regimen In and Around Hassan District	Shivakumar V	Dr. Vivek R Kasaralikal Veterinary Medicine

12	Diagnostic and Therapeutic Evaluation OF Canine Dilated Cardiomyopathy and its Secondary Complications With Special Reference To Pulmonary Hypertension	Basava Reddy Kype	Dr. C. Ansar Kamran Veterinary Medicine
13	Molecular Genetic Studies On Growth and Carcass Traits In Indigenous and Colored Broiler Chicken	Chandrashekar M	Dr. Yathish H M Animal Genetics and Breeding
14	Characterization and Performance Evaluation of Native Chicken In Four Districts (Tumakuru, Shivamogga, Davanagere and Chithradurga) of Bengaluru Division Of Karnataka State	Shivappa Nayaka H B	Dr. Jayanaik Poultry Science
15	<i>In-Ovo</i> and Early Chick Feeding of Nano Trace Minerals on Performance of Broiler Chicken	M Anandhi	Dr. Jayanaik Poultry Science
16	Development and Dissemination of Videos on Scientific Animal Husbandry Management Practices Through Social Media Platform	Shivakumar C M	Dr. K. Satyanarayan Veterinary and Animal Husbandry Extension Education
17	Artificial Insemination Delivery Services to Cattle and Buffaloes In Karnataka-A Multi stakeholder analysis	Chethan Kumar K N	Dr. K. Satyanarayan Veterinary and Animal Husbandry Extension Education

**VETERINARY COLLEGE, BIDAR**

1	Isolation and Molecular Characterization of Newcastle Disease Virus in Poultry from North-East Karnataka	Gopala Lunavat	Dr. Basawaraja Awati Veterinary Microbiology
2	Genomic Sequencing and Phylodynamics of Rabies Virus From Animals	Ashok Bhosale	Dr. Basawaraja Awati Veterinary Microbiology
3	Molecular Diagnosis and Therapeutic Management of Cryptosporidiosis In Calves	Sateesh A G	Dr. N. A. Patil Veterinary Medicine

**DAIRY SCIENCE COLLEGE, BENGALURU**

1	Development of Extruded Functional Reconstituted Skim Milk Paneer	Kushal Solanki	Dr. H Arunkumar Dairy Technology
2	Physicochemical and Functional Attributes of Ghee From Varying Sources of Milk Fat	Indu B	Dr. H M Jayaprakasha Dairy Chemistry

**COLLEGE OF FISHERIES, MANGALURU**

1	Synergistic Effects of Probiotic, Yeast and Prebiotic on Growth, Survival, Immune Response, Haematology and Gut Histology of Amur Carp ( <i>Cyprinus Carpio Haematopterus</i> )	Amogha	Dr. Ganapathi Naik Aquaculture
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2	Effect of Dietary Bay Laurel ( <i>Laurus Nobilis</i> ) and Ajwain ( <i>Trachyspermum Ammi</i> ) on Growth, Immune Response, Haematology and Gut Histology of Nile Tilapia ( <i>Oreochromis Niloticus</i> )	Jayashri Mahadev Swamy	Dr. Ganapathi Naik Aquaculture
3	Toxicological Effects of Oxytetracycline on Common Carp, <i>Cyprinus Carpio</i>	Shruthi	Dr. M.T. Lakshmipathi Aquatic Environment Management
4	Toxicological Characterisation of Titanium Dioxide (TiO <sub>2</sub> ) And Silicon Dioxide (SiO <sub>2</sub> ) Nanoparticles in Pearlscale ( <i>Etroplus Suratensis</i> )	Sheethal K U	Dr. M.T. Lakshmipathi Aquatic Environment Management
5	Utilization of Low Value Fish for Isolation and Characterization of Protein to Supplement Shelf Stable Oat Based Cookies with Process Optimization	Baraiya Kirankumar Gopalbhai	Dr. B. Manjanaik Fish Processing Technology
6	Reverse-Vaccinology Approach to Develop Vaccine Against Red Sea Bream Iridovirus (RSIV)	Puneeth T G	Dr. S K Girisha Aquatic Animal Health Management

### ABSTRACT

#	Name Of the College	Master Degree Thesis Accepted	Doctoral Degree Programme Thesis Accepted	Total
1	Veterinary College, Bengaluru	57	17	74
2	Veterinary College, Bidar	22	03	25
3	Veterinary College, Shivamogga	21	-	21
4	Veterinary College, Hassan	10	-	10
5	Dairy Science College, Bengaluru	15	02	17
6	College Of Fisheries, Mangaluru	28	06	34
<b>Total</b>		<b>153</b>	<b>28</b>	<b>181</b>

## 6) Library and Information Services

### UNIVERSITY LIBRARY AND INFORMATION CENTRE, KVAFSU, BIDAR

The University Library and Information Centre are serving to the faculties and students of Veterinary College, Nandinagar Campus, Bidar and the Dean, Veterinary College is the chairman of the local library committee. Always, library is heart of academic institutions and plays a vital role in supporting teaching, learning, research activities and provides the prime source of veterinary sciences and allied subjects information. The main motto of libraries is to accomplish its task of reaching to wider user community which comprises of Teacher, Scientists, Extension Specialists and Students. The University Library and Information Centre is well-stocked automated library equipped with latest books on veterinary sciences and allied disciplines and subscribes to National and International Journals and Magazines, competitive examination material etc. The Library and Information Centre also focuses on electronic delivery of information and library resources accessible through web and local area network.

In a nutshell the University Library and Information Centre has very rich collections print and non-print documents viz., of books, e-books (CABI, Elsevier, Wiley, Netbase), e-journals, database such as J-Gate Agriculture and Biological Sciences (CeRA), Krishi Prabha, Krishi Kosh, Indianjournal.com and many more. The Library and Information Centre resources are being made available through offline/online. The University Library and Information Centre provide information to the Teachers and students apart from scientists and extension specialists working in LIRC, Hallikhed.

#### (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	13998	9282	7140	2528	18364	1869	<b>74510</b>
2	Theses	2225	1086	54	25	--	936	0	<b>4326</b>
3	Reports	1004	341	29	158	--	3238	0	<b>4770</b>
4	Pamphlets	712	17	119	74	--	965	0	<b>1887</b>
5	Bound Volumes	12710	2803	143	1042	--	6405	0	<b>23103</b>
6	Gift Books	1638	407	215	19	95	655	39	<b>3068</b>
7	SC/ST Books	2741	3110	1559	1126	925	1890	420	<b>11771</b>
8	Indian Journals	18	22	12	45	--	--	1	<b>98</b>
9	Foreign Journals	09	01	-	02	--	--	0	<b>10</b>
10	Back Volumes	12710	2803	143	1042	--	6405	0	<b>23103</b>
11	Others								
	News papers		10	07	05	5	--	3	<b>30</b>
	Magazine		14	14	03	--	--	--	<b>31</b>

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

#	Particulars	L&IC VCH& DSCH	UL&IC, Bidar	L&IC VCS	L&IC HVC	L&IC FCM	L&IC VCG	L&IC DSCK	Total	
1	e-journals	1.CeRA , 2.CABI Vet Med resources online Database 3. 21 Indian online Journals accessing								
	CD	280	140	159	-	1346	-	-	<b>1925</b>	
2	Usage of e-Resource Journals	CeRA Login		2045						
		Abstract		5353						
		Full Text		1932						
		DDR		165						
		Total Hits		29313						

**(iii) Membership Usage**

#	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	Students at UG Level / per day average	177540	23100	20130	18480	7250	13600	8250	<b>268350</b>
2	Students at PG Level / per day average	78545	6991	990	13200	--	14850	0	<b>114576</b>
3	Staffs / per day average	6575	1650	1320	8250	4620	3300	3300	<b>29015</b>
<b>Total</b>		<b>262660</b>	<b>31741</b>	<b>22440</b>	<b>39930</b>	<b>11870</b>	<b>31750</b>	<b>11550</b>	<b>411941</b>

## 7) Student Welfare Activities

### DIRECTORATE OF STUDENT WELFARE, KVAFSU, BIDAR

#### XVI KVAFSU INTER COLLEGIATE SPORTS AND GAMES MEET -2022 HELD DURING 17<sup>th</sup> TO 21<sup>st</sup> NOVEMBER, 2022

##### INAUGURATION OF THE EVENT

The 16<sup>th</sup> Intercollegiate sports and games meet held at Veterinary College, Hebbal, Bengaluru was inaugurated by the respected members of the board of management of KVAFSU, Bidar Dr S Yatiraj and Dr K. Satyanarayana. The event took a start with the grand march past of 8(Eight) constituent Colleges followed by the flag hoisting by the dignitaries. Dr C. S. Nagaraj welcomed all the guests and dignitaries present during the function. Dr M D Suranagi briefed the modalities of the sports meet, conduct by the participants. Dr Bhumika K, a senior athlete of the Veterinary College, Hebbal, Bengaluru took oath on behalf of all the participants of constituent colleges. The torch was led by Shilpa H of Veterinary College, Hassan. Dr Anjan Kumar, Head, Dept. Phy. Education proposed the vote of thanks. The events were conducted as per the schedule prepared by the organizing college.

##### Athletics:

##### Individual Championship:

- |                         |   |
|-------------------------|---|
| 1. Women Section        | :- Bhumika K, Veterinary College, Hebbal, Bengaluru   |
| 2. Men Section          | :- Dhyana, Veterinary College, Hebbal, Bengaluru  |
| 1. Overall Championship | :- bagged by Veterinary College, Hassan   |
| 2. Runner-up            | :- bagged by Veterinary College, Shivamogga   |
| 1. Volleyball Men       | <b>Winner:</b> Veterinary college, Bengaluru<br><b>Runner:</b> Veterinary College, Shivamogga   |
| 2. Volleyball Women     | <b>Winner:</b> Veterinary college, Hassan<br><b>Runner:</b> Veterinary College, Shivamogga      |
| 3. Basketball Men       | <b>Winner:</b> Veterinary College, Bengaluru<br><b>Runner:</b> Dairy Science College, Bengaluru |
| 4. Basketball Women     | <b>Winner:</b> Veterinary College, Bengaluru<br><b>Runner:</b> Veterinary College, Hassan       |
| 5. Table Tennis Men     | <b>Winner:</b> Veterinary College, Shivamogga<br><b>Runner:</b> Veterinary College, Gadag       |
| 6. Table Tennis Women   | <b>Winner:</b> Veterinary college, Hassan<br><b>Runner:</b> College of Fisheries, Mangaluru     |

**7. Shuttle Badminton Men**

**Winner:** Veterinary College, Bengaluru  
**Runner:** College of Fisheries, Mangaluru

**8. Shuttle Badminton Women**

**Winner:** Veterinary college, Hassan  
**Runner:** College of Fisheries, Mangaluru

**9. Kho-kho Men**

**Winner:** Veterinary College, Shivamogga  
**Runner:** Veterinary College, Gadag

**10. Kabaddi Men**

**Winner:** Veterinary College, Gadag  
**Runner:** Veterinary College, Bengaluru

**11. Chess Men**

**Winner:** Veterinary College, Bengaluru  
**Runner:** Veterinary College, Shivamogga

**Overall 16<sup>th</sup> Inter-Collegiate  
Athletics & Games Meet  
Champion**

**Winner up -** Veterinary College, Bengaluru  
**Runner up -** Veterinary College Shivamogga

**VALEDICTORY FUNCTION - 21-11-2022**

On the 5<sup>th</sup> day of the sports and games meet, Dr K C Veeranna, Hon'ble Vice Chancellor, KVAFSU Bidar graced the occasion and addressed the participants and put forth the importance of sports and games in daily life and he also declares the sports and games meet closed and Hand over the flag to Dr. M D Suranagi, Director of Student Welfare, KVAFSU, Bidar for safe custody until 17<sup>th</sup> Intercollegiate sports and games meet. Hon'ble member of Board of Management Sri. Bojya Naik and Dr Dinesh graced the occasion and praised the effort of all the participants from various constituent colleges. Dr. M D Suranagi thanked everyone for the successful organization of the sports meet 2022.

**XXI ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET  
2022-23 Held at CCS, HAU, HISSAR on 20<sup>th</sup> to 24<sup>th</sup> FEBRUARY, 2023**

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar University team coaching camp for 21<sup>st</sup> ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2022-23 held during 6<sup>th</sup> to 16<sup>th</sup> February 2023 at KVAFSU Bidar. On 10<sup>th</sup> February-2023 the final selection trials for University team held and Total of 40 players selected for the University team. The selections were conducted by committee comprising of experts in each games.

Total of 40 selected out of 52 coaching camp participants. The List of players participated as listed below.

#	Name of the Participant	Name of the College
1	Karthik GL	Veterinary college, Bengaluru
2	Adithya Unnithan	
3	Gururaj KR	
4	Deepak	
5	Dhyan	
6	Gulshan Shetty	
7	Basappa L Jettennavar	
8	Kiran M	
9	Gagana M	Veterinary College, Hassan
10	Samrudhi V B	
11	Sushmitha AN	
12	Gagana K N	
13	Varnesh V	
14	Shilpa H	
15	Yeshwanth J	Veterinary College, Shivamogga
16	Punith T V	
17	Souparnika	
18	Praveenraj CD	
19	Ajay Kumar F Kurahatti	
20	Sunil S Aralikatti	
21	Meghana V	
22	Misha M R	College of Fisheries Mangaluru
23	Ananya T	
24	Ajay Kumar M	
25	Harshith MR	
26	Dheeraj S B	
27	Punith KV	
28	Kiran Naik V	
29	Manan C K	
30	Akshatha Nayak	Veterinary College, Gadag
31	Pradeep Kumar KA	
32	Satwik GowdaH S	
33	Sudeep B C	Veterinary College, Bidar
34	Bhimanand G K	
35	Sayed Nematullah Hussaini	
36	Ashish Birge	
37	Karthik Girigoudar	
38	Prinka	Dairy Science College, Bengaluru
39	Chandan HS	
40	Chethan Kumar C O	

On 16<sup>th</sup> February 2023, Honorable Vice Chancellor Dr. K.C. Veeranna, Respected Registrar Sri Sivasankar and Dean, Veterinary College, Bidar Dr. Dilip Kumar, distributed the sports wears to the participants and Wished all. The team left to CCS, HAU, Hissar, Haryana from Bidar via Hyderabad. Mr. Subraya Prabhu S, Assistant Professor, Veterinary College, Hassan, accompanied as Sports Coordinator, and Dr. Wilfred Ruban, Associate Professor, Veterinary College, Hebbal, Bengaluru, Dr. Lakshmishree K T. Associate Professor, Veterinary College, Shivamogga as team

mangers and Dr. Nagaraj S, Assistant Profesor (Contractual) Veterinary College, Shivamogga and Dr. Shivakumar, Asst. Professor (Contractual), Veterinary College, Bidar as coaches . Dr. M.D Suranagi, DSW, KVAFSU, Bidar also attended the XXI ALL INDIA INTER AGRICULTURAL UNIVERSITY SPORTS AND GAMES MEET 2023. We reached New Delhi on 18<sup>th</sup> February-2023 and Reported at CCS,HAU, Hissar on 18<sup>th</sup> night. It was a well organized sports meet. Some of the appreciable notices done during the sports meet are as follows;

1. Online registrations of Participants
2. Good transport and accommodation arrangements to participants as well as team mangers
3. Good food and Hospitality
4. Proper planning of organizing sports events and punctuality
5. Good sports facilities and infrastructure

Our students shown excellent performance in Athletics Men & Women, Volleyball – Men and other games.

1. Athletics- Men and Women

Miss. Samrudhi V B of Veterinary College, Hassan secured 5<sup>th</sup> position in Javelin throw finals.

Mr. Varnesh V of Veterinary College, Hassan secured 6<sup>th</sup> in 100mts run finals and participated in 200mts finals.

4x400 mixed relay team participated in finals of the completion and secured 5<sup>th</sup> position.

4x100mts men relay team participated in finals competition.

Miss Shilpa H of Veterinary College, Hassan participated in 800mts women finals.

Miss Sushmitha AN of Veterinary College, Hassan secured 6<sup>th</sup> position in Shotput.

2. Volleyball Men team lost in Quarter Finals position in the tourna ment.
3. Badminton Women team lost in quarter finals.
4. Basketball men team lost in quarter finals.
5. Kabaddi men lost in early rounds.

On 25<sup>th</sup> February 2023 we left to New Delhi from CCS, HAU, Hissar, as the scheduled departure was at 8.00 pm our team visited the Delhi local places and enjoyed the trip. We reached Bangalore on 27<sup>th</sup> February 2023 at 1:00pm. The return journey was comfortable since all reserved seats are confirmed and we found the students has participated with great enthusiasm and tired their best at the competition site and no misbehavior from the KVAFSU, team found during the tour.





KVAFSU SPORTS AND GAMES TEAM 2022-23

**(ii) Youth Festival of various constituent Institutions of the University**

**16<sup>th</sup> KVAFSU INTERCOLLEGIATE YOUTH FESTIVAL 2022-23**

KVAFSU Intercollegiate Youth Festival held at Veterinary College, Bidar during 5<sup>th</sup> to 7<sup>th</sup> November 2022. The Youth Festival was inaugurated by Prof. K C Veeranna, Vice -chancellor, KVAFSU Bidar. Smt. Kavitha Mishra and Sri VasanthBiradar, Members, Board of Management KVAFSU Bidar, graced the occasion as chief guests.

Dr. M. D. Suranagi, Director of Student Welfare, Dr. B. V. Shivaprakash, Director of Research, Prof. N. A. Patil, Director of Extension, Dr. Dilipkumar, Dean & Chairman, Veterinary College Bidar, Dr. H Manjunatha, Dean, Dairy Science College, Kalburgi. Dr Shivakumar M, Dean, College of Fisheries, Mangaluru and Dr. U.S. Jadhav, University Librarian graced the occasion. Dr. Krishnamurthy, C. M, Organizing Secretary & Staff Advisor organized the programme.



Sl. No	Name of the Event	First Prize	Second Prize	Third Prize
<b>I. GROUP EVENTS</b>				
1	<b>One act play</b>	Sachin S B & group Veterinary College, Hassan	Shripad S Hedge, & group Veterinary College, Bangalore	Shreehari T N & group Dairy science College, Kalaburgi
2	<b>Group Dance (Folk)</b>	Veterinary College, Bangalore	Dairy Science College, Kalburgi	Veterinary College, Shivamogga
3	<b>Mime</b>	Jejjuri Yogesh & group Veterinary College, Bidar	Vaibhav Sulgunte & group Dairy science College, Kalburgi	Praveen Kumar D & group Veterinary College, Gadag
4	<b>Skit</b>	Dairy Science College Kalaburgi	Veterinary College Bidar	Dairy science College Bangalore
5	<b>Patriotic Song</b>	Spruha & group Veterinary College, Bidar	Misha & group Veterinary College, Shivamogga	Shukragowri & group Dairy science College, Kalaburgi
6	<b>Group Song</b>	Shukragowri & group Dairy science College, Kalaburagi	Varsha s & group Veterinary College, Hassan	Spruha & group Veterinary College, Bidar
<b>II. INDIVIDUAL EVENTS (Fine arts)</b>				
1	<b>Mono Acting</b>	Pallavi Panchal Veterinary College, Bidar	Sachin S B Veterinary College, Hassan	Geethanjali S Veterinary College, Shivamogga
2	<b>Light Vocal</b>	Suhith S Veterinary College, Bangalore	Moulya C. Y Dairy science College, Bangalore	Bhoomika Suvarna College of Fisheries, Mangalore
3	<b>Rangoli</b>	Swathi Dairy science College, Kalburgi	Meghana V Veterinary College, Shivamogga	Shripad S Hegde Veterinary College, Hebbal, Bangalore
4	<b>Cartooning</b>	Harish M Sirsi Veterinary College, Shivamogga	Hanumanth Irappa Pujari Veterinary College, Hassan	Chetan Chawan Veterinary College, Gadag
5	<b>Poster Making</b>	Chinmay Karanth Veterinary College, Shivamogga	Yuktha Prakash K Veterinary College, Bidar	Swathi R Shetty Veterinary College, Bangalore
6	<b>On spot Painting</b>	Shripad S hedge Veterinary College Bangalore	Kavyashree K R Dairy science College, Bangalore	Bhoomika Achar Veterinary College, Hassan
7	<b>Clay Modeling</b>	Harish M Sirsi Veterinary College, Shivamogga	Srushti Veterinary College, Bidar	Hanumanth Irappa Pujari Veterinary College, Hassan
8	<b>Collage</b>	Shambhavi I Meti Veterinary College, Hassan	Arun Malleshi Biradar Veterinary College, Bidar	Meghana V Veterinary College, Shivamogga

### III. LITERARY EVENTS

1	<b>Quiz</b>	Bharath & group Veterinary College, Shivamogga	Mohammed Rahil & group Dairy science College, Bangalore	Vasanth & group Veterinary College, Mangalore
2	<b>DEBATE (KANNAD A)</b>	Rakshith B S (against) Veterinary College, Shivamogga	Bharath K T ( for) Veterinary College, Shivamogga	Kavanashree N (for) Veterinary College, Bangalore
3	<b>DEBATE (English)</b>	Darshan H N (for) Veterinary College, Bangalore	Shreekrupa K R (against) Veterinary College, Shivamogga	Anusha N (against) Veterinary College, Bangalore
4	<b>Extempore Speech (KANNAD A)</b>	Darshan P G Veterinary College, Bangalore	Mohammed Zain Dairy science College, Bangalore	Arun Malleshi Biradar Veterinary College, Bidar
5	<b>Extempore Speech (English)</b>	Shrestha C Veterinary College, Shivamogga	Darshan H N Veterinary College, Bangalore	Nikhil K Veterinary College, Gadag
6	<b>Elocution (Kannada)</b>	Bhoomika K R Dairy science College, Bangalore	Darshan P G Veterinary College, Bangalore	Bharath K T Veterinary College, Shivamogga
7	<b>Elocution (English)</b>	Pragya Shukla Veterinary College, Hassan	Annush N Veterinary College, Bangalore	Mohammed Rahil Dairy science College, Bangalore

OVER ALL RUNNER-UP CHAMPIONS	<b>Veterinary College, Hebbal, Bengaluru</b>
OVER ALL Winners-UP CHAMPIONS	<b>Veterinary College, Shivamogga</b>

The valedictory and prize distribution function held on 7<sup>th</sup> November 2022. Shri Sivasankar S IFS, Registrar, KVAFSU Bidar was the Chief guest and distributed the prizes along with Dr. M. D. Suranagi, Director of Student Welfare, Prof. N. A. Patil, Director of Extension, Dr. Dilipkumar, Dean & Chairman, Veterinary College Bidar and Dr. H Manjunatha, Dean, Dairy Science College, Kalburgi. Dr. Krishnamurthy, C. M, Organizing Secretary & Staff Advisor proposed Vote of thanks.



**Veterinary College Shivamogga won overall championship Winners**





**Veterinary College Bengaluru won overall championship Runners**

**XXI ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL 2022 -23  
HELD AT UAS, GKV CAMPUS, BENGALURU HELD ON 13<sup>TH</sup> TO 17<sup>TH</sup> MARCH, 2023**

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar university team coaching camp for 21<sup>ST</sup> ALL INDIA INTER AGRICULTURAL UNIVERSITY YOUTH FESTIVAL 2022-23 held on 2<sup>nd</sup> March to 11<sup>th</sup> March-2023 at Veterinary College, Bengaluru. Total of 22 students from various constituent colleges had taken part in the coaching camp. The List of players along with Team Managers, Accompanist, Assistants and Coordinator participated as listed below.

<i>Sl. No.</i>	<i>Name of the Participant</i>	<i>Name of the College</i>	<i>I.D. No.</i>
1	Suhith S	Veterinary College, Hebbal, Bengaluru	VHK 1861
2	Shripad S Hegde	Veterinary College, Hebbal, Bengaluru	VHK 1860
3	Anusha N	Veterinary College, Hebbal, Bengaluru	VHK 1904
4	Shashank K N	Veterinary College, Hebbal, Bengaluru	VHK 1957
5	Arun Malleshi Biradar	Veterinary College, Bidar	VBK 1810
6	Somashekhar Choudaki	Veterinary College, Bidar	VBK 1945
7	Bhagyesh Hanamant Basagond	Veterinary College, Bidar	VBK 1913
8	Shukra Gouri	Dairy Science College, Gulbarga	DGK 2019
9	Priyanka	Dairy Science College, Gulbarga	DGK 2015
10	Kruthika N	Dairy Science College, Gulbarga	DGK 2008
11	Harish M Sirsi	Veterinary College, Shivamogga	VSK 1817

12	Ismail Khadirsab Mirjanaik	Veterinary College, Shivamogga	VSK 1820
13	Krishna Y Kottal	Veterinary College, Shivamogga	VSK 1825
14	Meghana V	Veterinary College, Shivamogga	VSK 1831
15	Moulya C Y	Dairy Science College, Hebbal, Bengaluru	DHK 2018
16	Kavyashree K R	Dairy Science College, Hebbal, Bengaluru	DHK 2011
17	Sachin S B	Veterinary College, Hassan	HVK 1845
18	Shambhavi I Meti	Veterinary College, Hassan	HVK 1851
19	Hanumanth I P	Veterinary College, Hassan	HVK 1921
20	Nikhil K	Veterinary College, Gadag	VGK 1920
21	Manan C K	College of Fisheries, Mangalore	FMK 2023
22	Kiran Naik V	College of Fisheries, Mangalore	FMK 2020
23	Dr. Anjan Kumar, Assistant Professor, Veterinary College, Hebbal, Bengaluru	Team Manger	
24	Dr. Dhanalakshmi H, Associate Professor, Veterinary College, Hebbal, Bengaluru		
25	Mr. Kumarshekar	Accompanists	
26	Mr. Rudresh A S		
27	Mr. Prashant S		
28	Mr. Anil Kumar	Assistants	
29	Mr. Shivashankar		
30	Mr. Manoj Kumar, Assistant Professor, College of Fisheries, Mangaluru.	Youth Festival Coordinator	

The students reported on 1<sup>st</sup> March 2023 to the coordinator Youth Festival at Mangala Raitha Bhavana, Bengaluru. The boys accommodated at Mangala Raitha Bhavana and Girls at Ladies Hostel, Veterinary College, Bengaluru. The coaching camp venue was at Mangala Raitha Bhavana Training Hall and Indoor Badminton courts from 2<sup>nd</sup> to 11<sup>th</sup> March 2023. The accompanists and Assistants trained the students in bellow mentioned items.



**KVAFSU YOUTH FESTIVAL L TEAM 2022-23**



**MR. HARISH M SIRSI RECEIVING 3<sup>RD</sup> PRICE IN CARTOONING**



**MR. SUHIT S RECEIVING 4<sup>TH</sup> PLACE IN SOLO SINGING**

It was a well-organized AGRIFEST. Some of the appreciable notices done during the AGRIFEST are as follows

1. Online registrations of Participants
2. Good venues for different events and all competition went on smoothly
3. Good food

## 8) National Service Scheme (NSS)

### NATIONAL SERVICE SCHEME, KVAFSU, Bidar

1. **Allotment of volunteer strength and Budget for the year 2022-23:** 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 for the year 2022-2023

The budget of Rs. 4,03,093/- for NSS Regular activities and Rs. 3,50,000/- for NSS Special camp activities was released by the state NSS cell for the financial year 2022-2023 in four instalments as below:

#	Installment and date of release	Amount for NSS Regular activities (Rs)	Amount for NSS Special Camp (Rs)	Total
1	First (23.08.2022)	103093.00	87500.00	190593.00
2	Second (02.03.2023)	100000.00	87500.00	187500.00
3	Third (23.03.2023)	100000.00	87500.00	187500.00
4	Fourth (28.03.2023)	100000.00	87500.00	187500.00
<b>Total</b>		<b>403093.00</b>	<b>350000.00</b>	<b>753093.00</b>

Since, the 75% of the budget was released in the month of March, 2023 through Zero Balance Subsidiary Account (ZBSA), the amount couldn't be utilized.

### 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 held at Gulbarga University, Kalaburagi from 15.11.2022 to 21.11.2022.**



#	Name of the Student	Class	College
1	Jejjuri Yogesh	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bidar
2	Nagesh	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bidar
3	Jyoti Madev Jumanal	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bidar
4	Yukta Prakash K	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bidar

**b. The National integration camp organized by Veterinary College, Hassan from 11.03.2023 to 17.03.2023**

#	Name of the Student	Class	College
1	Shreyank D T	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
2	Basavaraj Nagalapur	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
3	B. Arun Kumar	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
4	Sudhakar U K	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
5	Madhushree M	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
6	Shashikala M	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
7	Siddanagouda R Patil	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bangalore
8	Kavya B M	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Shivamogga
9	Sagar P R	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Shivamogga
10	Pooia D S	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Shivamogga
11	Veerendra Makati	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Shivamogga
12	Manohar A S	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Shivamogga
13	Pooia R M	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Shivamogga
14	Beerappa	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bidar
15	Bharathish K	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Bidar
16	Chandan. V M	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Gadag
17	Malatesh P G	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Gadag
18	Akshay Kumar B S	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Hassan
19	Kiran S V	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Hassan
20	Rakshitha C	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Hassan
21	Sahana H	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Hassan
22	Shubhashree K. Patil	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Hassan
23	Trupti V	3 <sup>rd</sup> B.V.Sc & A.H	Veterinary College, Hassan
24	Gagan Yadav	2 <sup>nd</sup> B.Tech(D.Tech)	Dairy Science College, Mahagaon
25	Shree Hari	2 <sup>nd</sup> B.Tech(D.Tech)	Dairy Science College, Mahagaon
26	Thejas D	2 <sup>nd</sup> B.Tech(D.Tech)	Dairy Science College, Bengaluru
27	Zuber Ahmed	2 <sup>nd</sup> B.Tech(D.Tech)	Dairy Science College, Bengaluru
28	Nishitha A G	2 <sup>nd</sup> B.F.Sc	College of Fisheries, Mangaluru
29	Veeresh	2 <sup>nd</sup> B.F.Sc	College of Fisheries, Mangaluru
30	Rajesh G S	2 <sup>nd</sup> B.F.Sc	College of Fisheries, Mangaluru
31	Arvind kumar K M	2 <sup>nd</sup> B.F.Sc	College of Fisheries, Mangaluru

4. **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.

<i>Date</i>	<i>Events</i>
<b>Veterinary College, Bidar</b>	
05.06. 2022	World Environment Day
14.08.2022	Har Ghar Tiranga Abhiyaan
26.11.2022	Constitution day celebrated
06.10.2022	Fit India run
<b>Veterinary College, Bangalore</b>	
22.09.2022	Blood Donation Camp
19.10.2022	Plantation Program
<b>Veterinary College, Shivamogga</b>	
06.06.2022	Plantation Drive at campus
04.05.2022 to 25.08.2022	Pruning of dead and decayed branches of standing trees in the campus
18.09.2022	Mass Cleaning Drive
04.10.2022	Plastic Collection Drive
31.05.2022	Organized Awareness Workshop on world tobacco day
01.06.2023 to 21.06.2023	Organized 3-week yoga training camp on occasion of international yoga day
04.08.2022	Training program on Basic Life Saving Skills
12.08.2022	A training program on social and legal awareness
09.09.2022	Awareness on Blood Donation Cum Camp
14.09.2022 to 07.10.2022	An awareness camp on RABIES at adopted school, ie Govt. Primary School, Kashipur
31.10.2022	Unity Run and Clean India Campaign -2.0 was organized in association with Nehru Yuwa Kendra and Rotary club, Shivamogga
26.11.2022	Constitution Day
21.01.2023	Organized Awareness Jatha/Walk-a-thon on water conservation as part of Tunga River Abhiyaan
<b>Veterinary College, Hassan</b>	
01.04.2022	Pariksha Pe Charcha by the displaying the live programme of Hon'ble Prime Minister Shri. Narendra Modi Ji
27.09.2022	Blood donation camp
19.11.2022- 25.11.2022	Communal Harmony Week
28.10.2022	Koti Kanta Gayana organized on the occasion of Kannada Rajyothsava
31.10.2022	Run for Unity & Rashtriya Ekta Divas Celebration
24.11.2022	Cancer Awareness Program in collaboration with Bharath Cancer Hospital, Mysore.
26.11.2022	India Mother of Democracy organized with the theme Bharath Lok tantra ka Janani

<b>Veterinary College, Gadag</b>	
05.06.2022	World Environment Day, Plantation of saplings
21.06.2022	International Yoga Day
13.08.2022	Har Ghar Tiranga Abhiyan
14.08.2022	Har Ghar Tiranga Abhiyan at Sambapur village
02.10.2022	Clean India
06.10.2022	Fit India run
26.11.2022	Constitution Day
25.01.2023	National voter's day
13.02.2023	Blood Donation Camp
<b>Dairy Science College, Kalburgi</b>	
01.06.2022	World Milk Day
09.06.2022	World Environmental Day / Plantation
21.06.2022	International Yoga Day
09.08.2022 to 15.08.2022	Azadi Ka Amrit Mahostav
18.08.2022	Sadbhavana diwas
24.09.2022	NSS Day celebration
26.11.2022	Constitution Day and Milk Day
25.01.2023	National Voters day
10.03.2023	Training Programme on Climate change and its impact in association with Centre for Environmental Education(CEE)
<b>College of Fisheries, Mangaluru</b>	
15.06.2022 to 21.06.2022	Yoga training on the occasion of International Yoga Day
10.08.2022	Tannirbhavi beach cleaning programme in collaboration with Centre for Marine Living Resources and Ecology (CMLRE)
11.08.2022	Bengre, Fisherman Village cleaning programme in collaboration with Centre for Marine Living Resources and Ecology (CMLRE)
17.09.2022	Mangaluru, Panambur beach cleaning programme on the occasion of birthday of Honourable Prime Minister of India, Shri Narendra Modi.
28.10.2022	Koti kanta gaayana programme

**5. 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	Veterinary College, Shivamogga (Unit I and Unit II)	Name of the village; Veerannana Benavalli Hobli: Ayanur Taluk: Shivamogga District: Shivamogga	04/04/2022 to 10/04/2022
2	Veterinary College, Bidar (Unit I and Unit II)	Name of the village : Bemalkheda Hobli : Bemalkheda Taluk : Chitaguppa District : Bidar	23/05/2022 to 29/05/2022

3	Veterinary College, Bengaluru (Unit I and Unit II)	Name of the village: Sankanahalli Hobli: Nagamangala Taluk: Nagamangala District: Mandya	15.06.2022 to 21.06.2022
4	Veterinary College, Hassan (Unit I and Unit II)	Name of the village: Kuppallii Hobli: - Taluk: Hassan District: Hassan	16.06.2022 to 22.06.2022
5	College of Fisheries, Mangaluru	Name of the village: Uchila Hobli: Kapu Taluk: Udupi, District: Udupi	16/08/2022 to 22/08/2022
6	Veterinary College, Hassan (Unit I and Unit II)	Name of the village: Gopanahalli Hobli: - Taluk: Hassan, District: Hassan	04.01.2023 To 10.01.2023
7	Dairy Science College, Hebbal Bengaluru	Name of the village: Haadonahalli Hobli: - Taluk: Doddaballapura District: Bengaluru Rural	27.02.2023 to 05.03.2023

## 6. National Integration Camp Organized by Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar

The state government sponsored National Integration Camp was held at Veterinary College, Hassan, a constituent college of KVAFSU, Bidar from 11.03.2023 to 17.03.23. A total of 145 NSS volunteers comprising of 79 male and 66 female volunteers from the states of Karnataka, Kerala, Tamil Nadu and Maharashtra participated in camp.

**Inauguration of camp:** The camp was inaugurated by Hon'ble Vice Chancellor Dr. K.C. Veeranna on 11-03-2023. Col. K.S. Natesh, An academician, was invited as the guest of honor. Dr. M.C. Shivakumar, Dean Veterinary College, Hassan was the president of the function. Dr. Shrikant Kulkarni, attended the camp as NSS Programme Coordinator of the university.

### The schedule of the camp

**Morning Session:** Every day the morning activities started at 6AM that included flag hosting, exercise, and Yoga followed by chintana-mantana. The morning session was followed by shramadhana from 10.00AM to 1.00PM.

**Afternoon Session:** In the afternoon session, personality development programs were given by eminent speakers on different aspects as detailed below:

#	Date	Topic	Speakers
1	11.03.2023	Importance of discipline and yoga in day to day life	Dr. Guruvasavaraj Yalagachin, Assistant Professor, SDM College of Ayurveda, Hassan
2	12.03.2023	Role of Youth in G20	Kum. Sriprada Indrakranti, International Y-20 delegate, SDM College of Ayurveda, Hassan
3	13.03.2023	Preparedness to face examinations	Col. K.S. Natesh, President, Netaji Public School, Hassan
4	14.03.2023	National and Social Service: Current Scenario and ways forward	Mr. Yathishwar, AVK College, Hassan

5	14.03.2023	Youth participation in nature conservation	Mr. Ahmed Hagare, Siddeshwara ITI College, Hassan
6	16.03.2023	Role of youth in nation building	Mr. Suresh Guruji, Scouts and Guides, Hassan
7	16.03.2023	Digital platforms: New horizons to benefit the youth	Dr. Thimmesh, Assistant Professor, Govt. Engineering College, Hassan

**Evening Session:** Every day in the evening session, the cultural programmes were given by all the participants that included traditional songs, dances, skits etc. that demonstrated the ideas of national integration

**Educational Tour:** An educational tour was arranged for all the participants on 15.03.2023. All the NSS volunteers and NSS programme officers were taken to UNESCO world heritage sites at Belur and Halebeedu and Shravanabelagula.

**Valedictory Programme:** The valedictory programme was held on 17.03.2023. The chief guest for the function was Shri. Y M Uppin, Youth Officer, NSS Regional Directorate, Bengaluru. Dr. Prasanna Narasimha Rao, Principal SDM College of Ayurveda, Hassan attended the programme as guest of honor. Dr. M.C. Shivakumar, Dean Veterinary College, Hassan presided over the function. Dr. Shrikant Kulkarni, NSS Programme Coordinator of KVAFSU, Bidar presented the brief report of National Integration Camp. Dr. Sheela P and Dr. Nagappa K, NSS Programme Officers of Veterinary College, Hassan delivered welcome speech and vote of thanks respectively.

## 9) Other co-curricular activities

### VETERINARY COLLEGE, BIDAR

#	Type/ Nature of activity	Date	Brief report
1	Motivational Speech	01.04.2022	On the occasion of " Azadi Ki AmruthMahostava" organized gathering of students (UG,PG and PhD) for witnessing the live program of Hon'ble Prime Minister Shri Narendra Modiji interactive talk with the students of the country on the topic "How to Face the Examination"
2	Birth Anniversary of National/International Personality	14.04.2022	Facilitated in organizing 131 <sup>st</sup> Birth Anniversary of Dr. Babasaheb Ambedkar at VCB
3	Academic Orientation for fresher's	18.04.2022	Organized orientation program for first Year B.V.Sc., and A.H of academic year 2021 -22
4	World Veterinary Day-2022 Seminar	30.4.2022	Organized a seminar on "Role of Veterinarians in Quality Assurance of Livestock Products" (Speaker: Dr. S.B.Barbuddhe., Director, NRCM, Hyderabad) on occasion of "World Veterinary Day-2022" with a theme of "Strengthening Veterinary Resilience" at Veterinary College, Bidar
5	Birth Anniversary of National/International Personality	03.05.2022	Organized 889 <sup>st</sup> Birth Anniversary of Vishwa Guru Basaveshwar at VCB



6	Blood Donation Camp	06.08.2022	<p>On the occasion of Azadi Ki AmrutMahostav, Veterinary College Bidar in association with Primary Health Centre Kamathana, organized blood donation camp at VCB on 06.08.2022 which was inaugurated by Dr. DilipKumar D Dean , Veterinary College Bidar and Taluk Health officer Bidar Dr. Sangareddy and Dr. Vijaykumar Suryavanshi, Medical Officer PHC sangolagi</p> <p>There were 50 donors (students, faculties and non teaching staff) who donated their blood to save life of needy patients in the camp and the camp was coordinated by Dr. Mallinath K C and Dr. Rupali Staff advisors and other supporting staff</p>
7	World Rabies Day-2022 (Human Health Camp)	28.09.2022	Organized Free Anti-Rabies Vaccination for Veterinary students and Faculties at BRIMS Bidar in association with IVSA on the occasion of World rabies Day-2022 and Total of 46 members comprising students and staff of Vet College Bidar got vaccination
8	Koti Kanta singing program 2022	28 <sup>th</sup> October 2022	On the occasion of the 67 <sup>th</sup> Kannada Rajyotsava celebrations, the Kannada and Culture Department of the state has suggested to organize a statewide Koti Kanta Gayana Program 2022. In this regard, the program was conducted at Veterinary College, Bidar campus. The Dean Dr. Dilip Kumar was chaired the programme. Teaching and non-teaching staff and all students were participated. Dr. Krishnamurthy, C. M Staff Advisor organized the programme.
9.	"Kalakaranji" 16 <sup>th</sup> Inter-Collegiate Youth Festival-2022, Veterinary College, Bidar	5.11.2022 to 7.11.2022 (3 days).	<p>16<sup>th</sup> Inter- Collegiate Youth Festival was organised at Veterinary College Bidar. Other constituent colleges such as Veterinary College Bengaluru, Veterinary College Shivamogga, Veterinary College Hassan, Veterinary College Gadag, College of Fisheries Mangalore, Dairy College Bengaluru and Dairy College Kalaburgi were participated in the 3 days event.</p> <p>Chief Guest Smt. Kavitha mishra and Shri, Vasant Biradara (Honorable Managing Board Members) and Prof. K.C. Veeranna inaugurated the programme and Dr. Viveka Kasarallikar narrated the program. Various competitions in the Youth Festival were held at three different venues like, the Conference Hall, Examination Hall and University Auditorium of the Veterinary College, Bidar. Dr. Krishnamurthy, C. M organizing Secretary &amp; Staff Advisor organized the programme.</p>
10	Bhaktashreshtha Kanakadasa Jayanti Celebration 2022	10.11.2022	Bhaktashreshtha Kanakadasa Jayanti was organised in Veterinary College, Bidar. The Dean, Dr. Dilip Kumar, spoke some good words about Bhakta Kanakadasa. Teachers, non-teaching staff and students were actively participated in the programme. Dr. Krishnamurthy CM Staff Advisor organized this event.

11	39th Foundation Day Celebration of Veterinary College, Bidar	14-11-2022	<p>The 39th Foundation Day celebration was organized at the University's new auditorium in association with Alumni Association, Bidar and Veterinary College, Bidar. The Dean, Dr. Dilipkumar was the chief guest and Read the annual report for the year 2021-22. On behalf of Old Students Association, Bidar, in Nandinagar campus “<b>Shri Gopalakrishna statue</b>” was installed and Unveiled by the Registrar of the University, Shri. Sivasankar S.</p> <p>Several Alumni’s of Veterinary College, Bidar felicitated in person and in absentia</p> <ol style="list-style-type: none"> <li>1. Dr. Rajkumar Naubade, Scientist, USA</li> <li>2. Dr. Basavaraja Binjawadagi, Scientist, USA</li> <li>3. Dr. Veerupaksha Gowda Patila, Scientist, USA</li> <li>4. Dr. Sivasharanappa G. Yelagoda, Ex-President, Karnataka Veterinary Association, Bangalore,</li> <li>5. Dr. Ramakrishna Mudepala, Principal, K.S.R.P. Training Centre, Munirabad</li> <li>6. Dr. Vijayamahantesh B. Danammanavar, Hon'ble District Commissioner, Vijayapura,</li> <li>7. Dr. Shekhara HT, Principal, Police Training Centre, Mysore,</li> <li>8. Dr. Sanganagowda P. Hosalli, Deputy Commissioner, Excise Department, Bagalkot,</li> <li>9. Dr. Doddappa H. Hoogara, Tehsildar, Chikkodi,</li> <li>10. Dr. Ajjaiah JR. Deputy Conservator of Forests, Sirsi Division,</li> <li>11. Dr. Vijayakumar Azura, Deputy Secretaries ZP. Vijayapura,</li> <li>12. Dr. Pradeep Kumar Hiremath, Tehsildar, Humanabad,</li> <li>13. Colonel (Dr.) Karabasappa Gurannavar, R.V.C.</li> <li>14. Dr. Sunila Patil, Chief Financial Officer, Bank of Baroda, Mauritius,</li> <li>15. Dr. Shivananda Mugadum, Deputy Commissioner, Commercial Taxes, Bangalore,</li> <li>16. Dr. Ramesh N. Doddamani, Deputy Commissioner, Commercial Tax, Chikmagalur,</li> <li>17. Dr. Hampanna Sajjan, Tehsildar, Government of Karnataka,</li> <li>18. Dr. Dattatreya J Gada, Tehsildar, Government of Karnataka</li> <li>19. Dr. Bhima Shankar Biradara, Senior Sub-Registrar, Vijayapur</li> <li>20. Dr. Sumanta B. Tehsildar, Bhatkala</li> </ol> <p>On the same occasion, a one-day technical conference was organized on “<b>Clinical Presentation and Treatment Advisory for Lumpy Skin Disease</b>”. Dr. Viveka R. Kasarallikar delivered a lecture as a resource scientist. Veterinary officers from different districts of the state participated. University officials Dr. B.V. Sivaprakash, Dr. NA Patila, Dr. MD Surangi, Dr. U.S. Jadhav, Dr.</p>
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			<p>Basavaraja Avati and the former extension director of the university, Dr. S. M. Sivaprakash, Dr. Nagaraja, Joint Director, Department of Animal Husbandry and Veterinary Services, Bangalore and Alumni Association President Dr. Chandrasekhara Patil was present.</p> <p>Staff Advisor Dr. Krishnamurthy C.M. organized the program. All undergraduate and postgraduate students, teaching and non-teaching staff of Nandinagar campus were participated.</p>
12	Constitution Day	26-11-2022	<p>“Constitution Day” was celebrated in the premises of Veterinary College, Bidar. 19 post graduate students presented their lectures on various issues identified by the government on the birth of democracy in India. Students were awarded first and second prizes in Kannada and English. Honorable Registrar Shri. Sivasankar administered the Constitution Oath to the students.</p> <p>Addressing the program, Dr. N. A. Patil, Extension Director spoke and convinced about equality, fundamental rights and exploitation. The program was chaired by Dr. Dilip Kumar said that Samvedhana will give us equal right to vote, civil liberties and Equality.</p> <p>SC/ST Cell Director Dr. RG Bijurkar, Director of Student Welfare Dr. MD Surangi and Chief Librarian Dr. U.S. Jadhav and teachers, non-teaching staff, students participated. The program. was organized by Staff Advisor Dr. Krishnamurthy C.M.</p>

#### VETERINARY COLLEGE, SHIVAMOGGA

#	Date	Activity
1	08.03.2023	<p>International women’s day celebration at Veterinary College Shivamogga on 8<sup>th</sup> March 2023. The Chief guest of the occasion Dr. N. Prakash, Dean, Veterinary College, Shivamogga He inaugurated the program by watering the plant and spoke on the contribution of women to the society. He appreciated all women including the hostel workers of the campus for their active contribution for upliftment of the College. Dr Lakshmishree welcomed the guests and audience, Dr. Jayashree briefed about the importance of such celebration for women and made a presentation of the women achievers across the globe and India. Prizes were distributed to winners of the events organized as part of the International women’s day- Rangoli competition, best dressed women of the campus and crafts made by women employees. Entertainment performance was given by internees of the constituent colleges (Girl’s students from Gadag and Hebbal campuses). Ms. Apoorva proposed vote of thanks. Dr Ranjitha was the master of ceremony. Overall 100 women and men employees of both teaching non teaching staff were present during the occasion.</p>

## VETERINARY COLLEGE, HASSAN

#	Date	Activity
1	2022-2023	Inter Collegiate sports and Games meet and Inter University Sports Coaching camp and Competition. - Mr Subraya Prabhu S
2	5-7 <sup>th</sup> November 2022.	Team Manager, Youth Festival-2022, KVAFSU, BIDAR, -. Dr. Vinuthan MK and Dr.Vilas D
3	17 <sup>th</sup> -21 <sup>st</sup> November 2022	Team Manager, Inter-collegiate Sports Meet, Bangalore KVAFSU, BIDAR- Dr. Hemanth Gowda K & Dr. Shankare Gowda A J
4	Hissar, 20 <sup>th</sup> to 24 <sup>th</sup> February, 2023.	Team manger of KVAFSU, team Contingent in Inter University sports and Games - Mr Subraya Prabhu S

## VETERINARY COLLEGE, GADAG

#	Date	Activity
1	18.04.2022	<b>Orientation Programme for Newly admitted students of first year B.V.Sc. &amp; A.H.</b> was conducted at Veterinary College, Gadag on 18-04-2022. Prof. R. Nagaraja, Dean, VCG presided over the occasion. Presentations were made by various faculty members about different departments/ sections of the college rules and regulations. Introduction and interaction was held with students and parents about academics, extra curricular amenities, discipline, accommodation, grievance redressal issues etc.
2	30.04.2022	<b>World Veterinary Day 2022, was celebrated</b> on 30-04-2022 by Veterinary College, Gadag. Dr. Shivakumar K. Radder, Professor (Ind. Charge) & Head, VAHE, VCG delivered a special lecture on “Strengthening Veterinary Resilience”. Faculty and students of Veterinary College, Gadag participated in the event.
3	17.06.2022	<b>Hostel Day Celebration :</b> Hostel Day was celebrated at Veterinary College, Gadag with great deal of enthusiasm and grandeur on 17-06-2022. The programme was inaugurated by noted veterinarian and theatre artist Dr. Basavaraj Benni of Hospet and presided over by Dr. R. Nagaraja, Dean, VCG. Warden Dr. Nagaraju, N. T. and Dr. Rashmi led the events. Hostel inmates performed various cultural and sports events like songs, dance, fancy dress show etc. Teaching and Non-teaching staff of the college was invited and present on the occasion.
4	12.08.2022	<b>Har Ghar Tiranga Abhiyaan :</b> Har Ghar Tiranga Abhiyaan was organized on 12-08-2022 conducted at Veterinary College Gadag on the occasion of Azadi Ka Amrit Mahotsav, completion of 75 years of independence. Prof. R. Nagaraja provided momentum to the drive. On this occasion, Tricolor national flags were distributed to the staff of the college to hoist at home. The teachers, non-teaching staff and students of the college enthusiastically participated in the march in the premises and shouted patriotic slogans.
5	15.08.2022	<b>76<sup>th</sup> Independence day was Celebrated</b> on 15-08-2022 at Veterinary College, Gadag. Prof. R. Nagaraja, Dean, VCG hoisted the National Flag and addressed the gathering. Mr. Yashwant Shahnai, Deputy Director of Prasar Bharati Organization, was the chief guest. Students, Teaching and non-teaching staff participated in the event.
6	27.09.2022	<b>6th Foundation Day Celebration of Veterinary College, Gadag:</b> 6th Foundation Day Celebration of Veterinary College, Gadag was organized on 27-09-2022. On this occasion, a brainstorming session was organized on the topic of “Indigenous Cattle Rearing: Pros and Cons”. The program was inaugurated by Dr. H. B. Hulagannavar, the Deputy Director of A.H. & Veterinary Services Department, Gadag. Dr. R. Nagaraja, Dean, VCG presided over. He expressed pride about achievements in teaching, organizing extension activities for farmers and carrying out research. He said that green and clean campus has been constructed with the cooperation of all. He thanked all those who worked hard for the progress of the university. Teachers, non-teaching staff and students of the college participated in this program.
7	28.10.2022	<b>Special Programme on the eve of Kannada Rajyotsava:</b> A special programme “Kothi Kantha Gaayana” was organized at Veterinary College, Gadag on 28-10-2022. 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.

8	01.11.2022	<b>Celebration of Kannda Rajyotsava at Veterinary College, Gadag:</b> 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. Students, faculty and staff of the college participated actively in the event.
9	26.01.2023	<b>Republic day was Celebrated at Veterinary College, Gadag.</b> Dr. Vijaykumar B. Shettar, Professor, LPM, VCG hoisted the National Flag and addressed the gathering. Students, Teaching and non-teaching staff participated in the event.
10	13.02.2023	<b>Blood Donation Camp</b> – A voluntary blood donation camp was organized by Veterinary College, Gadag and GIMS, Gadag. More than Faculty and students donated the blood voluntarily. NSS unit of the college coordinated the event.

#### DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU

#	Date	Activity
	18.04.2022 to 20.04.2022	Training programme for KMF staff (photos enclosed)

#### ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMAKURU

Sl.No.	Date	Activity
1.	14.04.2022	Celebration of Dr. B.R Ambedkar Jayanthi
2.	27.04.2022	Celebration of World Veterinary Day
3.	05.06.2022	Celebration of Environment Day
4.	15.08.2022	Celebration of Independence day
5.	02.10.2022	Celebration of Gandhi Jayanthi
6	01.11.2022	Celebration of Karnataka Rajyotsava.
7	14.11.2022	Celebration of Children's Day
8	01.12.2022	Celebration of World AIDS Day
9	26.01.2023	Celebration of Republic Day

#### ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI

#	Date	Activity
	13.08.2022	Aajadi Ka Amritmahotsava
	23.09.2022 to 28.09.2022	Rabies awareness program at schools of Kunnur and Dunsigrampanchayath
	11.12.2022	Health camp to AHP students by Dr.Yogendra from Basaveshwara medical college, Chitradurga
		ALL JAYANTHI CELEBRATION OF GREAT PERSONILITIES

#### ANIMAL HUSBANDRY POLYTECHNIC, DORNAHALLY-YADGIR

#	Date	Activity
1	14.04.2022	Ambedkar Jayanti celebration at AHP-Dornhalli in presence of Principal and students
2	03.05.2022	Basava Jayanti celebration at AHP-Dornhalli in presence of Principal and students

3	15.08.2022	Independence Day Celebration at AHP-Dornhalli in presence of staff and students. Flag hoisted By Dr. Shesharao, Principal, AHP, Doranahalli
4	31.08.2022	Celebration of Ganesh Chaturti
5	17.09.2022	Kalyan Karnataka Vimochana Diwas at AHP Dornhalli in presence of staff and students. Flag hoisted By Dr. Shesharao, Principal, AHP Doranahalli
6	02.10.2022	Gandhi Jayanti and Shramadan at AHP-Dornhalli in presence of Principal and students
7	09.10.2022	Valmiki Jayanti celebration at AHP-Dornhalli in presence of Principal and students
8	01.11.2022	Karnataka Rajyostava day celebration at AHP-Dornhalli in presence of Principal and students
9	26.01.2023	Republic day celebration at AHP-Dornhalli in presence of staff and students. Flag hoisted By Dr. Shesharao, Principal, AHP-Doranahalli

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

#	Date	Activity
1	19.04.2022	Attended Budget meeting at Vikasa Soudha, Bengaluru.
2	26.04.2022	Attended academic council meeting and convocation at KVAFSU, Bidar
3	13.06.2022	Attended HOD meeting at Dean Office, Bidar
4	28.06.2022	Attended One Health Program launch at NANP Audugodi
5	01.07.2022 to 02.07.2022	Attended KLDA meeting at MS building
6	08.07.2022	Attended advisory meeting at MS Building
7	19.07.2022	Inauguration of New Laboratory Building, Reviewed activities and progress of ADDL & IC, Belagavi
8	22.08.2023	Meeting with state drug controller at VC, Regional Office
9	10.10.2022	Attended research council meeting and extension council meeting at KVAFSU, Bidar
10	31.10.2022	GEM training to all teaching staff at IAH&VB, Hebbal, Bengaluru
11	02.11.2022	Conducted HOD meeting at IAH&VB, Hebbal, Bengaluru
12	21.11.2022	Conducted meeting with VC and HODs at IAH&VB, Hebbal
13	22.11.2022	Attended secretary meeting at Vikasa Soudha, Bengaluru.
14	23.11.2022	Conducted budget meeting with HODs and AC at IAH&VB, Hebbal
15	15.12.2022	Attended tender scrutiny meeting at KVAFSU, Bidar
16	26.12.2022	Budget review meeting for 2023-24 and 2022-23 at KVAFSU, Bidar
17	03.01.2023	BOS meeting at Vikasa Soudha
18	04.01.2023	E-Samartha training to all staff at IAH&VB, Hebbal, Bengaluru
19	07.01.2023	Attended MMR meeting at Vikasa Soudha, Bengaluru.
20	13.01.2023	Attended scrutiny of tender document at TPC, KVAFSU, Bidar
21	19.01.2023	Conducted Department of Biological Production meeting at IAH&VB

## II. RESEARCH

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

### 1) Completed Projects

#### a) Project Details

<i>Dept.</i>	<i>Title</i>	<i>Funding Agency</i>	<i>Budget (in lakhs)</i>	<i>Yr. of Comt.</i>	<i>Yr. of Compl</i>	<i>Principal Investigator</i>
<b>VETERINARY COLLEGE, BENGALURU</b>						
AGB	Expression of Heat Shock Protein genes in Goats	KVAFSU, Bidar (SCSP)	0.90	2022	2023	Naveen Kumar, S.
ANN	Evaluation of extruded crop residue based complete diets in Mandya Sheep	KVAFSU Bidar	0.30	2022	2023	Prabhu, T. M.
ANN	Effect of Zinc and <i>Vitamin E</i> supplementation in ewes during late pregnancy and lactation on the performance of lambs	KVAFSU Bidar	0.30	2022	2023	H.S. Madhusudhan
LPT	Development of omega-3 enriched chicken meat by feeding premix containing omega 3 rich ingredients in commercial broilers	M/s. Delightful Gourmet Pvt. Ltd.	2.69	2022	2022	S. Wilfred Ruban
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, Centre for Cellular and Molecular Platforms, NCBS-TIFR, Bengaluru	3.74	2020	2022	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	3.70	2021	2022	Jayanaik



PSc	Effect of dietary inclusion of sodium butyrate (Butycoat) on gut health and growth performance of broilers	Orffa animal Nutrition, Thane, 2021-22	1.26	2021	2022	H.C. Indresh
VAN	Flash based innovative technique as an aid in teaching Veterinary Anatomy	VGST GoK	30.00	2013	2023	Girish, M.H.
VAHEE	Evolving lyrics and use of popular music tunes for dissemination of selected scientific management practices	KVAFSU, Bidar	0.25	2022	2023	Manjunatha, L.
VBC	Metabolomic analysis of serum and follicular fluid in relation to age and breeding seasons in case of goat	KVAFSU, Bidar	0.35	2022	2023	Ramesh, H.S.
VGO	Non-Invasive pregnancy detection in <i>Panthera Tigris tigris</i> in fecal sample to detect PGFM using ELISA	-	0.30	2022	2023	Suchitra, B.R.
VMC	Indo-UK collaborative research project on “Chicken or eggs: Drivers of Antimicrobial Resistance in Poultry in India”	DBT, Govt. of India, New Delhi	51.60	2018	2022	Shrikrishna Isloor
VMC	Molecular Epidemiology of Mycoplasmosis in sheep and goats in Karnataka	SCSP-TSP Grants, KVAFSU, Bidar	0.90	2022	2023	D. Rathnamma
VPT	Evaluation of apoptosis inducing potential of rutin loaded chitosan nanoparticles	SCSP/ TSP Grants	1.50	2020	2022	Rashmi, R.
VSR	Supra cutaneous bone plating for the repair of metatarsal bone fractures in Bovines	TSP Grants of KVAFSU, Bidar	0.65	2022	2023	B.N. Nagaraja
<b>VETERINARY COLLEGE, BIDAR</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	SCP/TSP Grants	0.75	2020	2022	Malasri, G.



VSR	A pilot study on phacoemulsification for cataract surgery using cadaver eye ball	KVAFSU, Bidar	0.50	2018	2022	Dilipkumar, D.
VSR	Histopathological and electron microscopic evaluation of polyglecaprone 25 and polydioxanone absorbable sutures for soft wound closure in canines	SCSP/TSP	0.35	2020	2022	Venkatgiri
VSR	Evaluation and diagnosis of surgical conditions of eye in animals	KVAFSU, Bidar	0.45	2021	2022	Bhagavantappa, B.
VCC	Epizootiological, diagnostic and therapeutic studies on lumpy skin disease in bovine in Bidar, Karnataka	KVAFSU, Bidar	0.35	2021	2023	Bhagawantappa, B.
<b>VETERINARY COLLEGE, SHIVAMOGGA</b>						
VAN	Development of nanoemulsion based tissue preservatives	KVAFSU, Bidar	0.15	2021	2022	Lakshmishree, K.T.
LPM	Determination of the mitigation effects of yeast cell wall extract in broilers fed diet naturally contaminated with Fusarium toxins	Alletch, Kentucky, USA	10.08	2019	2023	Malathi, V.
LPM	Effect of yeast selenium on production performance, egg quality and selenium deposition in laying hens	M/s Algebra Bio Pvt Ltd., Australia	3.39	2020	2023	Malathi, V.
ANN	<i>In vitro</i> Protein Quality Evaluation of Soybean Meal Used By Livestock Feed Manufacturers	KVAFSU, Bidar	0.23	2021	2023	Giridhar, K.S.
ANN	Validation and calibration of chemical composition of selected feed ingredients with NIR-Spectroscopy	KVAFSU, Bidar	0.15	2021	2022	Manju, G.U.
<b>VETERINARY COLLEGE, HASSAN</b>						
ANN	Promotion of Desi chick rearing for sustainable income to scheduled tribe women at Hassan	ICAR-TSP Grant	40.00	2020	2022	Jaishankar, N.
VAHEE	Pork Consumption Pattern in Hassan District - A Critical Study	KVAFSU, Bidar	0.20	2022	2023	V. Jagadeeswary

VETERINARY COLLEGE, GADAG						
AGB	A Study to Assess The Herd Composition and Herd Dynamics of Gaushalas In Gadag and Surrounding Districts	-	-	2022	2023	Siddalingswamy Hiremath
AGB	A Study on the Indigenous Cattle Reared Under Mobile Pastoral System In Karnataka	-	-	2022	2023	Siddalingswamy Hiremath
VPE	Studies on antimicrobial resistance, genetic diversity and pathogenesis of some zoonotic bacterial intracellular pathogens of public health significance	KVAFSU, Bidar	2.50	2019	2022	Santosh Sajjan
DAIRY SCIENCE COLLEGE, BENGALURU						
DT	Technology for the development of <i>paneer</i> bite	KVAFSU, Bidar	0.50	2021	2022	Harini venugopal
DAIRY SCIENCE COLLEGE, KALABURAGI						
DT	Development of Enriched Banana Fruit Yoghurt	KVAFSU, Bidar	0.20	2021	2022	Shashikumar, C.S.
DE	Surface UV-C Light Treatments to Extend the Shelf life of Paneer	KVAFSU, Bidar	0.50	2020	2022	Devaraju, R.
DE	Study on high intensity ultrasound assisted rehydration property of dried acid casein	KVAFSU, Bidar	0.20	2021	2022	Devaraju, R.
COLLEGE OF FISHERIES, MANGALURU						
AAHM	Protective efficacy of formalin-inactivated vaccine against Red Seabream Iridovirus (RSIV) in Asian Seabass ( <i>Lates calcarifer</i> )	KVAFSU, Bidar	0.70	2022	2023	T. Suresh
FET	Studies on the effect of Ring seine operated with Outboard motor engine along Mangaluru coast”	SCSP/TSP Grants	0.70	2022	2023	Jaya Naik
INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS						
Dept of BP	Evaluation of glycoprotein E gE deleted Bovine herpesvirus-1 BoHV-1 as infectious bovine rhinotracheitis IBR Marker vaccine candidate in Cattle	DBT-BIRAC Govt of India	50.60	2019	2022	B.M. Chandranaik

Dept of BP	DBT Network Programme on Bovine Tuberculosis Control: Mycobacterial Diseases in Animals Network (MyDAN) program	DBT	187.26	2018	2023	Amitha Reena Gomes
Dept of BP	Pilot project for production of anti-snake venom through poultry Eggs	RKVY	50.00	2016	2022	Raveendra Hegde
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b>						
LRIC (Deoni)	Establishment of Model Deoni Cattle Farm in Bidar District	KLDA, GoK	100.00	2016	2023	Prakash kumar Rathod
LRIC (Deoni)	Improving Livelihood of Scheduled Caste (SC) Community through Integrated Livestock Development and Capacity Building Activities in Bidar District of Karnataka	ICAR, New Delhi (SCSP Grants)	65.00	2020	2023	Prakash kumar Rathod
<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 Animal Health India Pvt. Ltd.	35.62	2018	2023	K.B. Rajanna
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>						
FRIC, H'ghatta	Production of hormone-free mono-sex population of Nile Tilapia, <i>Oreochromis niloticus</i> (Linnaeus, 1758) for the farming community	KVAFSU, Bidar	2.00	2019	2022	Ravindragouda Patil
<b>FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA</b>						
FRIC, Ankola	Development of backyard hatchery system for pearl spot ( <i>Etroplus suratensis</i> ) as alternative livelihood	KVAFSU, Bidar	1.50	2019	2022	Chandrakant Lingadhral
<b>ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMKUR</b>						
AHP, Konehalli	Effect of supplementing combination of natural thiosulfinate, Cinnamaldehyde and naphthoquinones on broiler performance	Quadragen Vethealth Pvt. Ltd. Bengaluru	1.10	2021	2022	Umashankar, B.C.

## 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	15	98.44
2	Veterinary College, Bidar	5	2.40
3	Veterinary College, Shivamogga	5	14.00
4	Veterinary College, Hassan	2	40.20
5	Veterinary College, Gadag	3	2.50
6	Dairy Science College, Hebbal, Bengaluru	1	0.50
7	Dairy Science College, Kalaburagi	3	0.90
8	College of Fisheries, Mangaluru	2	1.40
9	Institute of Animal Health & Veterinary Biologicals, Bengaluru	3	287.86
10	Livestock Research and Information Center, Hallikhed, Bidar	2	165.00
11	Fisheries Research and Information Center, Hebbal, Bengaluru	1	35.62
12	Fisheries Research and Information Center, Hesaraghatta	1	2.00
13	Fisheries Research and Information Center, Ankola	1	1.50
14	Animal Husbandry Polytechnic, Konehalli	1	1.10
<b>Total</b>		<b>45</b>	<b>653.42</b>

VETERINARY COLLEGE, BENGALURU

**Title: Expression of Heat Shock Protein genes in Goats**

- Heat stress upregulated the hepatic mRNA expression of *GH*, *HSF1* and *HSP27* in both Nandidurga and Bidri goats, *THRβ* and *HSP70* in only Nandidurga and *GHR* in only Bidri goats.
- Higher *IGF1* mRNA expression in heat stressed Bidri goats indicates that they have superior ability to maintain growth performance even in severe heat stress in comparison to Nandidurga goats.
- Higher expressions of *HSP70* mRNA in Nandidurga goats indicate the higher magnitude of stress experienced by them as compared to Bidri goats.
- *LEP*, *THRa*, *HSP90* and *HSP110* mRNA expressions were similar among control and heat stress groups of both Nandidurga and Bidri goats.
- Bidri goats exhibited better adaptive capacity to cope with heat stress in comparison to Nandidurga goats.

**Title: Evaluation of extruded crop residue based complete diets in Mandya Sheep**

- Chemical composition analyses (%) revealed that, maize cob and areca sheath were comparable with finger millet straw except for lower total ash in maize cob (2.52 v/s 8.61) and higher NDF & hemicellulose in maize cob (86.66 v/s 71.61; 29.79 v/s 17.18). Rumen *in vitro* net gas (ml / 200mg DM / 24 h) production and energy density (ME MJ / kg DM) was higher in areca sheath and maize cob as compared to finger millet straw. The difference in energy density (ME MJ/kg DM) between total mixed ration in mash and extruded pellet form is 0.618, 1.282 and 0.418, respectively for finger millet straw, areca sheath and maize cob based diets. The extrusion cooking of roughage based complete diets could improve the energy density by 4.2 to 6.4 % in the present study. There was significant ( $P \leq 0.05$ ) difference in total DMI (g/d and g/kgW<sup>0.75</sup>) among the treatment groups. The levels of dry matter intake were quite adequate in all the groups to meet the requirement of growth. Since the DMI is impacted by the net energy intake of animals the lower intake of DM in group T<sub>2</sub> could be ascribed to the higher energy density of the AS ECF diet (11.15 MJ/kg DM) compared to FMS ECF (10.27 MJ/kg DM) and MC ECF (10.15 MJ/kg DM). There was also a significant ( $P \leq 0.01$ ) difference in OM, CP, EE and ADF intake. The ADG (g) and FCR (g DMI/ g BW gain) for T<sub>1</sub>, T<sub>2</sub> and T<sub>3</sub> groups were statistically non-significant (T<sub>1</sub>; 68.53 & 6.48, T<sub>2</sub>; 65.58 & 7.76 and T<sub>3</sub>; 65.70 & 8.07). The mean apparent digestibility (%) of nutrients (DM, OM, CP, NDF and ADF) was statistically significant ( $P \leq 0.01$  or  $P \leq 0.001$ ) among the treatment groups except for EE. The per cent digestible organic matter in dry mater (DOMDM) (T<sub>1</sub>, 70.89, T<sub>2</sub>, 76.13 & T<sub>3</sub>, 63.33) was also significantly ( $P \leq 0.01$ ) different among the treatments.
- Considering the overall performance of the experimental lambs, the feeding of extruded finger millet straw or areca sheath or maize cob based complete feed resulted in higher voluntary dry matter intake, weight gain and feed conversion ratio as compared to the conventional form of diet. Lower lignin content in the areca sheath possibly resulted in higher digestibility of nutrients and higher DOMDM content, consequently the higher ME content in the areca sheath based extruded complete diet. Based on these results, it is inferred that the finger millet straw, areca sheath and maize cob based extruded complete feeds can be utilized for feeding small ruminants to sustain production performance of livestock during feed scarcity period.
- Technology Developed: Extrusion processing of crop residue based complete diet could improve the voluntary dry matter intake, nutrient digestibility, weight gain and feed conversion ratio in growing lambs.

## b) Research Highlights

### VETERINARY COLLEGE, BENGALURU

#### Title: Expression of Heat Shock Protein genes in Goats

- Heat stress upregulated the hepatic mRNA expression of *GH*, *HSF1* and *HSP27* in both Nandidurga and Bidri goats, *THRβ* and *HSP70* in only Nandidurga and *GHR* in only Bidri goats.
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- Technology Developed: Extrusion processing of crop residue based complete diet could improve the voluntary dry matter intake, nutrient digestibility, weight gain and feed conversion ratio in growing lambs.



### **Title: Effect of different sulfate polysaccharides (Sea weeds-Powdered & liquid form) on growth performance, carcass characteristics and gut health in broiler chicken**

- An experiment was conducted to study the effect of supplementing sulfated polysaccharides (Seaweed extracts) on production performance, lipid profile, immune response and gut health in broilers.
- A total of 360, day-old broiler chicks were randomly allocated to the eight experimental groups each containing 3 replicates with 15 birds in each replicate.
- Basal diet T1 was prepared using corn-soya diet without antibiotic. T2 was fed with basal diet with 0.03 per cent antibiotic. T3 was fed with basal diet with sulfated polysaccharide from Red sea weed *Kappaphycus alvarezii* @ 250g/ton for 6 weeks.
- Treatment groups T4 and T5 were fed with control diet along with sulfated polysaccharide from *Kappaphycus alvarezii* @ 500g/ton for 4 and 6 weeks, respectively.
- Treatment groups T6, T7 and T8 were fed with control diet with sulfated polysaccharide from red sea weed *Eucheuma denticulatum* @ 250g/ton for 6 weeks, @500g/ton for 4 and 6 weeks, respectively
- The results revealed that feeding sulfated polysaccharides resulted in significant improvement in body weight and feed efficiency.
- Inclusion of sulfated polysaccharides had no significant improvement on the immune response against Newcastle disease and Infectious bursal disease.
- Sulfated polysaccharides improved weight of lymphoid organs, significantly ( $P \leq 0.05$ ) reduced serum cholesterol, LDL, Triglycerides and increased HDL and total protein levels.
- There was no significant difference ( $P > 0.05$ ) in dressing per cent, but significantly reduced ( $P \leq 0.05$ ) meat cholesterol levels and increased visceral organ weights and antioxidant status.
- Histopathology of duodenum, jejunum and ileum revealed higher number of villi per microscopic field, higher villi width and height in supplemented birds.
- It was concluded that feeding sulfated polysaccharides was beneficial in improving growth performance, gut health, antioxidant profile, lowering the serum cholesterol, LDL and improving serum HDL levels in broiler chicken.
- Conclusion:
- It was concluded that feeding sulfated polysaccharides was beneficial in improving growth performance, gut health, antioxidant profile, lowering the serum cholesterol, LDL and improving serum HDL levels in broiler chicken.

### **Title: Effect of silver Nano Particles as Disinfectant (ArgeCid) and as Additive (ArgeFeed) on Growth, Immune Status and Gut Histopathology in Broilers**

- **Body weight:** The effects of supplementation of different levels of silver nano particles through drinking water on body weight shows that there was significant difference ( $P < 0.05$ ) in all treatment groups compared to the control group. The highest weekly body weight was recorded in T-3 which was supplemented with silver nano particles at concentration of 0.1 ml per litre of drinking water, T-2 shows significant effect on weekly body weight when compared to control group which was supplemented with silver nano particles at concentration of 0.05 ml per litre of drinking water but failed to be significant when compared with T-3. Overall there is a significant difference between T-2 and T-3 compared to T1 onwards of second week.
- We found that, the results of this study investigated that silver nanoparticles improve the growth performance of the chickens significantly. Other parameters such as immunological parameter also show promising results by improving the immune status of the birds as shown by decreased mortality rate as a result of less occurrence of diseases and other possible

infections. The host physiological status, such as stress factors and gut morphology may negatively influenced by silver nanoparticles. In conclusion despite its potential effects on growth performance, carcass traits, microbial characteristics, and other parameters, the cytotoxic effects of AgNPs cannot be left unexplored through proper conduct of Research. Since it is harmful to human health and pose a challenge to public health if contacted through the chickens. Therefore, it is suggested that the usage of lower dose (0.05 ml AgNPs / ltr of drinking water) of silver nanoparticles to be tried in further studies.

**Title: Effect of dietary inclusion of sodium butyrate (Butycoat) on gut health and growth performance of broilers**

- The body weight (g) of the birds fed with 0.1 % sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T3) and 0.02% Bacitracin methylene disalicylate (BMD) + 0.1% sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T4) had significant difference ( $P \leq 0.05$ ) when compared to the control and 0.02% Bacitracin methylene disalicylate (BMD) from first week till the end of the experiment (42<sup>nd</sup>day).
- Feed intake revealed (grams) significant difference ( $P \leq 0.05$ ) in the birds fed with 0.1 % sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T3) and 0.02% Bacitracin methylene disalicylate (BMD) + 0.1% sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T4) had significant difference ( $P \leq 0.05$ ) when compared to the control and 0.02% Bacitracin methylene disalicylate (BMD) group in the first two week of the experiment.
- The feed conversion ratio was significantly better ( $P \leq 0.05$ ) among treatment groups fed with 0.1 % sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T3) and 0.02% Bacitracin methylene disalicylate (BMD) + 0.1% sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T4) compared to the control and 0.02% Bacitracin methylene disalicylate (BMD) group from first week till the end of the experiment (42<sup>nd</sup>day).
- The significant reduction in E.coli and improvement in Lactobacillus spp. Count was observed in group fed with 0.1 % sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T3) and 0.02% Bacitracin methylene disalicylate (BMD) + 0.1% sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T4) compared to the control and 0.02% Bacitracin methylene disalicylate (BMD) group at the end of the experiment (42<sup>nd</sup> day).
- The Intestinal villi height and crypt depth in different groups of birds fed with 0.1 % sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T3) and 0.02% Bacitracin methylene disalicylate (BMD) + 0.1% sodium butyrate in pre-starter, 0.05 % in starter and 0.025 % in finisher (T4) compared to the control and 0.02% Bacitracin methylene disalicylate (BMD) group at the end of the experiment (42<sup>nd</sup> day).

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

- The components of each module developed include schematic diagram of the topic of interest, animation to suit the topic of interest i.e., blood flow, nerve supply, contraction and relaxation of muscle, superimposition of the organs and body structures as they are approached from the surfaces, three dimensional viewing of the organs insitu. Text of the topic to be incorporated in the animation appropriately. Actual dissection performed is professionally video graphed along with voice recording.
- Necessary equipment for the UG and PG research program were procured
- Dissection videos with vice over were developed with professionals

### **Title: Evolving lyrics and use of popular music tunes for dissemination of selected scientific management practices**

- Five important themes in animal husbandry were selected using relevancy rating by experts, namely Rabies disease, Foot and Mouth Disease, Clean milk production, Vaccination, deworming and control of ectoparasites and Importance of green fodder. On all these five topics five songs were developed using popular music tunes in Karnataka. All the developed songs were tested for effectiveness. They were listened to 100 sample farmer respondents. The knowledge level of the sample respondents on the selected topics pre and post listening was collected. A significant increase in the knowledge level was found after listening to the songs indicating the effectiveness of the songs in increasing the knowledge level of the farmers on the selected topics.

### **Title: Metabolomic analysis of serum and follicular fluid in relation to age and breeding seasons in case of goat**

- The study carried out from July 2015 to April 2016 includes monsoon, winter and partially spring season, where
  - Concentrations of total protein, albumin and creatinine increased in the serum, while the concentrations of HDL, cholesterol, triglycerides and urea increased in the follicular fluid in relation to the different age groups.
  - Concentration of total protein, albumin, HDL, cholesterol, triglycerides, calcium and magnesium increased in the follicular fluid when compared to serum, whereas, creatinine and glucose increased in the serum when compared to follicular fluid of different breeding seasons.

### **Title: Non-Invasive pregnancy detection in Panthera Tigris tigris in fecal sample to detect PGFM using ELISA**

- Reproductive parameters like Estrous cycle, Estrus period, Estrus signs, number of copulations, gestation length and litter size were studied. All the parameters were found to be within the normal physiological range.
- ELISA based PGFM kits were found to be a reliable method to diagnose pregnancy in tigers.
- PGFM levels were seen elevated between 45 and 60 days after crossing in all the pregnant tigers.
- It was also found to be an accurate method to differentially diagnose pseudopregnancy, resorption and pregnancy status of the animal.

### **Title: Indo-UK collaborative research project on “Chicken or eggs: Drivers of Antimicrobial Resistance in Poultry in India**

- In all, 342 *E. coli* and 10 Salmonella isolates were obtained in first crop cycle and 170 *E. coli* and 20 Salmonella isolates in second crop cycle. The overall presence of *E. coli* in first crop season from all the three farms was 76.23 per cent and 67.93 per cent in second crop season from two farms. The maximum positivity among all the samples was found in ileal and cecal content, fecal swabs outside and feed feeders (100 %), followed by fecal swabs (94 %), boot socks (88 %), water drinkers (66.6%), water outside and borewell (33.3%), feed bags (16%), water tank (12%) in first crop season. In second crop season, The water sample from water drinker, fecal swab collected outside the shed, ileal and cecal content samples in EMB and fecal swab sample collected outside the shed in EMB+CX all revealed presence of *E. coli* (100%) whereas from other samples collected, the isolation of *E. coli* on EMB and EMB+CX varied from 16.6 to 91.6 per cent

- A total of 10 salmonella isolates were isolated from all 101 samples collected from all 3 different farms in first crop cycle and 20 salmonella isolates were isolated from 64 samples collected from two different farms in second crop cycle.
- The overall presence of Salmonella in all three farms was 9.90 per cent in first season and 17.18 per cent in second season. Farm 1 did not yield any salmonella isolates. Highest yield of isolates from boot socks outside samples revealed contamination of internal and external environments of the farms with Salmonella in both second and third farms, Salmonella was recovered from boot socks, fecal swabs, ileal and caecal contents. None of the samples collected from water tank, drinkers, water outside (puddle water), water borewell, feeders, feed bags, boot socks inside were positive for salmonella in first season.
- The isolates from environmental sample i.e., from Boot socks outside revealed 8.33 per cent and the fecal swab inside revealed 16.6 per cent and feed feeder samples showed 50 per cent presence of salmonella. None of the samples collected from water tank, drinkers, water outside (puddle water), water borewell, feed bags, boot socks inside, fecal swab outside, ileum and ceaca were positive for salmonella in second season.
- Out of 342 *E. coli* isolates obtained, 117 *E. coli* (one *E. coli* and one ESBL *E. coli* per sample) and all 10 Salmonella from first season and Out of 170 *E. coli* isolates obtained, 74 *E. coli* (one *E. coli* and one ESBL *E. coli* per sample) and out of 20, 13 Salmonella from second season were subjected to standard disc diffusion assay using most common antibiotics in poultry belonging to six viz:  $\beta$  Lactams, quinolones, aminoglycosides, polypeptides/polymyxins, tetracyclines and folate pathway inhibitors, whereas for detection of colistin resistance MIC was carried out with micro broth dilution method.
- Antibiotic susceptibility testing based on disc diffusion assay revealed that hundred per cent of *E. coli* and Salmonella isolates were resistant to at least one antibiotic tested. Highest resistance was observed for ampicillin (91.33 %), followed by doxycycline (89.33 %), gentamicin (4 %), enrofloxacin (72 %), trimethoprim sulphamethoxazole (56 %), amikacin (48.66 %), colistin (42.33 %) and least resistance was to ceftiofur (13.33 %) in isolates from first season. Doxycycline and ceftazidime (100%) followed by enrofloxacin (90%), ampicillin (88%), cefotaxime (71%), trimethoprim/sulphamethoxazole (56%), cefotaxime + clavulanic acid (55%), gentamicin (40%), amikacin (37%), and least ceftazidime+ clavulanic acid (10%) from second season. Farm 1 samples did not yield salmonella in first season.
- Among the *E. coli*, highest presence was recorded for *qnr B* (96.87%), *qepA* (92.7%) followed by *bla*<sub>TEM</sub> (71.96%), *bla*<sub>CTX-M</sub> universal (29.56%), *qnr S* (28.93%), *qnr D* (28.62%), *bla*<sub>CTX-M</sub> group 1 (10.8%), *mcr-3* (6.27%), *bla*<sub>CTX-M</sub> group 2 (5.64%), *oqx AB* (5.5%), *bla*<sub>SHV</sub> (4%), *bla*<sub>OXA</sub> (2.5%), *bla*<sub>CTX-M</sub> group 8/25 (1.85%), *aac(6')-Ib-cr* (1.5%) and *qnrA* (0.5%) in first crop season and in second season, The overall presence of AMR genes among the *E. coli* isolates in both the farms irrespective of the source, type and point of sampling was *qnr B* and *qepA* (98.8%), *qnr S* (82.7%) *bla*<sub>TEM</sub> (64.3%), *bla*<sub>CTX-M</sub> universal (42.5%), *bla*<sub>CTX-M</sub> group 1 (40.22%), *bla*<sub>SHV</sub> (27.5%), *bla*<sub>CTX-M</sub> group 8/25 (17.2%), *qnr D* (13.7%), *bla*<sub>OXA</sub> and *bla*<sub>CTX-M</sub> group 2 (12.6%), *mcr2* (11.4%), *mcr 3* (8%), *qnrA* and *oqx AB* (6.8%), *bla*<sub>CTX-M</sub> group 9 (4.5%), *aac(6')-Ib-cr* (2.29%), and *qnr c* (1.14%) whereas *mcr1, 5, 4* and *bla*<sub>NDM</sub> were absent.
- Among the AMR genes in the salmonella isolates, highest presence was recorded for *bla*<sub>TEM</sub> and *bla*<sub>SHV</sub> (100%), followed by *qnr D* (68.3%), *qnr B* (61.6%), *qnr A* (15%) and *oqx AB* (5%). However, none of the other genes included in the study were detected in first crop season and in second crop season. The results showed that overall presence of AMR genes among the salmonella isolates in both the farms irrespective of the source, type and point of sampling was *bla*<sub>CTX-M</sub> universal, *qnr s* and group 1 (84.6%) followed by group 2, group 9 and *qnr A* (61.5 %), *qnr D* (38.4 %), *qnr B* (30.7%), group 8/25, *oqx AB*, *qepA*, *aac (6')-Ib-cr* and *bla*<sub>SHV</sub> (15.3%) and *bla*<sub>TEM</sub> (7.6 %) however none of *qnrC*, *bla*<sub>OXA</sub> and *bla*<sub>NDM</sub> were present.



- In *E. coli*, prevalence of AMR genes in the beginning of crop cycle viz., on day zero was 45.45 per cent which was high than at the end of crop cycle (37.87 %) in season one and in second season, on day zero was 51.5 per cent which was high than at the end of crop cycle (49.8 %). Highest prevalence was recorded for quinolones followed by  $\beta$ -Lactamases and very less prevalence of mobile colistin resistance genes (only *mcr-3*) were found in both the season. Maximum number of AMR genes was identified in isolates from boot socks, fecal swabs, ileal and cecal contents in both the crop seasons.
- The salmonella isolates revealed the presence of only  $\beta$ -lactams and quinolone resistant genes in both the crop seasons. Among all the samples, highest number of AMR genes was detected in boot socks, fecal swabs, ileal and cecal contents in first crop season and in second crop season, highest number of AMR genes were detected in boot socks and fecal swabs. However, none of ileal and cecal samples were positive for any of the AMR genes in second season.
- The overall presence of *E. coli* and *Salmonella* was 76.23 and 9.09 per cent in first crop season and in second crop season 67.93 per cent of *E. coli* and 17.18 per cent of salmonella were obtained.
- In both the season maximum number of isolates obtained from day 35 from boot socks, fecal swabs, ileal and cecal samples.
- Antimicrobial resistance based on disc diffusion assay and MIC revealed that all *E. coli* and *Salmonella* isolates were resistant to at least one antibiotic. *E. coli* and *Salmonella* showed highest resistance to ampicillin, enrofloxacin, and doxycycline in both the season.
- In both the crop seasons the maximum AMR genes in *E. coli* and *Salmonella* were found in boot socks, ileal and cecal contents and fecal swabs. Thus, these may be the driving factors for AMR. Also, on day zero high
- According to the result obtained from the analysis there is no changes in AMR pattern due to seasonal changes.
- The findings of the study emphasize the need of efficient monitoring and institution of control strategies for effective mitigation of AMR in all the five broiler farms.

#### **Title: Molecular Epidemiology of Mycoplasmosis in sheep and goats in Karnataka**

- Samples such as Serum (465), Nasal swabs (465) and Tissues (18) were collected from sheep and goats of Bengaluru, Kalburgi, Mysore and Belagavi divisions. Serum samples were subjected for serodiagnosis by SAT and Mab based cELISA. Other samples were screened for presence of *Mycoplasma* by isolation and PCR.
- Seroprevalence of Mycoplasmosis in sheep and goats: 465 serum samples from sheep (223) and goats (242) were subjected for slide agglutination test (SAT) using *Mycoplasma* antigen (*M. mycoides subsp. Capri*, *M. agalactiae* and *M.*) procured from IAH & VB, Hebbal, Bengaluru for seroprevalence study. The slide agglutination test had revealed 98.06 per cent seropositivity. In monoclonal antibody based *Mycoplasma capricolum* subsp. *Capripneumoniae* (*Mccp*) specific competitive ELISA, an overall seroprevalence of 18.70 per cent was observed in sheep and goats against *Mccp* infection, with 9.42 per cent and 27.27 per cent in sheep and goats respectively. The seropositivity of 9.32, 7.69, 44.31 and 24.73 per cent was observed in sera samples from sheep and goats in Bengaluru, Mysuru, Kalburgi and Belagavi divisions respectively.
- Isolation of *Mycoplasma* from samples: Nasal swabs and tissue samples were subjected for isolation of *Mycoplasma* in PPLO broth and PPLO agar supplemented with 15 per cent swine serum, 10 per cent yeast extract, 0.5 g/ml sodium pyruvate, 0.0005 g/ml thallium acetate, 0.5 g/ml glucose, 2,50,000 units/100 ml Penicillin and phenol red solution (0.6% in 0.1 M NaOH). Microcolonies with typical 'fried egg' appearance were observed and were stained by Diene's stain. Thirty-two *Mycoplasma* isolates were obtained. These isolates were identified as *M. ovipneumoniae* and *M.* by species specific PCR.

- Detection of Mycoplasma by PCR: The PCR was carried out using Mycoplasma genus specific and species specific primers. Seventy five (14.59%) samples were positive for Mycoplasma genus specific PCR. Species-specific PCR yielded, *M. ovipneumoniae* (21), *Marginini* (13) were identified and 41 as unidentified Mycoplasma species.
- Nucleotide sequencing and Phylogenetic analysis: The purified partial gene PCR products of both, *M* and *M. ovipneumoniae*, were sequenced. A comparative analysis of nucleotide sequences was performed using the CLUSTAL W multiple sequence alignment and phylogenetic analyses were done using *M. ovipneumoniae* isolates of the study revealed that they were clustered with *M. ovipneumoniae* of Turkey, UK and ATCC strain with query cover of 97 per cent and 100 per cent identity from BLAST analysis. Four sequences from *M. ovipneumoniae* were submitted to GenBank with accession numbers of OP801624, OP801625, OP801626 and OP801627. The phylogenetic analysis of two of *M.* isolates were found to be highly identical, exhibiting >98 per cent identities with a 100 per cent query cover that of the standard *M.* (ATCC 23243) strain.

**Title: Evaluation of apoptosis inducing potential of rutin loaded chitosan nanoparticles**

- MCF-7 cells upon treatment with rutin and rutin loaded chitosan nanoparticles at their respective IC50 at 48h incubation showed increase in cytotoxicity potential in terms of early apoptosis and G2/M phase cell cycle arrest

**Title: Supra cutaneous bone plating for the repair of metatarsal bone fractures in Bovines**

- Six bovine clinical cases with compound metatarsal fractures were selected and were stabilized by supercutaneous plating technique using special 4.5 mm/ 5.0 mm locking compression plates and locking head screws.
- Occurrence of metatarsal fracture was more in less than a year age of calves and relatively more males were affected.
- Based on the observations of the study, it could be concluded that the supercutaneous plating technique for the repair of metatarsal fractures in bovines showed effective immobilization of the fracture fragments, easy to apply, minimally invasive, adaptable and feasible to be used in the field conditions.

**VETERINARY COLLEGE, BIDAR**

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

- The present study revealed that the recovery rate of repeat breeding buffaloes with subclinical endometritis was higher in buffaloes treated with Cephapirin (83.33 per cent) as compared to proteolytic enzyme and LPS (33.33 and 66.66 per cent) treated buffaloes indicating Cephapirin (Metricef®) antibiotic to be better drug of choice for subclinical endometritis.
- In the present investigation higher percentage of conception rate obtained after treatment with Cephapirin (66.66%) as compared to group II, III and IV.
- To conclude based on recovery rate and conception rate, Cephapirin (Metricef®) was effective as compared to other groups. However, the number of animals in the study was less hence the needs validation using larger sample size.



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

- To know the operating procedure of phacoemulsification machine and operating ophthalmoscope with use of goat cadaver eye ball and practice phacoemulsification as an pilot study. The budget was utilised and procured the materials. The operating and phacoemulsification machine was made use in practice by the staff and students of surgery department.

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

- Perform ovariohysterectomy in dogs and abdominal muscle wound closure with polyglecaprone 25 and polydioxanone absorbable sutures. Followed by histopathological and electron microscopic evaluation showed both sutures are suitable for closure of wound. Both are monofilament and showed non inflammatory reaction.

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

- Evaluate and diagnose the surgical conditions of animals presented to department of surgery followed by treatment of the surgical conditions presented to department of surgery. The cases presented were corneal opacity, corneal injury; squamous cell carcinoma, corneal ulcer, warts and conjunctivitis. The diagnostic tests used were neurological test, STT, FDT and indirect ophthalmoscopy. The surgical treatment performed were corneal suturing, Kerectomy, superficial keratoplasty, tarsorrhaphy, membranoplasty, evisceration of eye ball and extirpation of eye ball.

### **Title: Epizootiological, diagnostic and therapeutic studies on lumpy skin disease in bovine in Bidar, Karnataka**

- The point prevalence of LSD recorded in Veterinary Clinical Complex, Veterinary College Bidar during 2020-21 in cattle was 18.85 %.
- The important clinical signs noticed in LSD affected cattle were skin nodules (100 %) lymph node enlargement (89.82 %), fever (62.39%), oedema (46.90%), inappetence/ anorexia (40.27 %), lameness (14.16 %), respiratory distress (2.65 %), corneal opacity (1.77 %) and recumbency (0.88 %).
- Climatological study revealed that, THI and rainfall showed positive correlation with occurrence of LSD. Climate with rainy, warmer and humid environment during outbreak period might have favoured the occurrence of LSD in Bidar district.
- Abundant and most common vector present in infected farms of Bidar district was Haematobia fly (Horn fly), which was one of the suspected vectors of LSD
- Detection of LSDV infection using polymerase chain reaction revealed out of 26 tissue samples 17 (65.38 %) were found positive in PCR for LSD for P32 and F gene with 192 bp and 472 bp respectively
- Phylogenetic analysis revealed that the current study isolates were having 100 per cent nucleotide homology with LSDV isolates from Odisha state

**Title: Development of nanoemulsion based tissue preservatives**

- Standardization of the methodology for preparation of nanoemulsions by using ultrasonication bath
- Prepared Oil-in-Water nanoemulsions of phenoxyethanol and glycerol with tween 80 as surfactant. Initially, appropriate amounts of surfactants and oils were mixed under mild stirring at room temperature for 30 min. constant magnetic stirring.
- Characterized the prepared nanoemulsions (using the Malvern Zetasizer NanoZS analyser) and the results were as follows;

	Average Particle size (nm)	Polydispersity Index
Phenoxyethanol based nanoemulsions	12.26	0.588
Formalin based nanoemulsions	296.0	0.540

- evaluated their preservative capacity using visceral organs of piglets procured during post-mortem examination

**Title: Determination of the mitigation effects of yeast cell wall extract in broilers fed diet naturally contaminated with Fusarium toxins**

- *Fusarium* contaminated diets adversely affected performance, serum biochemistry, liver function, immune response, altered cecal SCFA goblet cell count and architecture of intestinal villi. These adverse effects were reduced in birds fed Post-biotic yeast cell wall extract and to a lesser extent YCWE, indicating protection against toxic assault. PYCW yielded better production performance and stimulated liver function, with higher response to NDV and IBV vaccination. YCWE, when complemented with nutritional add-ons (PYCW), could potentiate the remediation of the negative effects from a multi mycotoxins dietary challenge in broiler birds.

**Title: Effect of yeast selenium on production performance, egg quality and selenium deposition in laying hens**

- Layer birds in peak production were supplemented with either zero or sodium selenite or partial or complete replacement of sodium selenite with yeast selenium. Results indicated no effect of level or source of selenium on hen day egg production, feed efficiency, fertility, hatchability and egg quality parameters. Significantly higher egg Se deposition in yeast selenium supplemented group in fourth week and eighth week of the trial was recorded. Yeast selenium showed consistency in increased Se deposition. Significantly higher levels of Glutathione Peroxidase and catalase was observed in both yeast selenium and Selsaf (commercial product from market) groups, however, yeast selenium was better than Selsaf in terms of catalase activity

**Title: *In vitro* Protein Quality Evaluation of Soybean Meal Used By Livestock Feed Manufacturers**

- The SBM must be routinely evaluated to ensure they are safe, contain the specified nutrients as per standards and ensure the finished feed quality help in formulating the feeds which intern will optimize the animal performance. Along with the proximate analysis, urease activity and other protein quality assessment must be routinely assessed for SBM quality.

## **Title: Validation and calibration of chemical composition of selected feed ingredients with NIR-Spectroscopy**

- Forty samples of each maize, Deoiled rice bran and Soybean meal samples were collected from different regions of Karnataka (type of soil, Fertility and variety) during the year 2021 and 2022 and were analyzed for chemical composition as per AOAC (2016) and by invitro analysis (Tilley and Terry method). The results obtained outoff chemical analysis were used for calibration of near infrared reflectance instrument. After the calibration the parameters like moisture, crude protein, ether extract, crude fiber and total ash were checked to validate the accurance of the equipment and results are as follows: The mean moisture percent of maize in analytical method and NIR was 8.93 and 9.02 respectively and the correlation coefficient ( $R^2$ ) between the two analytical methods was 0.80 which indicated a moderate correlation between the two methods of analysis. The mean crude protein (CP) values of chemically analyzed and NIR method was 8.59 and 8.6 percent respectively which showed a strong correlation ( $R^2$  -0.88). Similarly ether extract (EE) mean value was 3.62 and 3.63 for chemically analyzed and NIR estimated respectively, with the correlation coefficient ( $R^2$ ) of 0.81. Mean Crude fiber (CF) and total ash (TA) values in chemically analyzed and NIR method were 1.38; 1.36 and 1.63; 1.61 respectively both the parameters showed moderate correlation of 0.81 and 0.84 respectively. Based the  $R^2$  values of various parameters it can be concluded that the NIR method may be used to estimate proximate composition of maize grains in Karnataka region.
- The mean moisture percent of DORB in analytical method and NIR was 6.49 and 6.54 (Table 2) respectively and the correlation coefficient ( $R^2$ ) between the two analytical methods was 0.82 which indicated a moderate correlation between the two methods of analysis. The mean crude protein (CP) values of chemically analyzed and NIR method was 14.51 and 14.45 percent respectively which showed a correlation ( $R^2$  0.84). Similarly ether extract (EE) mean value was 0.64 and 0.65 for chemically analyzed and NIR estimated respectively, with high correlation coefficient ( $R^2$ ) of 0.90. Mean Crude fiber (CF) and total ash (TA) values in chemically analyzed and NIR method were 13.52; 12.70 and 13.72; 12.83 respectively both the parameters showed moderate correlation of 0.78 and 0.83 respectively. Based the  $R^2$  values of various parameters it can be concluded that the NIR method may be used to estimate proximate composition of DORB in Karnataka region.

## **VETERINARY COLLEGE, HASSAN**

### **Title: Promotion of Desi chick rearing for sustainable income to scheduled tribe women at Hassan:**

- Hands on training on Desi chick rearing given for 300 Scheduled Tribe women farmers upon community brooding of chicks at village level.
- Majority of ST women farmers continued backyard native chick rearing as a subsidiary acitivity for the purpose of meat and egg.
- The growth performance of native chicks was better in intensive system followed by semi-intensive and extensive system.
- Rearing of chicks under extensive system and semi-intensive is more economical for farmers than intensive system.
- The birds reared under semi intensive system had spent significantly higher time on investigating, walking, dustbathing, preening and lying behaviour than birds reared under intensive system
- Intensively housed birds spent relatively more time on standing, drinking and feeding behaviour than birds reared under semi intensive system
- There was a significant difference in BW and BWG between the rearing systems and the higher BW and BWG was recorded under intensive system of rearing.

- Eggs laid under semi intensive system had higher egg weight, shell thickness, haugh unit and yolk colour when compared to eggs laid under intensive system.
- The outdoor access provides enriched environment for native layer birds and facilitates the expression of natural behaviors with no adverse effect on egg quality and livability

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

#### **Pork consumption behaviour of consumers:**

- Pork (40%) and Chicken (32%) are the most preferred meat than mutton (21%) and Fish (7%) and the consumers were of the opinion that red meat i.e., mutton (23%) and Pork (45%) was tastier than white meat i.e., chicken (19%) and fish (13%).
- Consumers felt white meat i.e. Chicken (43%) and fish (44%) have better digestibility compared to pork (12%) and mutton (1%). Consumers opined that mutton (53%) and Pork (23%) were costlier than chicken (18%) and fish (4%).
- Around 29 % of the pork eaters have pork from hotels, friends house or other places as cooking of pork is not allowed at their homes. Even though consumption frequency greatly varied from daily to occasionally, majority of consumers, eat pork twice a week (25%) or occasionally or once in a month (25%).
- While Sunday is the most preferred day (100%), 34% of consumers don't mind eating on any day of the week. Religious sentiments (38%) and non affordability (25%) were the major reasons for non consumption of pork every day.
- About 42% of consumers do not mind consuming pork in any season, where as summer (22%) and winter (22%) are equally preferred and rainy season (14%) is the least preferred season for pork consumption.
- About 20% of the respondents abstain from pork consumption during Sharvana or Karthika masa of Hindu calendar months or during festival months however, about 32% of consumers do not mind consuming pork during the period. Even though 80% of the consumers feel eating pork as healthy, 3% of consumers feel it is unhealthy to consume pork.

#### **Retailers Pattern:**

- Majority, 92% of the retailers do not have their own piggery (breeding pigs) and purchase pigs from others. Pigs are purchased from traders who normally trade local indigenous pigs from out of Hassan district usually from northern Karnataka and Andhra Pradesh once or twice a week.
- Significantly higher proportion of retailers purchase animals either on daily basis (46.8%) or on weekly basis (34%) compared to those purchasing once in fortnight (19.2%). The small traders who purchase animals regularly opined that lack of space and feed as the major reason for not purchasing in spite of higher profits on bulk purchase of animals.
- The average purchasing price of animal is Rs.120 /kg of live weight (range Rs.100 to Rs.135 based on demand, body condition of the animal). Average selling price at their outlets is Rs.200/ kg. (The price may vary from Rs.180 to 220 /kg based on demand, bulk purchase, clear off the stock of the day). Indigenous pigs of around 40 – 60 kgs are in high demand. Retailers sacrifice and sell around 2 – 8 pigs per day. They opined that selling of at least 3 or more pigs per day works out to be profitable.
- Majority (73%) of the retailers hire labour on monthly basis to assist in all activities (transit of pigs, feeding, slaughter, sales etc.,). The average salary paid to these labour is Rs. 15,000 /month (Range 10,000 to 20,000/-) for a period of 12 hrs (7.00 am to 7.0 pm) per day.
- Retailers opined that 63.8% of customers demand for muscular meat portion exclusively thigh region where as 23.4% does not mind inclusion of fatty portion of meat. Of the edible organ portion, the most sought are liver (41%), followed by heart (15%), intestine (11%), lungs (12%), and others / mixed (20%).



## VETERINARY COLLEGE, GADAG

### **Title: A Study to assess the Herd Composition and Herd Dynamics of Gaushalas in Gadag and surrounding districts**

- Twenty-one gaushalas in the study area comprising of five districts (Gadag, Koppal, Dharwad, Bagalkot & Haveri) are visited. Herd composition and Information on breeds maintained and information on breeding activities, in each of the gaushala were documented. Out of 21 gaushalas, 12 were managed by trusts and 9 were managed by religious institutions. In total, there were 3190 animals (1775 cows, 375 male calves, 589 female calves, 330 bulls and 121 bullocks) of various breeds like Khillar, Hallikar, Gir, Malnad Gidda, Amrith Mahal, Kankrej, Deoni, Ongole, Krishna Valley, Bargur, Kasargod, Non-descript & also Crossbreds. Inflow of cattle to gaushalas is due to - Cattle abandoned by owners/donated, stray cattle brought by Gaushala management, Stray cattle left by district administration, Purchased by Gaushala management. Few gaushalas managed by religious institutions were maintaining bulls of each breed for natural service. (Eg: Siddharuda math gaushala, Hubli, Manoratha gaushala, Banashankari, Bagalkot dist.). Based on external appearance, their health status was assessed and found that out of 1775 cows, 696 cows were found fit for breeding. In conclusion, Cows comprised more than half the herd in the gaushalas and they were mainly run for purposes of compassion, religious considerations, and rehabilitation. Only few goshalas in the study area took interest regarding value addition to products like dung, urine (Shivayoga Mandir gaushala, Bagalkot district). Unlike many other goshalas (specially of North India), the one in study area need to gear up regarding cattle improvement and conservation of breeds of the region. There is a great possibility of improving the livestock wealth of Gaushalas if suitable interventions are assessed and provided at appropriate time.

### **Title: A Study on the Indigenous Cattle Reared Under Mobile Pastoral System In Karnataka**

- Migratory herds of cattle in the North eastern part of Karnataka were studied. Herd size varied from 40-750. These cattle were moved from one place to another throughout the year with penning in the farmer fields during night hours. Major communities rearing migratory cattle are Yadava (Golla), Kuruba and Lambani, etc. Animals were kept under zero input system of management. Small herds were pooled to form big herds during migration. Identification of their animals is through cutting ears differently and branding. Generally, the animals were penned in agriculture fields for which they are paid in cash or in kind (grains) based on the agreement between the land owner and the herder. Herders migrated with all family members-women and children. The herders followed different routes of migration depending on the availability of food, water, and demand of penning. Usually, they were grazed in the paddy fields when there is no crop during November to January and April to July. The cattle reared by mobile pastoralists resembled Khillar cattle but smaller in size. The physical characters of migratory cattle are documented as per the Breed Descriptor of NBAGR. Cows are White in colour and Bulls are White, Grayish white, fawn and black (rarely seen) with furious temperament. The various morphometric measurements of sample cows are taken like Body length: 122 cms, Chest girth: 148 cms, Height at withers: 122 cms, Horn length : 39 cms, Ear length : 18 cms and Face length : 46 cms. Bullocks of this genetic group are active, strong, and well suited to agricultural operations in the area. So male calves are in high demand. On discussion with migratory herders, it has been revealed that they were facing many difficulties with regard to grazing in forest area and were expecting incentives for maintaining indigenous cattle or financial assistance from Govt.

**Title: Studies on antimicrobial resistance, genetic diversity and pathogenesis of some zoonotic bacterial intracellular pathogens of public health significance**

- A total of 80 cattle, 10 buffaloes and 10 pigs from organized farms have been screened for brucellosis by Rose Bengal Plate Test (RBPT) / Milk Ring Test (MRT) / indirect Enzyme Linked Immune Sorbent Assay (iELISA); 20 cattle and 5 buffaloes were screened for mycobacteriosis by single intradermal tuberculin (SIT) test and Ziehl-Neelsen's (ZN) acid fast staining. Out of 80 cattle and 10 buffaloes screened for brucellosis, 8 cattle were found positive for the brucellosis by RBPT and iELISA. All the buffaloes and pigs tested were negative for brucellosis. Out of 20 cattle and 5 buffaloes screened for mycobacteriosis, no animal was found positive by SIT. However, six cattle were found positive for acid fast organisms in faecal sample by ZN staining which had chronic diarrhoea. All the buffaloes tested were negative for mycobacteriosis. Molecular identification of genus and species of *Brucella* by polymerase chain reaction (PCR) revealed that, out of eight positive cattle, three cattle were infected by *B. abortus* and three cattle with *B. melitensis*. In remaining two animals, only *Brucella* genus was identified by PCR. The molecular identification of genus and species of *Mycobacterium* in the six faecal samples positive for AFS revealed only genus *Mycobacterium* in five samples by PCR and none of them belonged to either *M. tuberculosis* or *M. bovis*. The gross pathological changes in affected animals showed muscular atrophy, gelatinous fat atrophy in omental, mesenteric, pericardial and perirenal fat. Thickening and corrugation of intestines especially at ileocaecal junction were observed. Chording of mesenteric lymphatics with enlarged and oedematous lymph nodes were seen. Caseation and calcification in mesenteric lymph nodes were observed in few animals. The histopathological changes in affected animals showed microgranulomas (paucibacillary) with few epitheloid cells. Small granulomas were observed mostly in villi followed by lamina propria and lymphoid follicles. The granulomas contained few macrophages with clear and large nuclei and abundant cytoplasm with heavy infiltration of lymphocytes. Large granulomas (multibacillary) characterized by extensive infiltration of macrophages and epitheloid cells along with acid fast organisms. Extensive caseation and calcification in mesenteric lymph nodes were noticed in few cases.

**DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU**

**Title: Technology for the development of millet based RTE functional Paneer Bite**

- The present research was undertaken to explore the innovative possibilities for developing Paneer bite by utilizing the functional ingredients. The research findings emphasize that the final optimized paneer Bite possess Jaggery -30%, Desiccated coconut-15%, Curcumin-0.3%, Foxtail millet-2%, WPC-2%. The final product was packaged in Metallized polyester adopting Modified Atmospheric Packaging Technique (MAP). The storage studies revealed that the functional RTE Paneer Bite had the shelf stability about 80 days at Refrigeration temperature.

**COLLEGE OF FISHERIES, MANGALURU**

**Title: Protective efficacy of formalin-inactivated vaccine against Red Seabream Iridovirus (RSIV) in Asian Seabass (*Lates calcarifer*)**

- The virus used in the study was initially isolated from diseased Asian seabass and stored at -80°C. Confirmation of the RSIV was done by extracting the virus DNA from spleen and kidney tissues of infected fish.
- The results of the PCR assay showed a 568bp targeting DNA polymerase gene of the RSIV. Further, RSIV was propagated using cell lines under *in-vitro* conditions using the virus extracted from the spleen and kidney tissues of infected fish was inoculated onto SISK cell lines.



- Cytopathic effect (CPE) was observed in RSIV infected cells from 2<sup>nd</sup> post infection, which included rounding and enlargement of cells followed by cell death on the 7th day. The harvested virus stock was quantified by endpoint dilution assay and found to contain 10<sup>6.3</sup> TCID50/ml.
- Inactivation of the virus was performed using 0.1% of formalin for 10 days in 4°C and confirmed by negative CPE in SISK cells after 2-3 blind passages and then formalin inactivated virus (FIV) was stored in 4°C until use.
- Further, efficacy of FIV was carried out against RSIV in Asian seabass. Vaccinated fish did not exhibit typical clinical symptoms of RSIV infection and mortality is less, therefore the FIV was safer to use.
- After 21dpv fish were challenged with virulent RSIV-LC strain and after 14dpc relative percentage survival (RPS) was calculated. Asian seabass immunized with FIV showed high level of protection with a RPS value of 83.3%.
- Therefore, further investigations are required to assess the efficacy of formalin inactivated vaccine in field level trails & also commercialization of the developed vaccine in aquaculture against RSIV infection.

**Title: Studies on the effect of Ring seine operated with Outboard motor engine along Mangaluru coast**

- The Ring seine operation was carried out at a depth of 10 m and 20m to know the catch composition at both the depths by using traditional fishing craft fitted with 40 HP out board motor engine. The highest catch obtained at a depth of 20 m. Hence, it can be concluded that the traditional fishing craft fitted with 40 HP out board motor engine was found suitable and economically viable for the Ring seine operation along the Mangaluru coast.

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

**Title: Evaluation of glycoprotein E gE deleted Bovine herpesvirus-1 BoHV-1 as infectious bovine rhinotracheitis IBR Marker vaccine candidate in Cattle”**

- The study developed and evaluated the glycoprotein E (gE) deleted Bovine herpesvirus-1 as a marker vaccine. The glycoprotein E (gE) deleted Bovine herpesvirus-1 vaccine was found very potent and effective in controlling the challenge with virulent BoHV-1 and was completely protective against infectious bovine rhinotracheitis in cattle. The research was done in collaboration with IVRI, Bareilly and Biovet, Malur.

**Title: DBT Network Programme on Bovine Tuberculosis Control: Mycobacterial Diseases in Animals Network (MyDAN) program**

- DNA panel has been prepared from 10 pure isolates by TANUVAS
- Multiplex PCR kit for identification of *Mycobacterium orygis* strain and its differentiation from *M. tuberculosis* and *M. bovis* by TANUVAS
- Purified Protein Derivative prepared from *Mycobacterium orygis* strain (PPD-O) – An alternative to PPD-Bovine used for tuberculin skin testing in bovines has been developed and is ready for technology transfer by TANUVAS
- Five hybridoma clones producing monoclonal antibodies are selected for scale up by TANUVAS. The scaled up supernatants from the above mentioned clones were found to be reactive rIFN $\gamma$  by ELISA.
- Three different PCRs are developed for differential diagnosis of MTBC and NTMs as well as species-level confirmation of MTBC by IVRI.

- Duplex PCR for simultaneous detection of *Mycobacterium* spp and MTBC.
- Real-time PCR for detection of MTBC in milk.
- Conventional multiplex PCR assays for species-level detection of MTBC like *M. bovis*, *M. tuberculosis*, *M. orygis*, *M. caprae* as well as *M. bovis* BCG.
- Fluorescence Polarization Assay has been developed by GADVASU for detection of humoral immune response using ESAT-6, CFP-10 and MPB83+MPB70. The MPB83+MPB70 (20ug) had 100% sensitivity, 92.6% specificity and the AUC was 0.968.

### **Title: Standardization and Production of Species-specific anti-Snake Venom from Chicken Eggs**

- Procurement of 4 species of snake venom (Indian cobra, Common krait, Russell's viper and Saw-scaled viper) from The Irula Snake Catchers Industrial Co-Operative Society, Tamil Nadu was done.
- A pilot scale poultry housing 40 layers aged 20 weeks was set up at KVAFSU Poultry Farm exclusively for the production of ASV eggs.
- Immunization of these chickens with four species of snake venom was carried out after formulating the snake venom with adjuvants. A primary dose and 2 booster doses were administered. Eggs were collected on a daily basis.
- Extraction of IgY was done by separating the egg yolk from the eggs collected from the immunised chicken against the four venoms. Further, it was delipidated. IgY was precipitated using ammonium sulphate/PEG6000. Precipitated IgY was further purified by dialysis in 0.1 N NaCl.
- The dialyzed IgY was further purified by Bio-Rad Duo Flow Liquid chromatography unit using High-Q prep repacked column followed by CHT-II polisher.
- The Ion-exchange chromatography purified IgY was subjected to SDS-PAGE followed by western blot for confirmation.
- Successfully purified and developed polyvalent antsnake venom (ASV).
- The *in vitro* neutralization studies indicated that 4.2 mg/mL of polyvalent ASV successfully neutralized 2 LD<sub>50</sub> of venom of all 4 snakes.
- Toxicological studies in mice, rats and rabbits indicated that the ASV developed is found to be safe in laboratory animals.

### **LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED**

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

- Infrastructure for a modern Deoni cattle unit was created at Livestock Research & Information Centre (Deoni), Bidar.
- The facilities created can house 50 adult cattle and followers, thus leading to greater genetic improvement in the breed.
- Purchase of elite animals on limited basis under the project was undertaken to prevent inbreeding and hasten breed improvement.
- Loose housing design was adopted at the farm to enhance dairy cattle welfare and productivity.
- Modern farm equipment was procured for enhancing farm efficiency and reducing labour requirements.
- The unit served as a model for establishing large-scale indigenous dairy cattle farms in the region.
- Many farmers were trained in scientific livestock management practices using the facilities created under the project.

### Technology Developed

- Low-cost loose housing dairy cattle shed design for black cotton soils.
- Training modules for efficient dairy cattle farming.
- Scientific rearing practices for Deoni cattle.
- Profitable fodder varieties and rearing practices for North-East Transition Zone.

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

- Baseline survey in 06 project villages during Dec, 2020
- Awareness/Capacity building programmes on identified interventions conducted
- On – Farm Demonstrations and field visits
- Distribution of concentrate feed during transition period in goats
- Distribution of Giriraj backyard poultry birds (3 weeks old)
- Distribution of poultry feed to the beneficiaries
- Developed extension literature for the benefit of farmers
- Renovation of poultry shed at Veterinary College, Bidar
- Construction of new poultry shed at VCB
- Construction of Store room for poultry shed at VCB
- Distribution of bucks to identified beneficiaries (who possess at least 10 does)
- Preparation of project report on outcome of the project activities in progress

### Technology Developed

- No new technologies were developed. However, the available technologies/scientific practices were disseminated to the farmers.

## 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. 33,36,360/- 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.

**Overall Conclusion from the three studies, 1) Validation of Dose, 2.) Validation of Duration, and 3) Development of vaccine protocol**

- Catla (*Catla catla*) and Rohu (*Labeo rohita*) were orally vaccinated with biofilm of *A. hydrophila* at  $10^{10}$ ,  $10^7$ ,  $10^{13}$  CFU/g fish per day for 15 days. The antibody titre (MAb ELISA) was higher at  $10^{10}$  than at  $10^7$  or  $10^{13}$  cfu/gfish/day measured post vaccination (DPV) i.e., 0, 10, 20,30,40,50 and 60 day. Antibody titre was significantly higher in biofilm vaccinated Catla and Rohu compared to that in the control. The protection level ( RPS) in fish challenged with *A. hydrophila* at 20, 40 and 60 day post vaccination(DPV) was highest with  $10^{10}$  fu/gfish/day. Among the 3 durations T1 (10 days), T2 (15 days) and T3 (20 days), fed with *A hydrophila* biofilm oral vaccine at  $10^{10}$  CFU/g fish per day, antibody titer in the serum was higher with 15 days vaccination compared to that with for 10 and 20 days. The higher antibody titer also reflected with higher RPS in T2 compared to that in T1 and T3. Based on antibody titre and consistency and high percentage survival upon challenge , vaccine protocol in T3 with primary dose followed with two boosters, first one at 60 and second at 120 DPV is recommended for Catla and Rohu. Interestingly, growth of biofilm oral vaccinated Catla and Rohu during studies on validation of dose and Vaccine protocol development was higher at all doses compared to that in the control.





**Experimental set up for Biofilm production**



**Biofilm after the harvest**



**Preservation of *A. hydrophila* in TSA slants**



**Experiment of TPC to count the Biofilm cells**



**Experimental tanks**



**Dragging of the fishes to monitor and record the growth and survival**

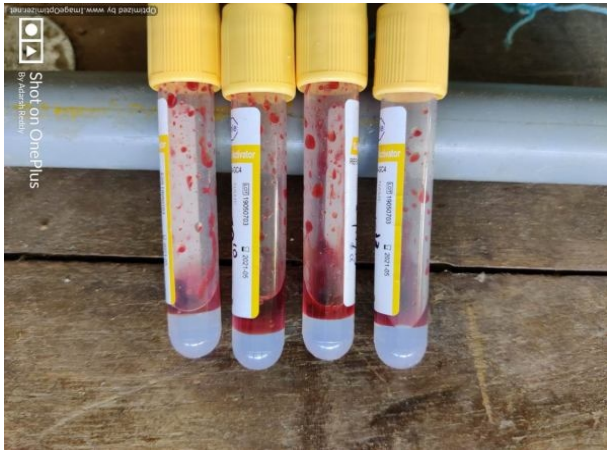




**Fish Feed Preparation**



**Collection of the blood from fish**



**ELISA Test conducted to calculate the Antibody titre value**



**Visit by Virbac Representative Dr. Ramprakash to investigate the project results**



## FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

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

- A significantly high feminization percentage ( $98.27 \pm 0.87$ ) was observed with 300 mg/Kg feed of 17 beta estradiol
- At higher concentration of 300 mg/Kg feed, the hormone significantly enhanced the growth in terms of weight ( $55.39 \pm 0.67$ g) when compared to the treatments T1 , T2 and Control
- At higher concentration of 300 mg/Kg feed, the hormone significantly enhanced the growth in terms of length ( $55.39 \pm 0.67$  cms) when compared to the treatments T1 , T2 and Control
- A significantly lower percentage of survival was observed at the hormone concentration of 300mg/Kg feed ( $62 \pm 1.53$ )
- Out of the eight surviving males of F1 progeny, only two males were identified to be super males and produced all male progeny in F2 generation with 79 and 47 no.s (200 gm size)
- Production of hormone- free all male population of Nile Tilapia, *Oreochromis niloticus* through the development of YY super male

## FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

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

- The two stages broodstock rearing of pearl spot has been carried out. First stage Pearl spot seeds are collected from the wild reared in the earthen ponds up to the attainment of 50g fed with pelleted feed. Pearl spot (*Etroplus suratensis*) weighing 50g were then transferred to the brood stock rearing pond and fed with formulated broodstock diets to achieve the maturity.
- Pearl spot (*Etroplus suratensis*) brood stock has been developed by feeding dietary feed prepared for brood stock development under the SRP project.
- The breeding trials are in progress and the production of pearl spot seeds has carried out for sustained supply of seeds for the needy farmers along coastal Districts of Karnataka.
- Backyard hatchery system of pearl spot for breeding and rearing in earthen ponds has been developed. In pond breeding programmes for pearl spot, the most difficult part is the collection of the seeds from the ponds which is mainly by castnetting or by pond drying. Both the methods are again expensive and cause mortality in considerable quantity. In this aspect also the present method of captive seed production is a better alternative.

## 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>					
AGB	Genetic polymorphism of MHC class II DRB exon 2 gene in goats of Karnataka	KVAFSU, Bidar (SCSP)	0.90	2022	Basavraj Inamdar
LFC	Identifying Nucleotide variabilities in <i>BMP15</i> gene of sheep ( <i>Ovis aries</i> )	KVAFSU, Bidar (SCSP)	0.90	-	Shankarappa Bhajantri
VBC	FIST, DST	DST, Delhi	59.50	2015	Ramesh, H.S.
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 Animal Health India, Pvt.Ltd.	4.10	2022	Suchitra, B.R.
VMC	Programme for strengthening intersectoral coordination for prevention and control of zoonotic diseases Renamed as (National One Health Programme for Prevention and Control of Zoonotic Diseases (NOHPPCZ)	NCDC, Govt.of India.	30.20	2019	Shrikrishna Isloor
VMC	Development and external validation of recombinant G protein based quantitative ELISA for seromonitoring post-antirabies vaccinal antibody responses in dogs” PHASE II	DBT, Govt. of India, New Delhi	38.07	-	Shrikrishna Isloor
VPA	Development of point of care diagnostics for the diagnosis of Theileriosis and Babesiosis in cattle	SERB	18.00	2018	H. Dhanalakshmi
VPT	Canine mammary cancer stem-like cells derived exosomal miRNAs: understanding the biology and developing diagnostics	DST – SERB, Govt. of India	18.30	2021	Rashmi, R.
VPT	Identification and characterization of DNA methylation an epigenetic marker in cancer stem cells of canine mammanry tumors	GoK SCSP/ TSP Grants,	0.90	2022	Rashmi, R.

VPY	Immunomodulatory and Anti-oxidative effects of Nanoselenium in Wistar Albino Rats	SCSP/TSP Grants	0.90	2021	Veena, M. P.
<b>VETERINARY COLLEGE, BIDAR</b>					
LPM	Evaluation of herbal growth promoters as replacement of antibiotic growth promoters	Avi tech nutrition	3.90	2022	Vidyasagar
VPT	Pharmacological and phytochemical evaluation of medicinal plants in herbal garden of Veterinary College, Bidar	SCP-TSP Grants, GoK	0.75	2023	Prashantkumar Waghe
<b>VETERINARY COLLEGE, SHIVAMOGGA</b>					
LPT	Effect of natural tenderizers on mutton chunks in the preparation of mutton curry	KVAFSU	-	2022	Chidanandaiah
LPT	Establishment of <i>Gau</i> -Products Research and Evaluation Laboratory	Pashupalana Bhavan, Bengaluru	36.98	2023	Chidanandaiah
LFC	In vitro evaluation of some perennial fodder grasses for metabolizable energy, fermentation characteristics and microbial biomass synthesis efficiency.	TSP Grants	0.50	2021	Thirumales, T.
AGB	A study on the role of socio-cultural and environmental factors involved in human and pet/domestic animal interaction	ICMR	18.35	2021	R. Jayashree
AGB	Grassland management system for small holders having Malnad Gidda cattle (GMSMG)	RKVY	49.60	2021	R. Jayashree
LPT	Cattle co-products Research and Evaluation Cell (CREC)	GOK	36.97	2021	Chidanandaiah
LPM	Comparative evaluation of different binders to ameliorate the toxicological effects of multiple mycotoxins in broiler chicken	M/s Nutreco, Netherland	11.86	2020	Malathi, V.
LPM	Effect of different binders on Performance and Health of broiler chicken fed Aflatoxin contaminated diet	M/s Nutreco, Netherland	11.16	2022	Malathi, V.
LPM	Determination of the beneficial effects of yeast cell wall extracts in alleviating the toxic effects of <i>Fusarium</i> toxins in piglets	M/s Alletch, Kentucky, USA	8.31	2022	Malathi, V.

LPM	Effect of Probiotics as an alternate to antibiotics on production performance, Immunocompetence and Gut health in broiler chicken	M/s Ponni Symbiolog icals Pvt Ltd, Tamil Nadu	4.04	2023	Malathi, V.
VPT	Therapeutic Intervention of Unproductivity In cattle to augment the Organic Farming	OFM, Dept. of Agriculture GoK	50.00	2021	Shridhar, N.B.
VCC and VPT	Establishment of Research Center to promote Ayurveda in Veterinary Science at Veterinary College, Shivamogga	DAH&VS, GoK	50.00	2021	Ravindra, B.G.
<b>VETERINARY COLLEGE, HASSAN</b>					
VAN	Histomorphometric characteristics of the corneal layer of hoof capsules of Amruthmahal Cattle ( <i>Bos indicus</i> ).	SCSP/ TSP Grants 2018-19	0.50	2021	Rajashailesha, N.M.
VPE	Evaluation of indigenous medications for the control of ticks and mastitis in dairy cattle	NIF, Dept. of Sci. & Tech., GoI	9.13	2020	Nagappa Karabasanavar
VPE	Influence of a topical herbal formulation on the milk concentration of inflammatory marker molecules in subclinically mastitic cows	Ayurvet Limited., Baddi, Solan, H.P.	2.10	2020	Nagappa Karabasanavar
VPE	Evaluation of efficacy of a combination of herbal liver tonic and ointment in hepatic photosensitiy in catle	Ayurvet Limited., Baddi, Solan, H.P.	0.65	2021	Satheesha, S.P.
ANN	Effect of growth promoter on growth performance, intestinal morphology hemato-biochemical profile and digestive enzymes in commercial broilers	National Innovation Foundation	8.15	2021	Jaishankar, N.
ANN	Assessment of productivity, <i>in vitro</i> digestibility and gas production characteristics of Moringa and Sesbenia tree fodder	SCSP/TSP Grants	1.00	2021	Jaishankar, N.
LFC	Upliftment of socioeconomic status and livelihood of dairy farmers of Hassan district by adopting advanced management technique	Ansh Vetlife, Vadodara	5.10	2021	Chethan, K.P.

LFC	Establishment of Fodder Cafeteria and Assessment of Nutritional Quality of Various fodder crops	SCSP/TSP	1.00	2019	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.
<b>VETERINARY COLLEGE, GADAG (VCG)</b>					
VPP	Pathomorphological studies on mortalities in non human primates with special reference to Kyasanur forest disease in affected areas of Shivamogga,	KVAFSU, Bidar	2.5	2019	Kavitha Rani, B.
VPP	Seroprevalence of KFDV in domestic animals in KFD endemic areas in Shivamogga	KVAFSU, Bidar	0.20	2022	Kavitha Rani, B.
VPP	In early kid and lamb mortality: A study on pathological changes of the gut	KVAFSU, Bidar	0.30	2022	Shashidhar Ballari
<b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b>					
DMC	Detection of Bacteriophages of Lactic Cultures used in Dairy Industry	DSM	26.16	2022	Ramachandra, B.
DC	Study on separation and anti-oxidant activity of phospholipids from ghee.	KVAFSU, Bidar	0.20	2021	-
<b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>					
Aqua	Modernization of Research and Instructional Fish Farm for New Aquaculture Technologies.	RKVY, Govt. of Karnataka	797.00	2020	Ganapathi Naik, M.
AAHM	Phase 2 of “National Surveillance Programme for Aquatic Animal Diseases (NSPAAD)”: Surveillance in Freshwater and Brackish water sectors in the state of Karnataka	PMMSY	9.35	2022	S.K. Girisha
AEM	Monitoring of pollution impact by discharge of treated effluents from BASF, Mangalore	BASF	7.65	2022	Lakshmipathi, M.T.
AEM	Coastal water quality monitoring near M/s. UPCL seawater intake and effluent discharge point off Padubidri	UPCL	12.00	2023	Lakshmipathi, M.T.
AEM	Analysis of sea water monitoring at Marine outfall discharge point in the Arabian sea, Mangalore	MSEZ	7.52	2023	Lakshmipathi. M.T

AEM	Bio-monitoring studies of treated effluent and soil analysis SOLARA Active Pharma Sciences Limited, Baikampady, Mangalore	SOLARA	0.50	2022	T.S. Annappaswamy
AEM	Treated effluent analysis and monitoring of seawater quality off Chitrapur near the marine outfall of effluent from MRPL-ONGC Mangalore	MRPL-ONGC	12.00	2022	Lakshmipathi, M.T.
AEM	Up gradation of Clean Laboratory for Water and Soil Analysis	VGST	40.00	2019	Lakshmipathi, M.T.
AEM	Ecological Monitoring off Arabian Sea near Thannirbhavi, Mangaluru	MCF	6.53	2022	A.T. Ramachandra Naik
FRM	Skill Development Programme in 'Fisheries' Under Area Based Development (ABD) Mission Of Mangaluru Smart City Limited (MSCL)	Mangaluru Smart City Limited (MSCL), Mangaluru	475.00	2019	Director: Dean (Fisheries) P.I.: Ramachandra Naik and Kumar Naik A S

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

Dept of DI	AICRP on Animal Disease Monitoring and Surveillance (ADMAS)	ICAR-NIVEDI	8.37	1988	K Sripad
Dept of DI	Establishment of veterinary forensic laboratory	RKVY	560.00	2019	K Sripad
Dept of DI	Establishment of referral diagnostic laboratory at Devanagari.	Govt. of Karnataka	300.00	2017	K Sripad
Dept of DI	Establishment of Animal disease diagnostic laboratory & Information Centres (ADDLIC) at Dharwad, Gadag, Koppal, Raichur and Vijayapura	Govt. of Karnataka	300.00	2019	K Sripad
Dept of DI	Development of recombinant protein based diagnostic kits(lateral flow assay) for field level detection of PPR, Swine fever, Bluetongue and subclinical mastitis.	RKVY	250.00	2019	K Sripad
Dept of BP	Development of adjuvanted vaccine against Kyasanur Forest Disease	DST VGST GoK	30.00	2022	B.M. Chandranaik
BPD	Establishment of Kyasanur Forest Disease vaccine Laboratory	Govt. of Karnataka	550	2020	B.M. Chandranaik



BPD	Development and evaluation of pentavalent blue tongue vaccine for sheep and standardization of rapid diagnostics for early detection of blue tongue virus	KSWDC, GOK	30.50	2015	Kavitha, G.
BPD	Characterization of bluetongue virus strains/serotypes and assessment of their suitability as vaccine candidates to the current field scenario	NLM, GOI	28.40	2022	Kavitha, G.
FMD	National Animal disease control programme on FMD	ICAR-NIFMD	4.25	1977	Raveendra Hegde
Quality Management System	“Upgradation Of Vaccine Quality Control Laboratory and Building Up Of Animal Challenge Facility, As Per GMP For Supply Of High Quality Vaccines To Livestock And Poultry Farming Community- Phase I”	RKVY	500.00	2019	Chairman: Director P.I.: Dr. Asha Mayanna
Quality Management System	Upgradation Of Vaccine Quality Control Laboratory and Building Up Of Animal Challenge Facility, As Per GMP For Supply Of High Quality Vaccines To Livestock And Poultry Farming Community- Phase II	RKVY	400.00	2022	Chairman: Director P.I.: Asha Mayanna
GDS, SRDDL	Screening for genetic disorders in breeding bulls in Karnataka state	KLDA, GOK	78.00	2015	Shivaraj M.
DBM, SRDDL,	DBT network programme on anthrax diagnosis and Control	DBT	66.53	2021	Shivaraj M.
DBM, SRDDL,	One Health Approach for Molecular Epidemiology and Risk Assessment for <i>Bacillus anthracis</i> in India (OHAI)	Penn state University	48.41	2022	Shivaraj, M.
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b>					
LRIC (Deoni)	Development of e-Extension Modules for Capacity Building in Livestock Farming	NASF-ICAR, New Delhi	93.07	2022	Prakashkumar Rathod
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA</b>					
LRIC (Sheep)	Mega Sheep Seed Project – Mandya Sheep	ICAR	27.13	2009	H.K. Siddalingamurthy
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER (B), DORNAHALLI</b>					
LRIC (Buffalo)	Establishment of Model Buffalo farm in Yadgir District	NITI AYOJ, GoI	24.00	2021	Shesha Rao

<b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>					
FRIC, Hebbal	Assessment of Production Potential of RAS with different fish species and its economics	RKVY, GoK	92.00	2022	K.B. Rajanna
FRIC, Hebbal	Evaluation of Aquaposhak for its use in aquaculture systems	TH&C Pvt. Ltd., Bengaluru	2.60	2022	K.B. Rajanna
FRIC, Hebbal	A non-intrusive method in BIOFLOC technology for determining fish growth, population and monitoring water quality for improving productivity in aquaculture using information and communication technologies - In Collaboration M.S.Ramaiah Institute of Technology, MSR Nagar, MSRIT Post, Bengaluru	VGST, GoK	30.00	2022	C.G. Ragvendra
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA</b>					
FRIC, H'ghatta	Evaluation of heterotrophic food chain in different agro climatic regions and strategies for enhancement of fish production	DST-SSTP, New Delhi	53.27	2019	Manjappa, N.
<b>ANIMAL HUSBANDRY POLYTECHNIC, KORAVANGALA -HASSAN</b>					
AHP, Hassan	Conservation of Hassan Sheep Breed	GoK	325.00	2018	Guruprasad, R
AHP, Hassan	Establishment of Sheep & Goat Semen Bank	GoK	300.00	2018	Sudha, G

## ABSTRACT OF ONGOING RESEARCH PROJECTS

#	<i>College /Institute</i>	<i>Research Projects</i>	
		<i>Total Nos.</i>	<i>Amount (Rs. Lakhs)</i>
1	Veterinary College, Bengaluru	10	171.77
2	Veterinary College, Bidar	2	4.65
3	Veterinary College, Shivamogga	12	277.77
4	Veterinary College, Hassan	9	28.63
5	Veterinary College, Gadag	3	3.00
6	Dairy Science College, Bengaluru	2	26.36
7	College of Fisheries, Mangaluru	10	1367.55
8	IAH&VB, Bengaluru	15	3154.46
9	LRIC, Hallikhed-Bidar	1	93.07
10	LRIC, Nagamangala-Mandya	1	27.13
11	LRIC, Dornahalli-Yadgir	1	24.00
12	FRIC, Hebbal-Bengaluru	3	124.60
13	FRIC, Hesaraghatta-Bengaluru	1	53.27
14	AHP, Koravangala-Hassan	2	625.00
<b>Total</b>		<b>72</b>	<b>5981.26</b>

## **b) Research Highlights**

### **VETERINARY COLLEGE, BENGALURU**

#### **Title: Genetic polymorphism of MHC class II DRB exon 2 gene in goats of Karnataka**

- Blood samples were collected from three different goat breeds of Karnataka.
- Genomic DNA was isolated by high salt method, quality and quantity of isolated DNA was assessed.
- PCR was carried out by using the reported primers and quality of each sample was performed by running on 1.5 per cent agarose gel electrophoresis.
- The PCR samples were sent for sequencing.
- Sequence analysis is yet to be conducted.

#### **Title: Identifying Nucleotide variabilities in *BMP15* gene of sheep (*Ovis aries*)**

- Blood samples were collected from 100 NARI suvarna and 100 Bannur sheep. DNA was isolated from venous blood of 200 sheeps comprising of 100 NARI suvarna and 100 Bannur sheep, following Insta DNATM, MBT109-100NO kit method. The OD 260/280 ratio of the different DNA samples in the present study was observed to be in range of 1.7 to 1.9 indicating high purity of the extracted DNA and was found to be good for the present study. The quality of extracted genomic DNA was determined by horizontal submarine agarose gel electrophoresis on 0.8 per cent agarose. Amplification of Exon -2, 575 base pair of BMP15 gene obtained by self designed primer in both breeds. F 5' TCAGGAAGAGGCTCCTCAAA 3' R 5' GAAGGCTGAGGGACATTCTG 3'

#### **Title: Study on the efficacy of dietary supplementation of minerals, Vitamins and Antioxidant in combination, on the semen quality in infertile male dogs (NUTRICH®)**

- 60% of the study is completed
- Seminal attributes, mineral profile, Testosterone values and Total antioxidant capacity (GPx, Catalase, SODs) of six infertile male dogs (study animals) have been evaluated.
- Infertile male dogs as and when presented to the OPD, Department of VGO will be considered for further study.

#### **Title: Programme for strengthening intersectoral coordination for prevention and control of zoonotic diseases Renamed as (National One Health Programme for Prevention and Control of Zoonotic Diseases (NOHPPCZ))**

- Periodic monthly, quarterly and annual reports on processing of animal brain samples for diagnosis of rabies being furnished.
- Samples (especially brain and serum) received are documented, computer catalogued and are stored in the repository.
- Following tests are being performed and will be carried out based on the type of samples received.
  - Lateral Flow assay (LFA) test, a preliminary test is performed for the diagnosis of rabies in brain sample of animals. This test is employed for both brain and saliva samples for post mortem and ante mortem diagnosis of rabies respectively.
  - Direct fluorescent antibody test (DFA), a WHO-WOAH approved test for diagnosis of rabies in animal brain samples. All the brain samples submitted to this laboratory are subjected for DFA.

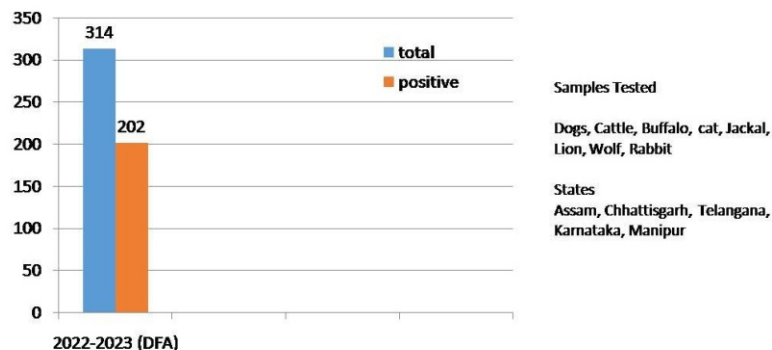
- Rapid Fluorescent Focus Inhibition Test (RFFIT) for monitoring of anti-rabies antibodies in vaccinated dogs & cats. The test is carried out not only for international movement of pets but also for estimating the vaccinal antibodies in rabies control programs through mass dog immunization.
- Polymerase Chain Reaction (PCR), for the detection and molecular characterization of rabies virus in brain sample of animals.
- Hemi nested PCR for detection of members of the Lyssa virus
- LN 34 PCR for detection of Pan Lyssa viruses.

**Direct fluorescent antibody test (DFA)**, a WHO-WOAH approved test for diagnosis of rabies in animal brain samples. All the brain samples submitted to this laboratory are subjected for DFA. **202/314 samples tested 64% positivity for rabies.**

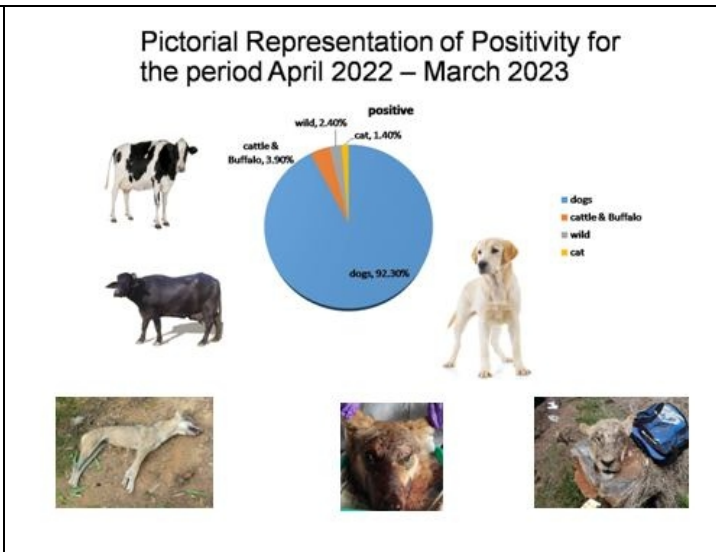


**Lateral Flow assay (LFA):** a preliminary test can be done at carcass side (19 /56 samples tested 33% positivity for rabies)

### Samples tested April 2022 – March 2023



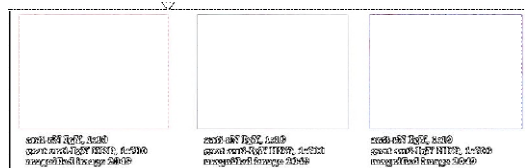




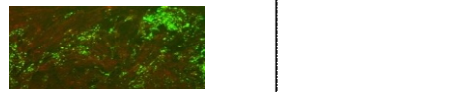
**Research**

1. Cloning and expression of Nucleoprotein gene of rabies virus & its application in diagnosis of rabies

Ig Y based



2. Development of **FAVN and ELISA** for estimation of antirabies antibodies in dogs



3. Development & evaluation of **lateral flow assay** for diagnosis of rabies in animals



Capacity Building programmes

- Virtual Workshop on “Proposed South Asia Rabies Laboratory Network” was organized on 14<sup>th</sup> July, 2022 at KVAFSU-CVA Rabies Diagnostic Laboratory, WOAHP Reference Laboratory for Rabies, Department of Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru.
- Four Training programmes on “Collection of Brain sample & Laboratory diagnosis of rabies in animals” were conducted for Veterinary Officers of State AH & VS at Veterinary College, Hebbal, Bengaluru on 23.08.2022, Veterinary College, Hassan on 02.09.2022, Veterinary College, Bidar on 13.09.2022 and Veterinary College, Gadag on 21.09.2022. Jointly organized by KVC, AH&VS and KVAFSU-CVA Rabies Diagnostic Laboratory, WOAHP Reference Laboratory for Rabies, Department of Veterinary Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru.
- “World Rabies Day – 2022 with a theme “One Health and Zero deaths” on 28<sup>th</sup> September, 2022 was jointly organized by KVC, Department of AH&VS, Govt of Karnataka and KVAFSU-CVA Rabies Diagnostic Laboratory, WOAHP Reference Laboratory for Rabies, Department of Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru at Karnataka Veterinary Council, Hebbal, Bengaluru.

- WOAH Regional Training of Trainers Workshop on 'Mass Dog Vaccination' on 28<sup>th</sup> November to 2<sup>nd</sup> December 2022 at Veterinary College, Bengaluru, was jointly organized by WOAH, Mission Rabies and KVAFSU-CVA Rabies Diagnostic Laboratory, WOAH Reference Laboratory for Rabies, Department of Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru.
- WOAH Sub-Regional Training Workshop 'Animal Rabies Diagnosis for South Asia' conducted during 18<sup>th</sup> -21<sup>st</sup> January, 2023, organized by KVAFSU-CVA RDL jointly with WOAH Regional Representation for Asia and the Pacific and CVA at Veterinary College, Bengaluru.
- National Training Programme on “Collection of Brain sample and Laboratory diagnosis of rabies in animals” during 1<sup>st</sup>-3<sup>rd</sup> March, 2023 was organized by KVAFSU-CVA RDL & NCDC under NOHPPCZ at KVAFSU-CVA Rabies Diagnostic Laboratory, WOAH Reference Laboratory for Rabies, Department of Microbiology, Veterinary College, KVAFSU, Hebbal, Bengaluru
- Reason for Continuation: NOHPPCZ is an ongoing programme and is being renewed annually.

**Title: Development of quantitative ELISA for Sero monitoring Post-anti rabies vaccinal antibody responses in dogs: Phase-II**

- The earlier project was continued in Phase I to undertake validation of ELISA and it will be initiated once the funds are released.

**Title: Development of point of care diagnostics for the diagnosis of theileriosis and babesiosis in cattle**

- Diagnosis of Theileria annulata using unconjugated DNA of Theileria annulata is being optimized.

**Title: Canine mammary cancer stem-like cells derived exosomal miRNAs: understanding the biology and developing diagnostics**

- Optimization of mammospheres growth from patient derived tumor sample

**VETERINARY COLLEGE, SHIVAMOGGA**

**Title: Effect of natural tenderizers on mutton chunks in the preparation of mutton curry**

- We come to know that ginger paste @ 10% markedly improved the tenderness of mutton chunks.
- Among these cooking methods, pressure cooking had better tenderness followed by micro wave cooking in mutton chunks compared to pan cooking.
- However, the flavour of mutton chunks in pan cooking method was more acceptable compared with other two methods

**Title: Establishment of *Gau*-Products Research and Evaluation Laboratory**

- Approx. 4.85 lakh equipments & 2.73 lakhs chemicals & Glass wares were purchased
- Vermicompost and Panchagavya products were standardized and SOP for the same was made

## Title: Malnad Gidda Research and Information Centre

- Activities of MGR&IC Programs conducted in this year 2022-23
- One training program was organized under MGR&IC on 27<sup>th</sup> Sept 2022. 27 participants have attended the training on the topic Malnad gidda rearing and importance of conservation and green fodder production and preservation. Dr Prakash, N. Dean, Veterinary College, Shimoga appraised about the activities of Malnad Gidda Research and Information centre two folders on different Grass fodders and tree fodders were released during the occasion. A demonstration on preparation of silage was demonstrated by Dr. Manju, Asst. professor Animal nutrition, Dr. Venkatesh, M.M spoke of the fodder varieties and their cultivation practices. All the participants were given hybrid napier stem cuttings (3000 numbers) for propagation and use. Total revenue of 2022-23- **Rs 19,831** (Milk Rs 15815, Milk products Rs 361 & Manure Rs 3655)

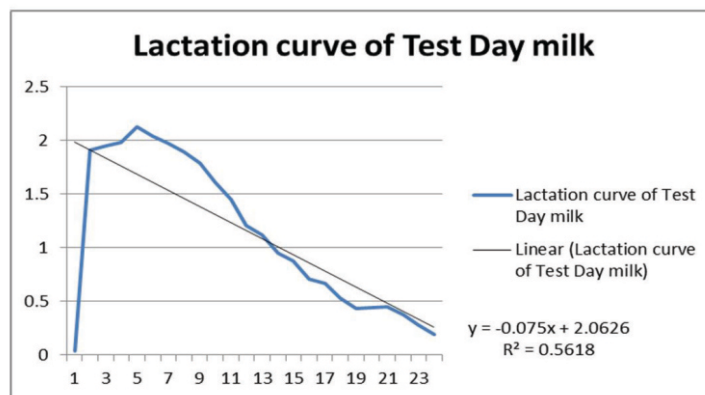
Performance of Malnad Gidda Animals	Number of Records	Mean±SE
Total lactation Milk Yield (Kgs)	49	272.3±12.14
Lactation Length (Days)	45	180.6±7.763
Peak yield (kgs)	51	2.451±0.0927
Days to reach peak (Days)	51	25.9±3.39
Average Milk Yield per day (Days)	51	1.627±0.061
Birth weight overall (Kgs)	63	7.541±0.1678
Birth Weight Male Calves (Kgs)	27	7.898±0.2199
Birth Weight Female Calves (Kgs)	36	7.352±0.2085
Dry period (Days)	32	170.1±8.197
Inter calving Interval (Days)	27	375.5±10.01
Age at First calving	21	1138±25.71

The data was analysed for different seasons and the same has been published as research article.

	Rainy	Summer	Winter
Total lactation Milk Yield	280.5±34.12	256.6±18.73	257.4±21.75
Lactation Length	167.4±19.23	168.6±11.67	163.7±15.97
Peak yield	2.844±0.2383	2.274±0.1428	2.503±0.1111

Days to reach peak	11.11±3.462	34.36±6.012	21.29±3.156
Average Milk Yield per day	1.819±0.2056	1.54±0.07998	1.654±0.08735
Birth weight overall	7.535±0.3037	7.802±0.2519	7.332±0.3463

Lactation curve was constructed based on test day milk record since inception the farm and linear regression equation was developed to know the trend in milk production of Malnad Gidda animals in its lactation period.



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

- The project is ongoing with the survey of pet and domestic animal owners. So far around 1000 people have been surveyed to assess their level of attachment with their animals and as well the mental stress levels. Pet owners and domestic animal owners visiting for consultation to the Veterinary Hospital, VCC, Veterinary Shimoga, Govt and Private Veterinary hospitals in and around Shimoga, Rural Veterinary Hospitals of Shimoga Taluk are surveyed. The survey area also covered Davangere, Chikamagalore districts, Bangalore and Mysore city. 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. 11 Focus group discussions were organized with a total participation of 216 people who have expressed about their pet attachment for qualitative assessment. The first year annual report was submitted to ICMR during the month of September 2022. All the data collected will be statistically analysed.

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

- Under the project tree fodder seedling production has been initiated in the MGR&IC premises. So far around 200 seedlings of subabul fodder variety has been produced. Six training programmes were organized along with demonstration on fodder seedling production and propagation of fodder grass varieties from seeds were demonstrated to the participants. Overall 117 farmers were benefitted by these programmes and they were also given sample fodder seeds and root slips to cultivate in their farm premises. One training manual and four folders have been released under the project. (Fodder grasses, leguminous fodder varieties, tree fodder and about the grassland management project have been released). Training facility has been created – Smart board, furniture's for the farmers training program are procured through GEM. Display materials on acrylic boards, stand up displays on various fodder information have been designed and installed in the Dept. of AGB to educate the trainees and other visitors who visit the department.

- E tender for the infrastructure to be created for Rotational grazing system is already done from the University estate branch. Work order to be given at the earliest to create Rotational fencing, borewell, electricity supply to the farm and lifting of water from the ponds for irrigating the facility.

**Title: Comparative evaluation of different binders to ameliorate the toxicological effects of multiple mycotoxins in broiler chicken**

- Toxin production, Biological trial and few lab analyses completed, other Laboratory analysis of trial samples pending

**Title: Effect of different binders on Performance and Health of broiler chicken fed Aflatoxin contaminated diet**

- Toxin production, Biological trial completed, Laboratory analysis of trial samples pending

**Title: Determination of the beneficial effects of yeast cell wall extracts in alleviating the toxic effects of *Fusarium* toxins in piglets**

- Toxin production in progress

**Title: Effect of Probiotics as an alternate to antibiotics on production performance, Immunocompetence and Gut health in broiler chicken**

- Yet to start the trial

**VETERINARY COLLEGE, HASSAN**

**Title: Histomorphometric characteristics of the corneal layer of hoof capsules of Amruthmahal Cattle (*Bos indicus*):**

- Six pairs of hoof of Amruthmahal cattle were collected and preserved for further processing.

**Title: Assessment of productivity, *in vitro* digestibility and gas production characteristics of Moringa and Sesbenia tree fodder:**

- The herbal growth promoter supplemented groups showed better performance in commercial broiler chicks when compared to control group and no adverse effect on blood biochemical parameter.
- Histopathology of duodenum showed significant difference between treatment groups as better Villi: Crypt ratio reported was noticed in T-5 and T-2
- As per the results observed overall, T-2 group performed better followed by T-5 and T-1 when compared to T-3 and T-4 groups. This is indicative of positive effect of herbal growth promoter.
- Further, it is recommended to take T-2 supplemented herbal growth promoter (AHP/PL/FE/2-KA) to further trial for dosage optimization and appreciating optimum production performance of broiler chicks in requirement with industry.

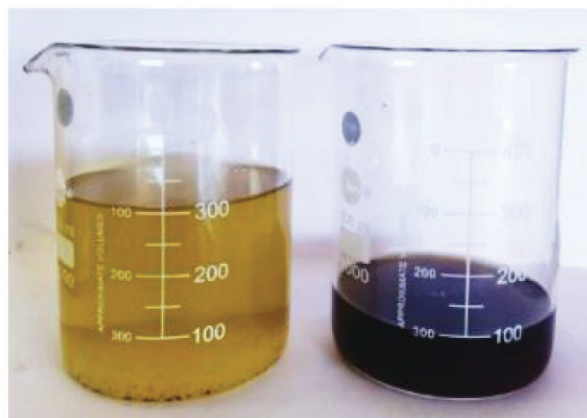


## Title: Evaluation of indigenous medications for the control of ticks and mastitis in dairy cattle

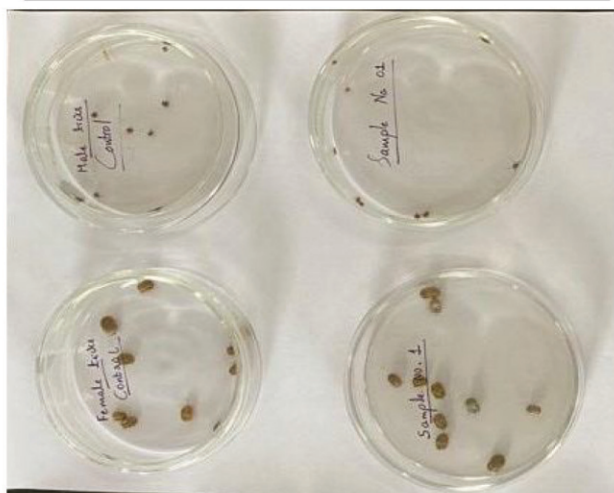
- The polyherbal medication resulted in the mortality of 87.06% of male and 10.65% female ticks by 72 hours of application. But 63 percent mortality of fully engorged female ticks was observed by 13.6 days post-treatment
- The pre-oviposition period was not much affected.
- Medication treated ticks showed Oviposition Period of 12.2 days compared to the 13.9 days in control ticks.
- Medication affected fecundity in ticks as evidenced by Oviposition Reduction (OR) of 51.6%.
- Medication affected hatchability of tick eggs. Hatchability Reduction (HR) rate was 82.7%.
- The efficacy of the preparation was 83.25% on the naturally infested animals.
- The recurrence of ticks was also delayed for a month after the initial application of the medication for mostly *Rhipicephalus annulatus* and *Rhipicephalus microplus* ticks.



**Collection of neem and vitex nigundo leaves**



**Preparation of leaf extract as per the NIF's procedure**



**AIT for Female and Male**



**Application on tick infested cows**

**Title: Detection of Bacteriophages of Lactic Cultures used in Dairy Industry**

**1. Appointment of Senior Research Associate on consolidated pay of Rs. 35000/-**

Ms. Chaitra Uttappa has been appointed as SRA and reported for duty from 24<sup>th</sup> Dec. 2021

**2. Setting up of Phage Lab Cabin making**

Procurement of equipments from DSM – Refrigerator, Biosafety Cabin, Deep freezer (-80°C) and placing them at right places with stabilizer arrangement

**3. SOP for biosafety cabinet and required registers, files with names were arranged**

Standard operating Procedure for biosafety cabinet is being made Day book, stock books, attendance register, sample analysis data register, Dispatch register, purchase file, SOPs file, Attendance abstract file, personal file and project report file are being separately kept required entries made.

**4. Purchase of consumables required for lab work**

Glass wares, chemicals and miscellaneous items required are purchase

**5. Visit to dairies by SRA**

Visit for Kanapkaura cheese plant, Mandya, Chamrajnagar, Mysore KMF; private dairies Godrej Cream Line Dairy, Mandya, Namdhari Dairy, Bidadi - explained about start of Bacteriophage Lab and went through the curd, cheese production.

**6. Optimizing the procedure for bacteriophage detection in lactic culture**

The procedure of plaque assay using soft agar is being standardize

**Title: Study on separation and anti-oxidant activity of phospholipids from ghee**

- Anti-oxidant activity of phospholipids was studied by incorporation of ghee residue into the ghee samples at different levels and shelflife study conducted. The results revealed that the shelf life of ghee samples increased as the level of ghee residues added increased. It was also observed that the storage stability of ghee samples added with ghee residues level of 1 % was found to be noted longer shelf life as compared to other two sample of ghee added at 0.25 and 0.50 % . So therefore it can be concluded that phospholipids present in the ghee residues are effective free radical scavengers and protect the ghee from spoilage.

COLLEGE OF FISHERIES, MANGALURU

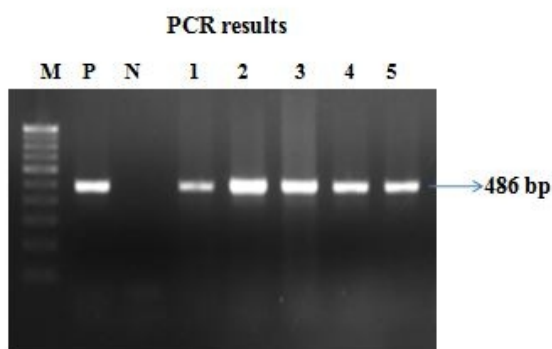
**Title: Modernization of Research and Instructional Fish Farm for New Aquaculture Technologies**

- NITK Surathkal is implementing the project works in Research and Instructional Fish Farm, College of Fisheries, Mangalore as per MOU. The Amphitheatre work is completed. The sewage drainage side wall is completed. Renovation of 22 fish tanks is completed. The work of a drainage channel is completed.

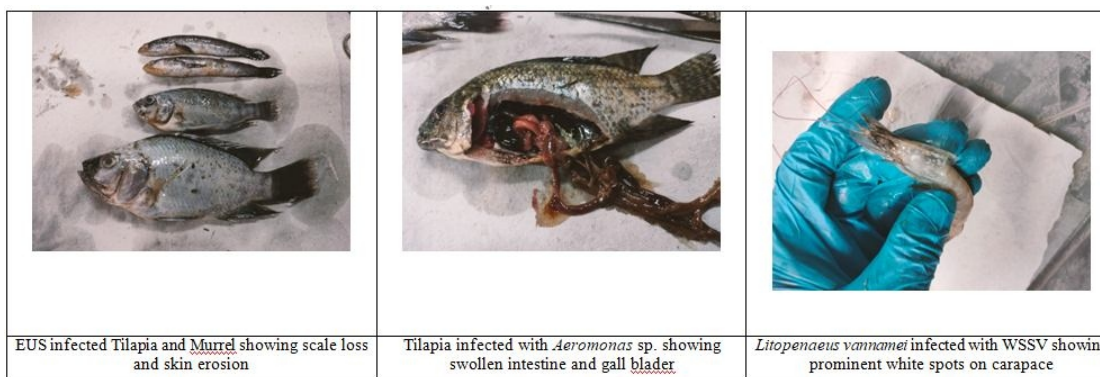
**Title: Phase 2 of “National Surveillance Programme for Aquatic Animal Diseases (NSPAAD)”: Surveillance in Freshwater and Brackish water sectors in the state of Karnataka**

- Fish, shrimp and pond water & sediment samples were collected regularly and transported to the laboratory.
- The shrimp samples were analysed for the presence of DNA viruses such as White spot syndrome virus (WSSV), Monodon baculovirus (MBV), Hepatopancreatic parvovirus (HPV), infectious hypodermal and hematopoietic necrosis virus (IHHNV) and RNA viruses such as Taura syndrome virus (TSV), Yellow head virus (YHV), Infectious myonecrosis virus (IMNV) and other emerging pathogens causing Acute hepatopancreatic necrosis disease (AHPND) and Enterocytozoonhepatopenaei (EHP).

- Fish samples were analyzed for the presence of ISKNV, RSIV, TiLV, KHV, VNN, EUS, CEV, *Aeromonas* and Parasites
- The results were documented and reports were sent to the NBFGR Lucknow.
- Sample analysis results and technical suggestions are communicated to the farmers.
- A total of 28 fish samples, 57 shrimp samples, 9 water samples and 3 soil samples were analysed for above listed pathogens.
- Among 57 samples, 20, 6, 1 and 1 were positive for EHP, WSSV, HPV and co-infection with EHP and WSSV respectively.
- Among 28 samples of fish, 7, 8, 5, 2, 1 and 1 were positive for ISKNV, *Aeromonas*, *Dactylogyrus*, EUS, *Argulus* and Ich respectively



Lane: M- 100 bp DNA ladder; Lane: P- Positive control; Lane: N- Negative control; Lane 1-5: Shrimp samples positive for WSSV.



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

- 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: 36 genera
- Diatoms- *Biddulphia*, *Coscinodiscus*, *Chaetoceros*, *Ditylum*, *Nitzschia* (Dominant)
- Dinoflagellates – *Ceratium*, *Peridinium*, *Noctiluca* (Dominant)
- Blue green algae- *Tricodesmium* (Dominant)
- Zooplankton – 18 genera Copepods, Copepod Nauplius, *Oikopleura*, Tintinids, Echinoderm larvae and Cladocerans (Dominant)
- Benthos – 20 genera
- Molluscs – Bivalve spats, *Donax*, *Dentalium*, *Arca*, *Cerithedia* and *Meritrix* (Dominant)

- Polychaetes – *Neries*, *Nepthys*, *Polydora* (Dominant)
- Heavy metals- Ni, Cd, Fe, Pb and Major heavy metals are 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: 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: 28 genera
- Diatoms dominant, followed by dinoflagellates and blue green algae
- Zooplankton –26 genera
- *Copepods*, *Tintinids*, *Oikopleura*, and *Polychaetes* (dominant)
- Benthos – 20 genera Bivalve and Gastropoda (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: Analysis of sea water monitoring at Marine outfall discharge point**

- Monitored the coastal water quality in the vicinity of discharge point of MSEZL in the Arabian Sea assessing water, sediment, plankton and benthos.
- Water quality - within the ambient levels of coastal environment
- Phytoplankton: 18 genera
- Diatoms- *Chaetoceros*, *Biddulphia*, *Coscinodiscus*, *Pediastrum* (Dominant)
- Dinoflagellates – *Ceratium*, *Peridinium* (Dominant)
- Blue green algae- *Tricodesmium* (Dominant)
- Zooplankton – 14 genera - Copepods, Copepodites, Tintinids, *Oikopleura*, *Cladocerans* (Dominant)
- Benthos – 16 genera – Molluscs – Bivalve spats, *Meritrix*, *Donax*, *Dentalium* and *Umbonium* (Dominant) Polychaetes – *Neries*, *Nepthys*, *Polydora* (Dominant)
- Heavy metals- fish, phyto and zooplankton samples - Cd, Cr, Mn, Fe, Pb, Zn and Ni – within permissible limit.

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

- Bioassay experiments were conducted on monthly basis on treated effluent samples supplied by M/s Sequent Scientific Limited, Baikampady, Mangalore using common carp. (*Cyprinus carpio L.*) and monthly reports have been submitted to the sponsoring agency regularly.
- The bioassay studies - no mortality of fishes exposed to seawater collected from the vicinity of effluent fallout.



**Title: Treated effluent analysis and monitoring of seawater quality off Chitrapur near the marine outfall of effluent from MRPL-ONGC Mangalore**

- Water quality in the study area is well within the ambient levels of coastal environment.
- Phytoplankton-28 species
- *Biddulphia*, *Cosncinodiscuss chaetoceros* and *Nitzchia*
- BGA-*Trichodesmim sp*
- Zooplankton -24 species
- *Copepods copepod nauplius*, *Tintinids*, *Medusae*, *Chaetognaths*
- Benthos-20 species mollusks, Echiuroids, Echinodermata, miscellaneous-crabs,shrimps and fishes
- The bioassay studies-no mortality of fishes exposed to seawater collected from the vicinity of effluent fallout.

**Title: Up gradation of Clean Laboratory for Water and Soil Analysis**

- To upgrade the existing clean laboratory facility for the analysis of metals in water, sediment and biological tissues
- To extend the facility to UG, PG and teachers involving in teaching & research projects in the department and to all staff of the college.
- To create central facility services to analyze samples for metals from farmers, industries, environmentalist, administrator's, policy makers etc
- To encourage staff to get more extramural projects and to concentrate an impacts of metals in the coastal ecosystems along the coast of Karnataka.

**Title: Ecological Monitoring off Arabian Sea near Thannirbhavi, Mangaluru**

- Water quality in the study area is well within the ambient levels of coastal environment.
- Phytoplankton – 32 species
- *Biddulphia*- *Biddulphia regia*, *B. sinensis*, *Chaetoceros*- *C. lorenzianus*, *C. decipiens*, *Coscinodiscuss*- *C. oculus iridis*, *C. lineatus*, *Nitzschia*- *N. closterium*, *N. striata*. BGA-*Trichodesmium sp*.
- Zooplankton - 23 species
- Tintinids- *Tintinopsis sp. Rabdonella sp.* Medusae- *Obelia sp, Octocostatum sp.*, *Chaetognaths*- *Sagitta enflata, Lucifer lucifer*.
- Benthic diversity was observed 22 groups were dominated by molluscs followed by Echiuroids, Echinodermata, 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: Skill Development Programme in 'Fisheries' Under Area Based Development (ABD) Mission of Mangaluru Smart City Limited (MSCL)**

- 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. Building constructed and inaugurated.



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

### **Title: Development and evaluation of pentavalent blue tongue vaccine for sheep and standardization of rapid diagnostics for early detection of blue tongue virus**

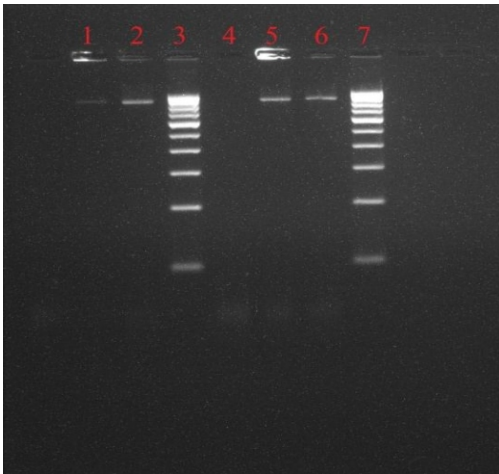
- The clinical samples such as blood and tissues (heart, lung, liver, spleen and kidney) were processed for identification of bluetongue virus by RT-PCR.
- From the BTV confirmed samples, the BTV was isolated in cell cultures (insect cells and BHK 21 cells).
- Primers were designed for identification of BTV and validation was done for their specificity.
- Real time RT-PCR was standardized for rapid diagnosis of BT.
- Using the BTV serotypes i.e., BTV1, BTV2, BTV10, BTV16 and BTV23, an inactivated pentavalent bluetongue vaccine was standardized. The vaccination trials were conducted in the field and seromonitoring was done.
- Hyerimmunesera was raised against all the five serotypes and their cross-protection was studied.
- During 2022-23, a total of 363 clinical samples (203 blood and 160 tissue samples) were processed for the identification of BTV. Among them, 137 blood samples and 89 samples (a total of 226 samples) were found to be positive for BTV.

### **Title: Screening for genetic disorders in breeding bulls in Karnataka state**

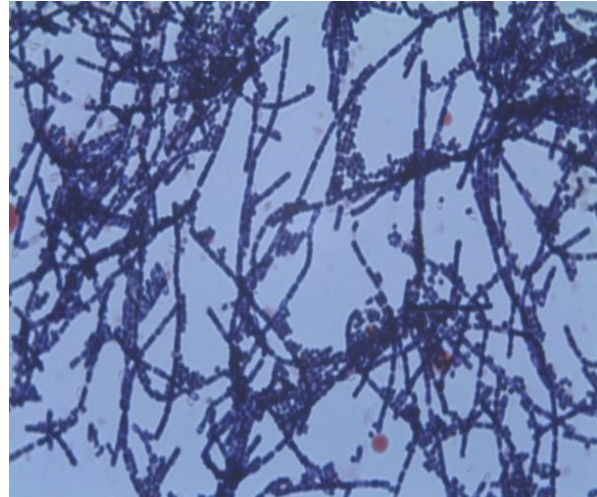
- None of the animals were found to be carriers for genetic disorders and also free of chromosomal abnormalities.
- 144 Homo (49%), 127 Hetero (43%) & 23 (8%) absent/wild type Fec B gene prevalence were found in sheep.

### **Title: DBT network programme on anthrax diagnosis and control**

- Isolation and screening of *Bacillus anthracis* from suspected animals was carried out- till now 16 investigation visits to Gauribidanur Tq of Chikkaballapur Dist. and Sira Tq of Tumkur Dist. Totally we have got Eight isolates (Sheep, Goat and Cattle)
- Four Isolates were sent for Whole genome sequencing.
- Collaborative work with different network centres is done as per the mandates of the project (Biweekly meetings – online).
- Procurement of instruments (Hot Air Oven- Taken). Other instruments sanctioned in the project are in the Tender Process.
- Serum samples were collected from pre and post vaccinated animals.
- ZBA (Zero Balance Account) with ICICI is opened, funds were transferred to the New account through CNA.



Lane 1 : Positive control,  
 Lane 2: Sample 1,  
 Lane 3: 100bp Ladder ;  
 Lane 4 : Negative control,  
 Lane 5: Positive Control,  
 Lane 6: Sample 2 ;  
 Lane 7: 100bp Ladder



*Bacillus anthracis* organisms

**Title: One health approach for molecular epidemiology and risk assessment for *Bacillus anthracis* in India (OHAI)**

- Isolation and Identification of *Bacillus anthracis* Organisms from suspected animals.
- Lateral flow assay using Lateral flow Kits was carried out.
- Field investigations were carried out for Suspected Anthrax Outbreaks.
- 4. Serum samples were collected from pre and post vaccinated sheep and Goats in the selected endemic areas of Gauribidanur Tq of Chikkaballapur District and Bellary/Koppal Tq/ District.
- Attended weekly online meetings towards the planning and objective achievement with other network partners.
- Compiled the laboratory confirmed Anthrax Data of 2010-2021 and the DATA is under analysis along with NIVEDI.
- Two field level trainings were given to Farmers at Gauribidanur Tq.

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

**Title: Development of e-Extension Modules for Capacity Building in Livestock Farming**

- Recruitment of Senior Research Fellow (SRF) completed.
- Preparation of interview schedule / questionnaire for need assessment about development of e-modules – Data collection in progress.
- Meetings/Workshops for primary and secondary data collection.
- Identification of multi-stakeholders (farmers, veterinary officers, NGO personnel etc.) for need assessment.
- Semiskilled/Unskilled labour hiring completed through GeM.
- Purchase of laptop and desktop in progress (through GeM).
- Short listing and identifying IT- firms for design and development of websites, Mobile App
- Project progress is rated as good by ICAR-NASF Project experts

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

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

- 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 2022-23 the amount of Rs.27.13 lakhs has been allocated from the Indian Council of Agricultural Research. This year 50 elite breeding rams have been distributed to the 50 beneficiary farmers in the field to cover their 2249 breedable ewes. Since from the inception of the project a total of 574 elite breeding rams that were born and raised at the farm were distributed to the identified 587 farmers in the home tract area to cover their 22,815 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.

## FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU

### **Title: Assessment of Production Potential of RAS with different fish species and its economics.**

- University allotted AB.AC No: 4551 and budget copy letter from Comptroller office on 29.06.2022.
- Nomination of project tem RKVY project as a **Project Coordinator** letter from Director of Research on 19.10.2022
- I wrote letter to Executive Engineer for calling tender for establishment of RAS on 27.10.2022.
- As per the instruction given by Joint Director of Agriculture (RKVY) and Director of Fisheries Office, GoK, the released amount has been transferred to the State Nodal Agency account (SNA) on 14/11/2022 and now funding (RKVY cell) advised us to utilize the budget through PFMS online portal with set of regulations.
- The funding agency requests us to utilize the budget within the March 2022-23 (By email on 06.02.2023) through PFMS portal.
- I wrote a request letter to release the budget for the year 2023-24, due to shortage of time to implement the project. (07.02.2023)

### **Title: Evaluation of Aquaposhak for its use in aquaculture systems**

- To evaluate the aquaposhak application into intensive composite fish culture system on water quality, pond productivity and production
- To assess the effect of aquaposhak application into fish and shrimp Biofloc ponds/production systems (indoor/outdoor) on water quality, pond productivity, and production
- Funding Agency released the budget for the year 2022-23 for the end of March,2023

**Title: A non-intrusive method in BIOFLOC technology for determining fish growth, population and monitoring water quality for improving productivity in aquaculture using information and communication technologies**

- To use the technology to improve the productivity in a limited resources of water land
- Building a prototype monitoring device (hardware & software) which helps fish farming community to supervise fish growth and population effectively
- Enhancing of fish production & productivity through expansion, intensification, diversification and productive utilization of land & monitoring water quality by the use of technology
- To meet the resource quality challenges as quoted in blue revolution
- Improve livelihood & employment generation
- Reducing pressure and dependency on capture fisheries

**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 conducted in southern dry agro-climatic region of Karnataka viz., Kanakapura, Bidadi and Ramanagara districts were selected to conduct the experimental trails.
- Seasonal ponds were identified and selected for conducting demonstrations.
- 7 farm ponds were selected for the demonstration
- Two major substrates (Bamboo pole and sugarcane bagasse) were selected and used for experimental purpose.
- Carnatic carp, fringed-lipped carp and fresh water prawn were stocked in the farm ponds
- Growth of fish and prawn were recorded in every month
- Physico-chemical characteristics of water was carried out in sampling
- Qualitative and quantitative analysis of plankton and periphyton was recorded in every sampling

**3. Research Collaborations / MoUs:**

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

#	Institutions involved in MOU	Date of MOU	Details Regarding MOU	Remarks
- 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	Virbac Animal Health India private limited, Mumbai	22.04.2022	Collaborative Research & developmental activities Veterinary College, Bangalore	-
2	Govt. Virus Diagnostic Laboratory, Shivamogga (GVDL)	25.07.2022	Collaborative Research & developmental activities at Veterinary College, Shivamogga	-
3	Mother Dairy Yelahanka, Bangalore	25.07.2022	Collaborative Research & developmental activities of KVAFSU, Bidar	-
4	AIMIL Pharmaceuticals (India), New Delhi	25.07.2022	Collaborative Research & developmental activities of KVAFSU, Bidar	-
5	P V Narsimha Rao Telangana Veterinary University, Rajendranagar, Hyderabad	25.07.2022	Collaborative Research & developmental activities of KVAFSU, Bidar	-
6	National Institute Veterinary Epidemiology & disease Informatics Yelahanka, Bangalore	20.02.2023	Collaborative Research & developmental activities of KVAFSU, Bidar	-

4. **Patents:** - Nil -

5. **Technology Developed:**

**Dept. of Veterinary Anatomy**

- Specimen Dry mount technique for formalin free specimen preservation
- Cryosecting for routine histology for UG and PG teaching

**Dept. of Veterinary Microbiology**

- In-house direct Immuno histochemistry test developed for diagnosis of Rabies in animals.

**Dept. of Veterinary Surgery and Radiology**

- The supercutaneous plating technique for the repair of metatarsal fractures in bovines showed effective immobilization of the fracture fragments, easy to apply, minimally invasive, adaptable and feasible to be used in the field conditions developed by Dr.B.N.Nagaraja



## 6. (a) Awards/Recognitions

#	Name of the Scientist	Award	Year	Agency
<b>VETERINARY COLLEGE, BENGALURU</b>				
1	Raghavendra, S. V., Naveen Kumar, S., Sejian, V., Basavraj Inamdar, Wilfred Ruban, S., Vivek M. Patil, Devaraj, C. and Bhatta, R	Second Best Oral presentation	2023	SOC DAB 2023
2	Dr. Prabhu, T. M.	Fellow Award, National Academy of Veterinary Sciences (NAVS), India	2022	National Academy of Veterinary Sciences (NAVS), India
3	Dr. Prabhu, T. M.	Best Teacher Award	2022	Animal Nutrition Society of India (ANSI)
4	Dr. Prabhu, T. M.	Member, Editorial Board, Indian Journal of Animal Nutrition	2022-24	Animal Nutrition Society of India
5	Dr. Prabhu, T. M.	CEC Member	2022-24	Animal Nutrition Association, India
6	Dr. Suma, N.	CEC Member	2022-23	Animal Nutrition Society of India
7	Dr. K. P. Chethan Major Advisor : Dr. T. M. Prabhu	Dr. S. K. Ranjan Best Ph.D. Thesis Award 2021 of ANSI.	2022	Animal Nutrition Society of India (ANSI)
8	T. M. Prabhu, B. N. Suresh, Jayanaik and H C Indresh	Best paper presentation Second place	2022	Nov. 4-6, 2022 IPSCON – 2022 Dept. of Poultry Science, College of Veterinary Science and Animal Husbandry, U. P., DUVASU, Mathura (U. P.) in collaboration with Indian Poultry Science Association, Izatnagar, (U. P.) India
9	Sachin, S. S., Sanjay, G. C., Prabhu, T. M., Umashankar, B. C., K. C. Singh, Siddalingamurthy, H. K., Sathisha, K. B., Madhusudhan, H. S. and Mahadevappa, D. Gouri	Best Paper Presentation Award	2022	November 16-18 <sup>th</sup> , 2022 19 <sup>th</sup> Biennial International Conference of Animal Nutrition Society of India Ludhiana, Punjab.

10	Punitha, G., T. M. Prabhu, N.K.S. Gowda, D. T. Pal, K. Giridhar, C. H. Girish, Debpriyo Kumar Dey, K. Bharathi, K. Nagaraj, K. P. Chethan and Raghavendra Bhatta	Best Paper Presentation Award	2022	November 16-18 <sup>th</sup> , 2022 19 <sup>th</sup> Biennial International Conference of Animal Nutrition Society of India Ludhiana, Punjab.
11	Sachin, M., Madhusudhan, H. S., Prabhu, T. M., Veeregowda, B. M., Yathish, H. M., Shylesh, B., Suhas, P. C., Shankarappa Bhajantri and Prasanna, S.B.	Best Paper Presentation Award	2022	November 16-18 <sup>th</sup> , 2022 19 <sup>th</sup> Biennial International Conference of Animal Nutrition Society of India Ludhiana, Punjab.
12	Girish, S., Suma, N., Prabhu, T. M., Shankrappa Bhajantri, Madhusudhan, H. S., Naveen Kumar, S. and Navyashree, G.	Best Paper Presentation Award	2022	November 16-18 <sup>th</sup> , 2022 19 <sup>th</sup> Biennial International Conference of Animal Nutrition Society of India Ludhiana, Punjab.
13	Adarsh, J., Suma, N., Prabhu, T.M., Jayanaik, Umashankar, B.C. Malathi, V., Jaishankar, N., Prasanna, S.B. and Navyashree, G.	Best Paper Presentation Award	2022	November 16-18 <sup>th</sup> , 2022 19 <sup>th</sup> Biennial International Conference of Animal Nutrition Society of India Ludhiana, Punjab.
14	Dr. Suresh B N	Pashudhan Samridhhi Award	2022	Pashudhan Praharee, Karnal
15	Dr. Suresh B N	Reviewer Excellence Award	2022	ARCC Publications, Karnal
16	Dr. Suresh B N	Second Best Poster Award	2022	Indian Poultry Science Association, Izatnagar
17	Prasad, M.G., S. Wilfred Ruban, M. Kiran and R. Prabha	Best Poster award (2 <sup>nd</sup> )	2022	11 <sup>th</sup> International conference of Indian Meat Science Association held at NRC, Meat Hyderabad between 14-16 December, 2022
18	Dr. H. C. Indresh	Best Veterinarian Award	28.01.23	Karnataka Veterinary Association
19	Dr. H. C. Indresh	Kannada Ratna	09.11.22	Kannada Sangha

20	Dr. Girish, M. H.	Dr. V. Ramakrishna Silver jubilee medal for Anatomical Techniques	2022	IAVA symposium at Hisar 2022
21	Dr. Girish, M. H.	Dr. A. K. Srivastava award for Biotechnology and stem cell technology	2022	IAVA symposium at Hisar 2022
22	Dr. Ramesh, H.S.	Best Research award	April, 2022	International scientist award on Engineering, Science and Medicine
23	Dr. Ramesh, H.S.	Peer Recognition	2022	In recognition of an outstanding contribution to quality of the International Journal of Livestock Research
24	Dr. Ramesh, H.S.	Young Scientist Award	Feb, 2023	INRC Award (Accredited by World Research Council) CIN: U85300TN2022NPL150768
25	Dr. Ramesh, H.S.	SADHNA India Best Research Award at Doctorate Level 2022. Cash prize of 3000/- for the candidate & 2000/- for the Major Advisor	March, 2023	Awarded from Society for Advancement of Human and Nature (SADHNA), Dr.Y.S. Parmar University of Horticulture and Forestry, PO Nauni, Solan, Himachal Pradesh, India.
26	Dr. Suchitra, B.R.	Certificate of merit	2023	KVAFSU, on University foundation day on 17.01.2023
27	Dr. Suchitra, B.R.	Certificate of merit	2023	KVAFSU, on University foundation day on 17.01.2023
28	Prof. P. T. Ramesh	Recognition of the successful conduct of the 38 <sup>th</sup> Annual convention of the ISVM in the year 2020	2023	ISVM
29	Dr. D. Rathnamma	Dr.APJ Abdul Kalam Lifetime Achievement National Award” in the field of Teaching, Research and Publications	23 <sup>rd</sup> April, 2022	International Institute for Social and Economic Reforms (R), Bengaluru
30	Dr. Shrikrishna Isloor	Fellowship for the year 2022	2 <sup>nd</sup> August, 2022	Karnataka Science and Technology Academy (KSTA), Dept of Science and Technology, Govt of Karnataka

31	Dr. Shrikrishna Isloor	Best Teacher Award-2022-23	17 <sup>th</sup> January, 2023	KVAFSU, Bidar on on 18 <sup>th</sup> Foundation Day of KVAFSU, Bidar
32	Dr. Shrikrishna Isloor	Dr.C.M.Singh-Salihotra Samman, 2022	2022	Dr.C.M.Singh Endowment Trust Bareilly, UP
33	Dr.Sindhoora, Dr.H.Dhanalakshmi, Dr.Sandeep and others	Second prize in poster presentation	Dec, 2022	IAAVP - Indian Association for the advancement of Veterinary Parasitology
34	Dr.Sandeep, Dr.H.Dhanalakshmi, Dr.Sindhoora and others	First prize in oral presentation	Dec, 2022	IAAVP - Indian Association for the advancement of Veterinary Parasitology
35	Dr. G.S. Mamatha	Awarded Reviewer Certificate	Feb, 2023	Kerala Veterinary and Animal Sciences University, Journal of Veterinary and Animal Sciences
36	Dr. Pavithra, B.H.	Second prize for the oral presentation	2022	Indian Society of Veterinary Pharmacology and Toxicology (ISVPT) at XXII Annual Conference of "Indian Society of Veterinary Pharmacology & Toxicology and International Symposium held at Veterinary College and Research Institute, Namakkal, Tamil Nadu from 02 <sup>th</sup> to 04 <sup>th</sup> November 2022
37	Dr. M. Narayana Swamy	Reviewer Excellence Award	July, 2022	Agricultural Research Communication Center (ARCC)
38	Dr. M. Narayana Swamy	Belli Sambhrama Prashasti	Dec, 2022	Dalitha Sahithya Parishattu (Regd), State Unit, Gadag
39	Dr. M. Narayana Swamy	Reviewer Excellence Award	January, 2023	Agricultural Research Communication Center (ARCC)
40	Dr. M. Narayana Swamy	Recognised to serve as Member of Technical Expert Committee of Karnataka Biodiversity Board, Govt. of Karnataka.	Feb, 2023	Karnataka Biodiversity Board, Govt. of Karnataka, Vanavikas, 18 <sup>th</sup> Cross, Malleshwaram, Bengaluru - 03.
41	Dr. G. P. Kalmath	Certificate of Excellence in Peer-Reviewing	Nov, 2022	MB International Media and Publishing House, Uttar Pradesh Journal of Zoology
42	Dr. G. P. Kalmath	Reviewer Excellence Award	March, 2023	Agricultural Research Communication Center (ARCC)

43	Dr. G. P. Kalmath	Certificate of Excellence in Peer-Reviewing	March, 2023	MB International Media and Publishing House, Uttar Pradesh Journal of Zoology
44	Sanjeevakumar, L., Suguna Rao, Byregowda, S.M., Chethan Kumar, H.B., Patil, S.S., Leena, G., Vivekprabhu, Manjunatha Reddy, G.B.	IAVP Best Poster Presentation award 2022 for 'Pathological and molecular diagnosis of Lumpy Skin Disease in Cattle, Karnataka'.	2022	Indian Association of Veterinary Pathologists.
45	Shivaprasad, G.R., Prakash, N, Suguna Rao, P.T. Ramesh, B.H. Pavithra, Leena Gowda	3 <sup>rd</sup> Prize for oral presentation for the paper entitled 'Melatonin ameliorates sub-chronic titanium dioxide nanoparticles induced serum biochemical, haematological, neoropharmacological and neurobiochemical alrerations in male wistar rats'	2-4 <sup>th</sup> Nov, 2022	XXII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology. 'Research: Way forward to Augment livestock health and production', organized by the Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Namakkal, TN, India.
46	Dr. B.N.Nagaraja	Best teacher Award	11.12.22	Indian Veterinary Association
47	P.A. Rahul., V. Mahesh, B.N. Nagaraja, H.D. Narayanaswamy, L. Ranganath and K.M. Srinivasamurthy.	International best research award for the paper "Studies on elastic stable intramedullary nailing for the treatment of diphyseal fracture of femur in skeletally immature dogs using elastic nails"	5 <sup>th</sup> March, 2023	High society ISSN international science and technology awards in association with world research council.
48	R.S. Sagar, P.T. Ramesh, M.A. Kshama, V. Mahesh, V.S. Lathamani	Best poster presentation in ISVM 2023 for laser therapy as an alternate therapy in the treatment of canine geriatric osteoarthritis	22-24 Feb, 2023	ISVM 2023
<b>VETERINARY COLLEGE, BIDAR</b>				
1	Kiran M	Certificate of excellence- Best researcher award	2022	Science father
2	KiranM	Certificate of appreciation	2022	Indian Meat Science Association



3	Kiran M	Best oral presentation Kiran, M., Naveena B M., and Deepika J. Mapping global demands in meat tenderness research using google scholar database	2022	Indian Meat Science Association
4	Kiran M	Best oral presentation award Prasad M G., Wilfred R S., Kiran M., and R Prabha. Effect of aqueous extract of Pomelo fruit on quality of spent goat Meat.	2022	Indian Meat Science Association
5	Kiran M	Best oral presentation award Deepika J and Kiran M. Acceptance and awareness of alternative proteins among the students of Veterinary College Bidar	2022	Indian Meat Science Association
6	Dr.D.T. Naik	Prestigious Dr.C.M. Singh Shalihotra Pratibha Samman Award	2022	Www.Pashudhanprahari.Com
7	Krishna Murthy C M	Certificate of Appreciation Award For the best poster	Nov.2022	KVAFSU, (Bidar)Veterinary College, Bidar on 39 <sup>th</sup> Foundation Day of VCB
8	Adeppa J	Certificate of Appreciation Award For the best poster	Nov. 2022	KVAFSU, (Bidar)Veterinary College, Bidar on 39 <sup>th</sup> Foundation Day of VCB
9	Kartik Bidari Jahangir D Dilipkumar D Bhagavantappa B	First oral presentation in avian wild and exotic orthopaedic session	2022	National seminar conducted by dept. of VCC, college of veterinary science, SVVU Tirupati, Andhra Pradesh, 26 to 27 <sup>th</sup> August 2022
10	Pallavi Dilipkumar D Bhagavantappa B	Second oral presentation in avian wild and exotic orthopaedic session	2022	National seminar conducted by dept. of VCC, college of veterinary science, SVVU Tirupati, Andhra Pradesh 26 to 27 <sup>th</sup> August 2022
11	Suhan Dilipkumar D Bhagavantappa B	First oral presentation in Exotic pet and avian practice	2022	TANUVAS 12 <sup>th</sup> Clinical case conference on farm and copmanino animal practice for post graduate 10 and 11 <sup>th</sup> August 2022

12	Dilipkumar D Bhagavantappa B Manjunath DR Vivek kasralikar	First oral presentation in farm animal surgery	2022	National clinical case conference for veterinary students conducted by college of veterinary science, SVVUT, Proddatur 29 <sup>th</sup> July 2022
13	Vijykumar Dilipkumar D Bhagavantappa B Venkatgiri	Second oral presentation in large animal orthopaedic session	2022	National clinical case conference for veterinary students conducted by college of veterinary science, SVVU Tirupati, Andra Pradesh, 26 to 27 <sup>th</sup> August 2022
14	Jahangir D, Dilipkumar D Bhagavantaapp B Kartik Bidari and Gurudev Karajagi	Appreciation award in avian session	2023	National symposium and annual congress of ISVS at Veterinary College, MAFSU, Nagpur 11 to 13 <sup>th</sup> 2023
15	Dr. Vijay Kumar.M	Advisory Board Member Editorial Member	2023	Indian Journal of Veterinary Public Health International Research Journal of Pharmacy International Journal of Food and Additives and Dietics Livestock Line Gene
16	Dr. Arun Kharate	Best Poster Presentation Award	2022	Indian Meat Science Association XI Conference of Indian Meat Science Association and International Symposium on “Novel Technologies and Policy Interventions for Sustainable Meat Sector” held on December 14-16, 2022 at Hyderabad.
17	Dr. Arun Kharate	Best Oral Presentation Award	2022	Indian Meat Science Association XI Conference of Indian Meat Science Association and International Symposium on “Novel Technologies and Policy Interventions for Sustainable Meat Sector” held on December 14-16, 2022 at Hyderabad
18	Dr, Vivek R Kasralikar	Fellow of ISVM- 2022	2022	XXXIX Annual Convention of ISVM at GBPUA& T Pantanagar, Uttarkhand (22- 24 Feb 2023)\

19	Dr. Channappagouda Biradar	Best Scientist Award of Society of Krishi Vignyan	2022	Outstanding contributing in the field of Veterinary Science on the occasion of 3 <sup>rd</sup> National conference of Natural Farming, Organic farming and chemical farming in Indian agriculture held during 17-19 October 2022
<b>VETERINARY COLLEGE, SHIVAMOGGA</b>				
1	Venkatesha, M.M., Umesh, B.U., Satheesha, G.M., Thirumalesh, T, Sushma, H A, Naveen Kumar, B.T. Giridhar, K.S. and Jayashree R.	Best oral presentation	2022	National symposium on “Innovations and Livestock Sector for enhancing Entrepreneurship and Farm productivity, ICAR-IGFRI, Jhansi
2	Vishwanatha, U. Thirumalesh, T., Venkatesha, M.M., Nagabhushana, V. and Kotresh, A.M.	Best poster presentation	2022	National symposium on “Innovations and Livestock Sector for enhancing Entrepreneurship and Farm productivity, ICAR-IGFRI, Jhansi
3	Dr. Lakshmeshree KT	Reviewer excellence award	2022	Agricultural science digest (certificate dt. 30/9/2022) of ARCC journal
4	Dr. Lakshmeshree KT	Reviewer excellence award	2022	Indian journal of Animal Research (certificate dt. 31/12/2022) of ARCC journal
5	Dr. Dhoolappa M.	Swachata Sarathi Fellowship	2022	Waste to Wealth Mission, PSA, GoI
6	Dr. R. Jayashree	Best oral presentation award- Dr. R. Jayashree for the paper title “Propagation of naturally available fodder resources an important strategy for preservation of Malnad Gidda cattle breed native of Karnataka”	2022	National Symposium on 1 <sup>st</sup> to 3 <sup>rd</sup> Nov 2022 “Innovations in Forage and Livestock Sector for enhancing Entrepreneurship and farm productivity” Organized by Range management society of India (RMSI) and ICAR, IGFRI, Jhansi, Uttar Pradesh
7	Dr. Malathi. V	Certificate of Merit - 5 Nos For mobilization of Research Grants from external funding agencies	2023	KVAFSU

8	Dr. Malathi. V	Dr. P. kothandaraman Memorial Award during IPSACON 2022 (co-presenter)	2022	Indian Poultry Science Association
9	Dr. Malathi. V	First Prize in Paper presentation during IPSACON 2022 (co-presenter)	2022	Indian Poultry Science Association
10	Dr. Malathi. V	First prize in poster presentation during National Seminar on Regenerative Agriculture under changing climatic scenario in peninsular India (co-presenter)	2022	UAS(D)
11	Dr. Shambulingappa B.E	Fellow of National Environmental and Science Academy-2022	2022	NESA New-Delhi
12	Mamatha S.P, Dr.Madhavaprasad C.B, Dr.Arun Kharate, Dr.Prashanth S Bagalakote, Sundareshan S, Shamanth Rakkith R.N, Jithendra B.U, and Hemanth	Best Poster Presentation (2 <sup>nd</sup> position)	December, 2022	International Symposium on “Zoonotic and Transboundary Diseases: Breaking the chain through multidisciplinary approach & XVIII <sup>th</sup> Annual Conference of Indian Association of VPH Specialists from 1st and 2 <sup>nd</sup> December 2022 at ICAR Complex, Umiam, Meghalaya
13	Veenakumari A.N., Arun S.J., Sundareshan S., Sheela P., Prashanth S Bagalakote and Kavita Rani B	Best Poster Presentation (2 <sup>nd</sup> position)	May, 2022	Annual Convention of Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases & National Conference on Current Trends in Immunodiagnosics & Vaccinology for Health of Livestock & Poultry 27-28 May, 2022
14	Ananda K. J., Kavitha Rani, B., N. K. Dharanesha, Manjunath, S. S., Jayaramu, G. M. and Vinay, S.	Best Oral Presentation Award	2022	National Congress of Parasitology on “Global technological advancements in the diagnosis and sustainable control of parasitic diseases” organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.

15	Ananda, K. J., Placid E.D'Souza and Shrikrishna Isloor.	Best Oral Presentation Award	2022	31 <sup>st</sup> National Congress of Parasitology on "Global technological advancements in the diagnosis and sustainable control of parasitic diseases" organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.
16	Sunitha, C. R., Ananda, K. J., Yuvaraja, T. Y., Dhanalakhmi, H., Myreddy Nikhil, Siju Susan Jacob and P. P. Sengupta <sup>2</sup> .	Best Oral Presentation Award	2022	31 <sup>st</sup> National Congress of Parasitology on "Global technological advancements in the diagnosis and sustainable control of parasitic diseases" organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.
17	Yuvaraja, T. Y., Ananda, K. J., Siju Susan Jacob, Sunitha, C. R., Dhanalakshmi, H., Myreddy Nikhil and P. P. Sengupta <sup>2</sup>	Best Oral Presentation Award	2022	31 <sup>st</sup> National Congress of Parasitology on "Global technological advancements in the diagnosis and sustainable control of parasitic diseases" organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.
18	Yuvaraja, T. Y., Ananda, K. J., Sunitha, C. R., Dhanalakshmi, H., Myreddy Nikhil, Siju Susan Jacob, and P. P. Sengupta	Best poster Presentation Award	2022	31 <sup>st</sup> National Congress of Parasitology on "Global technological advancements in the diagnosis and sustainable control of parasitic diseases" organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.
19	Jayasri, , Ananda, K. J., Siju Jaccob, Myreddy Nikhil, Shrikrishna Isloor, Mamatha, G. S. and Manjunathareddy, G. B.	Best paper Award	2022	31 <sup>st</sup> National Congress of Parasitology on "Global technological advancements in the diagnosis and sustainable control of parasitic diseases" organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.



20	Myreddy Nikhil, Ananda, K. J., Siju Susan Jacob, Jayashree, V., Sunitha, C. R., Yuvaraja, T. Y., Manjunath Reddy, G. B and Sengupta, P. P.:	Best poster Award	2022	31 <sup>st</sup> National Congress of Parasitology on “Global technological advancements in the diagnosis and sustainable control of parasitic diseases” organized by Madras Veterinary College, TANUVAS, Chennai held between 10-12 November, 2022.
21	Madhu, R., Pavithra, B.H., Prakash, N., S. Rao, Ananda, K.J., Prashanth kumar Waghe, Sanganagouda Koppad.	Best Paper Presentation Award	2022	During 22 ISVPT 2022 and International Symposium on “New Horizons in Veterinary Pharmacology & toxicology Research: Way Forward to Augment Livestock Health & Production” Veterinary College & Research Institute, Namakkal, TN, India held between 02 to 04 November 2022.
22	Pradeep, B. S, Ananda, K. J, Muralidhar, Y , Rayulu, V.C and Prasad, T.N.V.K.V.	Best poster award (Second prize)	2022	9 <sup>th</sup> World Ayurveda Congress & Arogya Expo held at Goa, from 08 <sup>th</sup> to 11 <sup>th</sup> December, 2022.
23	Dr Shridhar NB	Fellow of ISVPT 2022	2022	Indian Society of Veterinary Pharmacology and Toxicology (ISVPT)
<b>VETERINARY COLLEGE, HASSAN</b>				
1	Dr. Vinuthan MK	Best Oral Presentation (First)	March 2023	College of Agricultural Sciences, UAS (B) Hassan & COMBETT, Bangalore
2	Dr. Ramesh D	Poster Presentation (Second)	March 2023	College of Agricultural Sciences, UAS (B) Hassan & COMBETT, Bangalore
3	Dr. Hemanth Gowda K	Best Oral Presentation (First)	March 2023	College of Agricultural Sciences, UAS (B) Hassan & COMBETT, Bangalore
4	Dr.Sobha Rani	Certificate of Excellence in reviewing	2023	Annual research & Review in biology
5	Dr. Nagappa Karabasanavar	Certificate of Merit and research grant incentive of Rs. 5,000/-	January 2023	Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar

6	Dr. Nagappa K.	Best Kannada language book in the Science and Technology for the book meat industry and meat processing	March 2023	Karnataka Science and Technology Academy, Department of Science and Technology, Government of Karnataka
7	Dr. Chethan K P	Young Scientist Award	2022	ICAR-Indian Grassland and Fodder Research Station, Srinagar, J&K. ICAR-National Agricultural Higher Education Project, Birsa Agricultural University, Ranchi, Jharkand & National Agricultural Development 8Cooperative Ltd, (NADCL) Baramull, J & K.
8	Dr. Chethan K P	Best PhD Thesis Award	2022	Animal Nutrition Society of India, Guru Angad Dev veterinary and Animal Sciences University, Ludhiana, Punjab.
9	Dr. Chethan K P	Best Paper Presentation Award	2022	19 <sup>th</sup> Biennial International Conference in Animal Nutrition held at Guru Angad Dev veterinary and Animal Sciences University, Ludhiana, Punjab.
10	Dr. Manjunatha, D. R	Best Clinician Award	2023	45 <sup>th</sup> ISVS conference organized by Nagpur Veterinary College, MAFSU, Nagpur
11	Dr. Manjunatha, D. R	Gold medal	2023	45 <sup>th</sup> ISVS conference organized by Nagpur Veterinary College, MAFSU, Nagpur
12	Ajjanagi Bhimappa, Dilipkumar, D., Bagavantappa, B., Manjunatha, D. R., Vivek kasaralikal and Manjunath Patil.	Best paper presentation award	2022	In a National clinical case conference for Veterinary students. Organized by CVSc, Proddatur, SVVU.
13	Nithyashree, S., Manjunatha, D. R., Priyanka, N, B. R. Balappanavar, Vilas, D., Anjali, K., and Hemanth.	Third Best paper presentation award	2022	In a National clinical case conference for Veterinary students. Organized by CVSc, Proddatur, SVVU.

14	Dr. Manjunatha, D. R.,	Pashudhan Samridhhi India Award-2022	2022	PASHUDHAN PRAHAREE presented award under award category SAGA of 75 Veterinarians Transforming India
15	Vasudevi, M. N., Manjunatha, D. R., Priyanka, N and B. R. Balappanavar	Second Best paper presentation award	2022	National clinical case conference for veterinary students held at CVSC Proddatur, SVVU on
16	Akshatha, P, Manjunatha, D. R. Priyanka, N.,	Second prize	2022	TANUVAS 12 <sup>th</sup> clinical case conference on farm and companion animal practice for Veterinary students
17	Girish, H. S, Manjunatha, D. R. and Priyanka, N.,	Second prize	2022	TANUVAS 12 <sup>th</sup> clinical case conference on farm and companion animal practice for Veterinary students

**VETERINARY COLLEGE, GADAG**

1	Shivakumar, K. Radder	National Facilitator	2022-23	MANAGE, Hyderabad
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**DAIRY SCIENCE COLLEGE, BENGALURU**

1	Dr. Harini Venugopal	Dr. Abdul Kalam Science award	on 19 <sup>th</sup> November 2022	National institute for social and economic reformer - Millet year
2	Dr. Shilpashree. B.G.	Best paper award	March 2023	49 <sup>th</sup> Dairy industry conference held at Gujrat from 16 <sup>th</sup> to 31 <sup>st</sup> March 2023
3	Dr. Shilpashree, B.G.	Poster presentation award	March 2023	449 <sup>th</sup> Dairy industry conference held at Gujrat from 16 <sup>th</sup> to 18 <sup>th</sup> March 2023
4	Dr. .B.P Pushpa.	Outstanding Scientist award	2021-2022	14 <sup>th</sup> ICAHFS—2022 new Delhi

**COLLEGE OF FISHERIES, MANGALURU**

1	Dr. Ganapathi Naik M	Reviewer Excellence Award	2022	Agricultural Research Communication Centre, Karnal, Haryana
2	Dr. A.T. Ramachandra Naik	Best poster presentation	2022	TDr.JJFU, Nagapattinam

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

1	Dr. B.M. Chandranaik	Best Research Paper Award	2022-23	Dept of Science and Technology Govt of Karantaka
2	Dr. Amitha Reena Gomes	Professor Ram Krishna Kiran Shukla Award 2022	April 2022	Indian Association for the Advancement of Veterinary Research
3	Dr. Amitha Reena Gomes	Certificate of Merit	Jan 2023	KVAFSU

4	Sanjeevkumar, Shivaraj B M, Shivashankar B P, Raveendra Hegde, Gowthami, Nandini, M D Venkatesha	Second best presentation award on “Clinical data driven epidemiology revealed enexpeditious spread of sheep associated Malignant catarrhal fever virus among susceptible hosts”	May 2022	XXXIV Convention of IAVMI and National conference
7	Dr.Sudharani	Best Ph.D., Thesis Award	2022	Society For Scientific Development in Agriculture & Technology
8	Dr. Shankar, B.P.,	Emerging Veterinary Award	2023	KVA
9	Dr. Shankar, B.P.,	Best poster presentation	2022	Indian society of Veterinary Pharmacology and Toxicology
10	Dr. Shankar, B.P.,	Best oral presentation	2022	National congress of Veterinary Parasitology
11	Dr. Shankar, B.P.,	Dr. C.M. Singh Veterinary Science Excellence award	2022	Pashudhan Pahare Society
12	Dr. Sanjeev Kumar	Best oral presentation	2022	IAVMI
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER (DEONI), HALLIKHED</b>				
1	Dr. Prakashkumar Rathod	Individual Contribution: Sustainable Agriculture Awards	June, 2022	Sustainable India, New Delhi
2	Dr. Prakashkumar Rathod	Excellence in Extension Award	June, 2022	Astha Foundation, Meerut during IV International Conference
<b>ANIMAL HUSBANDRY POLYTECHNIC, KUNNUR-HAVERI</b>				
1	Dr.Shambhulingappa Baddi	Editorial member for Indian Journal of Veterinary Anatomy	2022	Indian Association of Veterinary Anatomists

**b) Research Incentives:**

#	Name of PI & Co-PI	Title of the Project	Duration	Funding Agency	Total Amount (Lakhs)	Remarks
1	PI - Dr. S.B. Prasanna Co-PI's: Dr.Shankrappa Bajantri Dr.Mahadevappa.D.Gouri Dr.B.C.Umashankar Dr.Shivraj Murug	Field trial to study the effect of feeding multiplex organic magic on milk production in cattle	October, 2019 to June, 2020	Multiplex Biotech Pvt. Ltd, Bengaluru	2.65	Certificate of Merit
2	PI- Dr.Suchitra.B.R Co-PI's Dr.G. Sudha & Dr. Yathish.H.M	Strategies to ameliorate the effect of abiotic stress on the reproductive parameters in rams by using nano materials	December, 2019 to July, 2021	VGST, GoK	4.36	Certificate of Merit
3	PI- Dr. Suchitra. B. R Co-PI's Dr. Narasimhamurthy & Dr. G. Sudha	Therapeutic efficacy of Minerals, Vitamins and Antioxidant in combination to augment fertility in female dogs (NUTRICH)	November, 2018 to June, 2020	VIRBAC, Animal Health	1.47	Certificate of Merit
4	PI- Dr. S.M. Byregouda (Rtd) Co-PI's Dr. Amitha Reena Gomes	Development of rabies viral vectored contraceptive vaccine for dogs	March, 2018 to September, 2020	DBT, New Delhi	31.90	Certificate of Merit + Rs.15,000 Incentive
5	PI- Dr.V. Nagabhushana Co-PI's Dr.T.Tirumalesh Dr.Manju.G.U	Establishment of Model Feed Technology Unit in Malnad Region.	May, 2019 to March, 2021	RKVY	50.00	Certificate of Merit
6	PI- Dr.K.N. Prabhudeva (Rtd) Co-PI Dr.K.B. Rajanna	Demonstration of utilization of saline alkaline and waterlogged areas for fish culture in Cauvery, Tungabhadra and krishna command areas	November, 2017 to May, 2020	RKVY	27.68	Certificate of Merit



7	PI- Dr. Pavitra.B.H Co-PI's Dr. N. Prakash Dr. Santosh.C.R Dr. Leena.G Dr. Rashmi.R	Evaluation effect of halquinol on intestinal motility and determination of its current MIC	May, 2018 to May, 2019	Quadra gen Vet Health Pvt. Ltd, Bangalore	1.01	Certificate of Merit
8	PI- Dr. E.G. Jayaraj (Rtd) Co-PI's Dr. Chandrakant Linghdhal (As PI from 23.07.2020)	All India Network Project on Mariculture	2017-18 to 2020-21	ICAR-CMFRI-Kochi	44.25	Certificate of Merit + Rs.15,000 Incentive
9	P.I : Dr. Malathi, V Co.PI: Dr. Jayanaik	Effects of Bentonite and Yeast cell wall fraction on performance and health of broiler chickens during multiple mycotoxin challenge	December, 2018 to January, 2020	Nutreco, Netherlands	12.1726	Certificate of Merit + Rs.10,000 Incentive
10	P.I : Dr. Malathi, V Co.PI: Dr. Jayanaik Dr. Kavitha Rani. B	Determination of beneficial effects of Yeast cell wall-based Mycotoxin binder in broiler birds: Evaluation for its Nutritive value	August, 2018 to January, 2020	Alletch, Kentucky, USA	12.23	Certificate of Merit + Rs.10,000 Incentive
11	P.I : Dr. Malathi, V Co.PI: Dr. Prasanna. S.B	Evaluation of <i>B. laterosporusto</i> reduce Propagation of Domestic flies in Ruminant Faces	October, 2018 to December, 2020	Alletch, Kentucky, USA	2.60	Certificate of Merit
12	P.I : Dr. Malathi, V Co.PI: Dr. Jayanaik Dr. Kavitha Rani. B	Effects of yeast cell extract enriched with fatty acids and organic mineral on health and performance of broiler chicken exposed to heat stress	May, 2019 to March, 2021	Alletch, Kentucky, USA	6.65	Certificate of Merit + Rs.5,000 Incentive

13	P.I : Dr. Malathi, V Co.PI: Dr. M D. Gouri Dr. Suma. N	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	May, 2019 to March, 2022	Zeus Biotech Ltd, Mysore	1.50	Certificate of Merit
14	PI-Dr. Nagappa Karabasanavar Co-PI Dr. Anand.K.J Dr. Pradeep.B.S	E-Varaha information system for safe pork production in North eastern India	October, 2016 to December, 2018	Information Technology Research Academy	7.83	Certificate of Merit + Rs.5,000 Incentive

**7) Important decisions taken during 17<sup>th</sup> Research Council Meeting held on 10.10.2022 at KVAFSU, Bidar**

- Dr. Gopal Kumar suggested to take need based research project and research on improved management system. He also suggested to take project in the field of piggery.
- Dr. Exambar suggested to focus on conservation of Bannur mutton sheep breed and to give emphasis on other animal genetic resources in the view of climate resilient factors. He also suggested to give more emphasis on fish seed production and fish culture.
- Vice-Chancellor suggested to establish regression model for sea water monitoring by taking available data and also suggested to take up projects on Nano infusion technique and plastination and projects on piggery to address the livelihood of the farmers.

### 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
-NIL-				

##### b) Workshops:

#	Date	Place	Title	Organized by
-NIL-				

##### c) Seminars:

#	Date	Place	Title	Organized by
<b>VETERINARY COLLEGE, BENGALURU (VCH)</b>				
1	28.09.2022	KVC, Hebbal, Bengaluru	'World Rabies Day – 2022' with theme "One Health and Zero deaths"	KVC, Dept. of AH&VS, GoK and KVAFSU-CVA-RDL, WOA, VCH

##### d) Symposia:

#	Date	Place	Title	Organized by
-NIL-				

##### e) Trainings:

#	Date	Place	Title	Organized by
<b>VETERINARY COLLEGE, BENGALURU (VCH)</b>				
1	28.11.2022 to 02.12.2022	VCH	WOAH Regional Training of Trainers Workshop on Mass Dog Vaccination	WOAH, CVA-RDL and VMC, VCH-Bengaluru
2	18.01.2023 to 21.01.2023	VCH	WOAH Sub-Regional Training Workshop on Animal Rabies Diagnosis for South Asia	KVAFSU-CVA RDL jointly with WOA
3	01.03.2023 to 03.03.2023	VCH	Collection of Brain sample and Laboratory diagnosis of rabies in animals	KVAFSU-CVA RDL & NCDC under NOHPPCZ

ii) National Level

a) Conferences:

#	Date	Place	Title	Organized by
- NIL -				

b) Workshops:

#	Date	Place	Title	Organized by
<b>VETERINARY COLLEGE, HEBBAL, BENGALURU (VCH)</b>				
1	21.09.2022	HVC	Technical Interventions in Small Scale Rural Poultry	KVAFSU, Bidar and NABARD, Bengaluru
2	22.09.2022	HVC	Sustainable Farming Practices in Small Scale Rural Poultry	KVAFSU, Bidar and NABARD, Bengaluru
3	06.12.2022 to 07.12.2022	VCH	State level Workshop on Bridging Research & Extension Gap among Multi-Stakeholders for Sustainable Livestock Development in Karnataka State	KVAFSU, Bidar
4	19.12.2022	VCH	Dialysis techniques in small animal practice	VMD-VCH and SAVAVET
5	01.07.2022	VCH	Skill vigyan programme in biotechnology for Karnataka state Govt. PU College Lecturers	VMC-VCH and Karnataka Science & Technology Academy (KSTA)
6	14.07.2022	VCH	Proposed south asia rabies laboratory network	KVAFSU-CVA, RDL VMC-VCH
7	10.10.2022	VCH	Skill vigyan programme in biotechnology” for Karnataka State Govt. PU college Lecturers	VMC-VCH and Karnataka Science & Technology Academy (KSTA)
<b>VETERINARY COLLEGE, BIDAR (VCB)</b>				
1	23.09.2022 to 24.09.2022	VCB	Personality Development in Veterinary Profession	VCB under SCSP Grants
<b>VETERINARY COLLEGE, SHIVAMOGGA (VCS)</b>				
1	26.05.2022 to 27.05.2022	ODRC-VCS	Current trends in practical and therapeutic approach of large ruminant disorders	ODRC-VCS
2	24.06.2022 to 25.06.2022	ODRC-VCS	Therapeutic approach of large ruminant disorders and recent trends	ODRC-VCS
3	28.07.2022 to 29.07.2022	ODRC-VCS	Novel approach for diagnostic and therapeutic aspects of ruminant disorders	ODRC-VCS
4	23.09.2022 to 24.09.2022	ODRC-VCS	Practical approach for diagnostic and therapeutic aspects of ruminant disorders and obscure diseases	ODRC-VCS

5	12.01.2023 to 13.01.2023	ODRC-VCS	Therapeutic and practical approaches for combating emerging disorders of large ruminants	ODRC-VCS
6	23.02.2023 to 24.02.2023	ODRC-VCS	Integrated Therapeutic And Practical Approaches To Combat The Plethora Of Obscure Diseases in Large Ruminants	ODRC-VCS
7	23.09.2022 to 24.09.2022	VCS	Workshop on “Practical approach for diagnostic and therapeutic aspects of ruminant disorders and obscure diseases”	ODRC-VCS
8	28.07.2022 to 29.07.2022	VCS	Workshop on “Novel approach for diagnostic and therapeutic aspects of ruminant disorders”	ODRC-VCS
9	24.06.2022 to 25.06.2022	VCS	Workshop on “Therapeutic approach of large ruminant disorders and recent trends”	ODRC-VCS
10	26.05.2022 to 27.05.2022	VCS	Workshop on “Current trends in practical and therapeutic approach of large ruminant disorders”	ODRC-VCS
<b>VETERINARY COLLEGE, HASSAN (HVC)</b>				
1	21.09.2022	HVC	Technical Interventions in small scale rural poultry	HVC and NABARD and AHVS, Hassan
2	22.09.2022	HVC	Sustainable farming practices in small scale rural poultry	HVC and NABARD and AHVS, Hassan
3	29.09.2022 to 30.09.2022	HVC	Basics of ultrasound imaging for field Veterinarians	HVC, DAH&VS and IMV imaging Ltd.
4	12.01.2023	HVC	Launch of the policy brief on quality livestock service through in-situ value addition of indigenous knowledge: An approach to control tick infestation	NIF-India in collaboration with KVAFSU-HVC
5	19.01.2023	HVC	Personality development programme	HVC
6	10.02.2023	HVC	Basics biostatistics in animal research	HVC
7	23.02.2023	HVC	Laboratory animal research in accordance with ethical guideline	HVC
8	01.03.2023	HVC	Introduction to IPR	HVC and NIIPM-RGNIIPM, GOI
9	08.03.2022	HVC	Working group discussion on popularization of indigenous medications	NIF-India in collaboration with KVAFSU-HVC



<b>VETERINARY COLLEGE, GADAG (VCG)</b>				
1	27.09.2022	VCG	Indigenous cattle rearing: Pros and cons	VCG
<b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b>				
1	04.02.2023 to 06.02.2023	DSCH	Workshop on personality, performance and productivity enhancement for MBA student	DSCH
2	10.09.2022	DSCH	On day workshop on sensitization of students for IAS/KAS competitive exams	DSCH
3	04.02.2023 to 06.02.2023	DSCH	Workshop on personality, performance and productivity enhancement	DSCH
4	10.06.2022	DSCH	World Milk Day	ALDSCB & DSCB
5	26.11.2022	DSCH	National Milk Day	ALSDB, DSCB & IDA
<b>DAIRY SCIENCE COLLEGE, KALABURAGI (DSCK)</b>				
1	29.09.2022	DSCK	Advanced techniques in processing, production, quality and marketing of Dairy products	Alumni Association and DSCK
2	04.01.2023	DSCK	Food safety Regulations in Dairy Industry	Alumni Association and DSCK
<b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>				
1	23.05.2022	FCM	Migration Day (WFMD) and World Biodiversity Day	FRM-FCM
2	21.11.2022	FCM	World Fisheries Day-2022	FRM and FESE - FCM
3	28.02.2023	FCM	Save the Whale Shark	FRM and FESE - FCM
<b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b>				
1	03.08.2022	SRDDL, IAH&VB	Workshop on GOI National Action Plan for Prevention, Control & Containment of AI, SF, LSD & Glanders at SRDDL, IAH&VB, Bengaluru	SRDDL, IAH&VB
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED-BIDAR</b>				
1	14.06.2022	LRIC, Hallikhed	Workshop and training programme for Veterinary officers of Bidar district	RKVY-MDF Project, LRIC (Deoni), Bidar
2	14.02.2023	DAH&VS, Bidar	Need assessment for development of e-extension modules for Veterinary Officers	ICAR-NASF Project, LRIC (Deoni), Bidar
3	16.02.2023	DAH&VS, Bidar	Need assessment for development of e-extension modules for Veterinary Officers	ICAR-NASF Project, LRIC (Deoni), Bidar
4	14.03.2023	Doddaballapur	Workshop on need assessment for development of e-extension modules under ICAR-NASF Project	ICAR-NASF Project, KVAFSU, Bidar

<b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>				
1	24.05.2022	FRIC, Bhutnal	An overview of fisheries and aquaculture	FRIC, Bhutnal, Vijayapura
2	27.05.2022	FRIC, Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapura
3	12.07.2022 to 21.07.2022	FRIC, Bhutnal	Certificate course on biofloc	FRIC, Bhutnal, Vijayapura
4	19.07.2022	FRIC, Bhutnal	An introduction to fisheries and aquaculture	FRIC, Bhutnal, Vijayapur
5	27.08.2022	FRIC, Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapura
6	07.11.2022	FRIC, Bhutnal	Fisheries and aquaculture	FRIC, Bhutnal, Vijayapura
7	17.11.2022 to 26.11.2022	FRIC, Bhutnal	Introduction to fisheries and aquaculture	FRIC, Bhutnal, Vijayapura
8	26.02.2023	FRIC, Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapura
<b>KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU</b>				
1	30.04.2022	Mangaluru	One day Krishi mela during campaigning programme of 'Kisan bhagidari prathamikta hamari'	ICAR-KVK,DK, Mangaluru
2	10.08.2022	Kalleri	Agriculture workshop on conservation of petroleum products and energy efficient pumps	ICAR-KVK,DK, Mangaluru
3	13.01.2023	Sullia	Advanced fisheries technologies workshop	DOF, DK

**c) Seminars:**

#	Date	Place	Title	Organized by
<b>VETERINARY COLLEGE, BENGALURU (VCH)</b>				
1.	29.08.2022	VCH	National webinar on Dr. C.M. Singh Birth Centenary Year Celebrations on "Advances of veterinary sciences during platinum jubilee year of Indian independence"	VCH and Dr. C.M. Singh Endowment Trust, Bareilly, UP.
<b>VETERINARY COLLEGE, GADAG</b>				
1	30.04.2022	VCG	Strengthening Veterinary Resilience	VCG
<b>COLLEGE OF FISHERIES, MANGALURU (FCM)</b>				
1	13.03.2023	Mangaluru	Challenges and Opportunities in Food Business	FCM in association with IIPM-Bengaluru

<b>KRISHI VIGYAN KENDRA, DAKSHINA KANNADA-MANGALURU</b>				
1	04.08.2022	IAH&VB	Review meeting of Nodal officers' of southern states	SRDDL-IAH&VB
2	17.08.2022 to 19.08.2022	IAH&VB	Laboratory management services refreshers training programme as per ISO/IEC 17025:2017 & ISO 19011 standards	SRDDL-IAH&VB
3	17.01.2023 to 21.01.2023	SRDDL, IAH&VB and NSS, Hessaraghatta	Diagnosis of sexually transmitted diseases, tuberculosis and Johne's disease in breeding bulls	SRDDL, IAH & VB and NSS, Hessaraghatta, Bangalore
4	14.02.2023	IAH&VB	Review of Nodal officers of southern states	SRDDL-IAH&VB
5	15.02.2023	IAH&VB	Sample Collection for BSE	SRDDL-IAH&VB

**d) Symposia:**

#	Date	Place	Title	Organized by
- NIL -				

**e) Trainings:**

#	Date	Place	Title	Organized by
<b>VETERINARY COLLEGE, BENGALURU (VCH)</b>				
1	10.05.2022 to 14.05.2022	LPT-VCH	Poultry meat and egg products preparation	VCH and KCPF, Bengaluru
2	24.05.2022 to 28.05.2022	LPT-VCH	Poultry meat and egg products preparation	VCH and KCPF, Bengaluru
3	27.05.2022	Koramangala Village, Devanahalli Tq. Bangaluru Rural District	Modern livestock rearing practices	VAHEE -VCH
4	16.09.2022	Baluvanhalli village, Sidlaghatta Taluk, Chickaballapur District	Improvised livestock rearing practices	VAHEE -VCH
5	23.08.2022	VCH	Collection of brain sample and laboratory diagnosis of rabies in animals	KVC, KVAFSU- CVA-RDL & AH&VS
6	02.09.2022	HVC	Collection of brain sample and laboratory diagnosis of rabies in animals	KVC, KVAFSU- CVA-RDL & AH&VS
7	21.09.2022	VCG	Collection of brain sample and laboratory diagnosis of rabies in animals	KVC, KVAFSU- CVA-RDL & AH&VS

8	01.03.2023 to 03.03.2023	RDL-VCH	Collection of brain sample & laboratory diagnosis of rabies in animals	KVAFSU-CVA RDL & NCDC under NOHPPCZ
9	05.01.2023 to 25.01.2023	VPA-VCH	Application of diagnostic tools for parasitic diseases of veterinary and public health importance	VPA-CAFT, VCH
<b>VETERINARY COLLEGE, BIDAR (VCB)</b>				
1	13.09.2022	VCB	Collection of brain sample and laboratory diagnosis of rabies in animals	KVC-KVAFSU CVA-RDL
2	11.02.2023	Hippalagav, Bidar	Food safety practices of meat and milk production	VPE-VCB
3	11.10.2022 to 12.10.2022	VCB	Diagnostic imaging	VSR-VCB and DAH&VS
4	13.03.2023	VCB	Veterinary, fisheries and other related issues	VSR-VCB
<b>VETERINARY COLLEGE, SHIVAMOGGA (VCS)</b>				
1	14.09.2022 to 15.09.2022	VCS	Scientific poultry farming	EEC-VCS
2	21.09.2022 to 22.09.2022	VCS	Scientific sheep and goat farming	EEC-VCS
3	04.08.2022 to 05.08.2022	VCS	Entrepreneurship of poultry farming	LFC-VCS under ICAR SC-SP Grants
4	09.08.2022	VCS (online)	Profitable poultry farming	LFC-VCS
5	13.09.2022	Sooragondanak oppa, Davanagere (Dist)	Human resource development, need based interventions for Livelihood Government upliftment and awareness programme on policies and plans in SC clusters	LFC-VCS under ICAR SC-SP Grants
6	14.10.2022	VCS	World egg day	LFC-VCS
7	06.03.2023 to 07.03.2023	VCS	Entrepreneurial opportunities in Sheep and Goat Farming” in collaboration with ICAR-Nivedi, Bengaluru	LFC-VCS and ICAR Nivedi, Bangalore
8	27.09.2022	VCS	Training on fodder production and Demonstration of silage making	MGRSIC-VCS
9	01.12.2022	VCS	Training on fodder propagation and seedling production	MGRSIC-VCS
10	16.12.2022	VCS	Training on fodder propagation and seedling production	MGRSIC-VCS
11	30.12.2022	VCS	Training on fodder propagation and seedling production	MGRSIC-VCS
12	23.01.2023	VCS	Training on fodder propagation and seedling production	MGRSIC-VCS
13	02.02.2023	VCS	Training on fodder propagation and seedling production	MGRSIC-VCS

14	01.03.2023	VCS	Training on fodder propagation and seedling production	MGRSIC-VCS
15	06.07.2022	ARS, Bhavikere and Veda Dairy Farm Tarikere	Exposure visit to modern dairy units	VCS under ICAR-TSP Grants
16	09.09.2023	AHP, Koravangala	Exposure visit to modern Sheep units	VCS under ICAR-TSP Grants
<b>VETERINARY COLLEGE, HASSAN (HVC)</b>				
1	30.04.2022	HVC	World Veterinary Day-2022	HVC
2	16.06.2022 to 22.06.2022	Kuppalli	NSS camp and various training programs	NSS Unit- HVC
3	28.06.2022 to 30.06.2022	HVC (Online)	Innovations in dairy management	EEC- HVC in collaboration with MANAGE, Hyderabad
4	04.07.2022	Adopted Village, Kupalli, Hassan	Scientific cattle management	EEC- HVC
5	01.08.2022	HVC	Climate change and animal husbandry	NAFCC Project- HVC
6	05.09.2022 to 09.09.2022	HVC	Organised screening of educational/motivational video (Dr. Gururaj Karjagi & Dr. Krishne Gowda K) and guest lecture – Dr. Gurubasavaraj Y - Event – Commemoration of Shikshak Parv	HVC
7	28.09.2022	HVC	World Rabies Day-2022	HVC
8	29.09.2022 to 30.09.2022	HVC	Basics of ultrasound imaging to Veterinary Officers	HVC
9	29.11.2022 to 30.11.2022	HVC	Scientific piggery rearing	EEC- HVC
10	13.12.2022 to 14.12.2022	HVC	Scientific Poultry Rearing	EEC- HVC
11	20.01.2023	HVC	Diseases in animals and first aid	HVC
12	08.02.2023 to 09.02.2023	HVC	Empowerment of meat sector stakeholders and entrepreneurs	HVC under ICAR- NRC-Meat Grants
13	20.02.2023 to 26.02.2023	HVC	Scientific poultry rearing and meat based products marketing	VPT under ICAR SCSP-TSP Grants
14	23.02.2023	HVC	Role of balanced nutrition in infertility management	HVC



15	28.02.2023 to 09.03.2023	HVC	Profitable, scientific sheep farming	HVC under ICAR-TSP Grants
16	06.03.2023 to 10.03.2023	HVC	Improved poultry production	HVC under ICAR-TSP Grants
17	07.03.2023	HVC	Animal based organic horticulture and saplings and seeds distribution	IIHR & EEC-HVC
18	08.03.2023 to 09.03.2023	HVC	Empowerment of meat sector stakeholders and entrepreneurs	ICAR-NRCM, Hyderabad
19	09.03.2022	HVC	Eco-friendly tick control in dairy cattle using indigenous medications	NIF-India
20	12.03.2023	HVC	Release of policy brief and training program to milk union field officers	HVC and NIF Ahmedabad
<b>VETERINARY COLLEGE, GADAG (VCG)</b>				
1	21.09.2022	VCG	Training on laboratory diagnosis of rabies in animals,	KVAFSU-VCG, KVC and WOAHLR, VCH at VCG
2	23.11.2022 to 25.11.2022	VCG (Online)	Extension approaches for sustainable buffalo production	Veterinary College, KVAFSU, Gadag and MANAGE-Hyd, Hyderabad
3	08.12.2022	Surabhi Go-Jaivika Anudandhana Kendra, Gadag	Training Programme on desi cow based vegetable production	IIHR, Bengaluru and VCG
4	16.12.2022 to 18.12.2022	VCG	Livestock Entrepreneurship Development Programme for Youth	ICAR – NIVEDI, Bengaluru and VCG
<b>DAIRY SCIENCE COLLEGE, HEBBAL, BENGALURU (DSCH)</b>				
1	27.09.2022	DSCH	Personality development skills Under TSP Grants	DSCH
2	25.08.2022	DSCH	IPR-A protection to innovations under SCP grants	DSCH
3	30.05.2022	DSCH	Training Programme on preparation of value added Dairy Products	DSCH
4	05.01.2023	DSCH	Training Programme on preparation of value added Dairy Products	DSCH
5	20.06.2022 to 24.06.2022	DSCH	Training programme on Basics of Baking	MBA (Food Business), DSCH
6	08.07.2022 to 10.07.2022	Dept. of Dairy Business Management	Advanced Programme in Entrepreneurship Skills Set for Food Sector	MBA (Food Business), DSCH
7	13.07.2022	Dairy Science College, Bengaluru	Skill Development and Entrepreneurship opportunity for Downtrodden in Karnataka	DSCH

8	12.12.2022 to 31.12.2023	Dept. of Dairy Business Management	Training programme on Advanced MS Excel	MBA (Food Business), DSCH
9	18.04.2022 to 20.04.2022	DSCH	FSSAI regulatory requirements for assessing the chemical quality attributes of milk	DSCH
10	20.06.2022 to 24.06.2022	DSCH	Training programme on Basics of Baking	MBA (Food Business), DSCH
11	08.07.2022 to 10.07.2022	DSCH	Advanced Programme in Entrepreneurship Skills Set for Food Sector	MBA (Food Business), DSCH
12	13.07.2022	DSCH	Skill Development and Entrepreneurship opportunity for Downtrodden in Karnataka	DSCH
13	12.12.2022 to 31.12.2023	DSCH	Training programme on Advanced MS Excel	MBA (Food Business), DSCH
14	24.06.2022	DSCH	Demonstration of phage testing plaque assay method at the DSM laboratory, Dept. of Dairy Microbiology and Demonstration of Bacteriophage testing kit by Mr. ERIC, DSM, Netherland	DMC-DSCH and DSM
15	12.04.2022	DSCH	Organized Entrepreneurship development programme – one day workshop	DSCH
16	20.03.2023	DSCH	Orientation on Climate change	CEE, UNICEF and DMC-DSCH

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

1	17.05.2022 to 21.05.2022	FCM	Faculty development programme on competency enhancement in agricultural research and education	FCM
2	25.05.2022	FCM	Preparation of value added fish products & marketing opportunities	FCM
3	11.07.2022	FCM	Modern technologies in fish farming'	FCM
4	17.08.2022	FCM	Preparation of value added fish products & marketing opportunities	FCM
5	17.09.2022	FCM	Coordinated to organize a one day workshop on launching of 'Samarth eGov Suite' on leave and file tracking and management system	FCM
6	21.09.2022	FCM	Preparation of value added fish products & marketing opportunities	FCM
7	21.09.2022 to 25.09.2022	Brahmavara	Skill development, livelihood and entrepreneurship development programme in fisheries	FCM
8	17.10.2022	Punacha, Bantwal	Livelihood in fisheries: An awareness programme	FCM

10	19.10.2022	FCM	Fish and fishery products for alleviating malnutrition and hunger : current trends and future prospects	FCM
11	04.11.2022	FCM	Preparation of value added fish products & marketing opportunities	FCM
12	19.12.2022 to 22.12.2022	FCM	Export training programme on fish and marine products	FCM
<b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b>				
1	10.05.2022 to 20.05.2022	IAH&VB Hebbal	Hands on training program on vaccine production as per cGMP norms	IAH and VB
<b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KODAGU (IWVR)</b>				
1	18.07.2022	IWVR, Doddaluvara	Human-wildlife conflict and prevention strategies and other animal husbandry strategies	IWVR, Doddaluvara
2	13.02.2023	IWVR, Doddaluvara	Chemical restraint in wild animals	IWVR, Doddaluvara
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED-BIDAR</b>				
1	01.06.2022	LRIC, Hallikhed	Scientific dairy farming and world milk day celebration	RKVY-MDF Project, LRIC (Deoni), Bidar
2	04.07.2022	LRIC, Hallikhed	Scientific dairy farming and green fodder production	RKVY-MDF Project, LRIC (Deoni), Bidar
3	09.07.2022	LRIC, Hallikhed	Scientific dairy farming and green fodder production	RKVY-MDF Project, LRIC, Bidar
4	20.07.2022 to 21.07.2022	LRIC, Hallikhed	Scientific dairy farming	RKVY-MDF Project, LRIC (Deoni), Bidar
5	24.08.2022 to 25.08.2022	LRIC, Hallikhed	Scientific livestock management practices	ICAR-SCSP Project, LRIC (Deoni), Bidar
6	08.09.2022	LRIC, Hallikhed	Scientific livestock management practices	ICAR-SCSP Project, LRIC (Deoni), Bidar
7	09.09.2022	LRIC, Hallikhed	Scientific livestock management practices	ICAR-SCSP Project, LRIC (Deoni), Bidar
8	13.09.2022	LRIC, Hallikhed	Scientific dairy farming and green fodder production	RKVY-MDF Project, LRIC (Deoni), Bidar & PSFP Company, Kherda (B)
9	22.09.2022 to 23.09.2022	LRIC, Hallikhed	Scientific goat farming & distribution of goat feeds	ICAR-SCSP Project, LRIC (Deoni), Bidar
10	18.11.2022	Ghatboral, Humnabad	Scientific dairy farming	RKVY-MDF Project, LRIC (Deoni), Bidar

11	16.12.2022	LRIC, Hallikhed	Scientific dairy farming	RKVY-MDF Project, LRIC (Deoni), Bidar
12	17.12.2022	LRIC, Hallikhed	Scientific dairy Farming	RKVY-MDF Project, LRIC (Deoni), Bidar
13	20.12.2022	LRIC (Deoni), Bidar	Scientific dairy farming	RKVY-MDF Project, LRIC (Deoni), Bidar
14	28.02.2023	LRIC, Hallikhed	Scientific dairy farming	RKVY-MDF Project, LRIC (Deoni), Bidar
15	01.03.2023	LRIC, Hallikhed	Scientific dairy farming	RKVY-MDF Project, LRIC (Deoni), Bidar
16	26.03.2023	Hanumantwadi, Bidar	Need assessment for development of e-extension modules for Farmers	ICAR-NASF Project, LRIC, Bidar
17	27.03. 2023	LRIC, Hallikhed	Need Assessment for Development of e-Extension Modules for Farmers	ICAR-NASF Project, LRIC (Deoni), Bidar
18	28.03.2023	Koutha (B) and Kaudgaon, Bidar	Need Assessment for Development of e-Extension Modules for Farmers	ICAR-NASF Project, LRIC (Deoni), Bidar
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER (SHEEP), NAGAMANGALA</b>				
1	02.06.2022	LRIC(S), Nagamangala	Profitable sheep rearing	LRIC(S), Nagamangala
2	31.12.2022	LRIC(S), Nagamangala	Scientific sheep and goat rearing	LRIC(S), Nagamangala
3	21.02.2023	LRIC(S), Nagamangala	Improved animal husbandry practices	LRIC(S), Nagamangala
4	23.02.2023	LRIC(S), Nagamangala	Profitable sheep rearing	LRIC(S), Nagamangala
5	03.03.2023	LRIC(S), Nagamangala	Profitable dairy farming	LRIC(S), Nagamangala
6	08.03.2023	LRIC(S), Nagamangala	Improved animal husbandry practices	LRIC(S), Nagamangala
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, DORANAHALLI</b>				
1	06.06.2022	BRIC Dornahalli	One day insurance awareness programme on sheep and goat	BRIC-Doranahalli
2	03.09.2022	BRIC Dornahalli	One day technical training to farmers on scientific buffalo farming	BRIC-Doranahalli
3	15.09.2022	BRIC Dornahalli	One day technical training on sheep and goat rearing	BRIC-Doranahalli

<b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>				
1	27.04.2022	FRIC, Hebbal	One day workshop - creating Awareness on Recent Technology adoption in fisheries under PMMSY Schemes	FRIC(I), Hebbal and Dept. of Fisheries, Zilla Panchayath, Bengaluru Urban
2	10.07.2022	FRIC, Hebbal	Fish farmers day	FRIC(I), Hebbal and Dept. of Fisheries, Zilla Panchayath, Bengaluru Urban
3	14.07.2022 to 16.07.2022	FRIC, Hebbal	Biofloc and RAS	FRIC(I), Hebbal and DoF, Gok
4	22.07.2022 to 24.07.2022	FRIC, H'ghatta	Freshwater ornamental fish production and marketing	FRIC(I), Hebbal, Bengaluru and DoF, GoK
5	18.08.2022 to 20.08.2022	DoF, GoK, Challakere & Hiriyuru, V V Sagar,	Nursery rearing of the Indian major carps	FRIC(I), Hebbal, Bengaluru and DoF, Gok
6	16.09.2022 to 18.09.2022	FRIC, Hebbal	Hatchery production of Indian major carps	FRIC(I), Hebbal, Bengaluru and DoF, GoK
7	21.09.2022	FRIC, Hebbal	Feed Formulation and Management in Freshwater Aquaculture	FRIC(I), Hebbal, Bengaluru and DoF, Gok
8	23.09.2022	FRIC, Hebbal	Water quality management in freshwater aquaculture	FRIC(I), Hebbal, Bengaluru and DoF, Gok
9	21.10.2022	FRIC, Hebbal	Fish feed business by FFPOS"	In Collaboration with NCDC-Bengaluru & FRIC(I), Hebbal
10	18.12.2022	FRIC, Hebbal	Food safety for fisheries enterprises	In Collaboration with NCDC-Bengaluru & FRIC(I), Hebbal
11	21.02.2023 to 23.02.2023	FRIC, Hebbal	Formulation of business plans for fisheries enterprises	In Collaboration with NCDC-Bengaluru & FRIC(I), Hebbal
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>				
1	21.02.2023 to 22.02.2023	FRIC(I), Hesaraghatta	Fish culture in ponds and tanks	FRIC(I), Hesaraghatta, Bengaluru
2	24.02.2023 to 25.02.2023	FRIC(I), Hesaraghatta	Integrated fish farming	FRIC(I), Hesaraghatta, Bengaluru

<b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>				
1	04.05.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
2	06.05.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
3	07.05.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
4	24.05.2022	FRIC-Bhutnal	An overview of fisheries and aquaculture	FRIC, Bhutnal, Vijayapur
5	27.05.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
6	24.06.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
7	08.07.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
8	12.07.2022 to 21.07.2022	FRIC-Bhutnal	Certificate course on Biofloc	FRIC, Bhutnal, Vijayapur
9	19.07.2022	FRIC-Bhutnal	An introduction to fisheries and aquaculture	FRIC, Bhutnal, Vijayapur
10	26.07.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
11	05.08.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
12	20.08.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
13	27.08.2022	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
14	29.08.2022	FRIC-Bhutnal	An overview of inland fisheries	FRIC, Bhutnal
15	13.09.2022 to 15.09.2022	FRIC-Bhutnal	Recent developments in integrated fish farming	FRIC, Bhutnal, Vijayapur
16	07.11.2022	FRIC-Bhutnal	Fisheries and aquaculture	FRIC, Bhutnal, Vijayapur
17	17.11.2022 to 26.11.2022	FRIC-Bhutnal	Introduction to fisheries and aquaculture	FRIC, Bhutnal, Vijayapur
18	21.11.2022	FRIC-Bhutnal	An overview of Indian fisheries	FRIC, Bhutnal, Vijayapur
19	06.12.2022	FRIC-Bhutnal	Shrimp farming in Inland area	FRIC, Bhutnal, Vijayapur
20	30.01.2023	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
21	26.02.2023	FRIC-Bhutnal	Scientific fish farming	FRIC, Bhutnal, Vijayapur
22	10.03.2023	FRIC-Bhutnal	Fish farming in Biofloc system	FRIC, Bhutnal, Vijayapur



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

<b>A ON CAMPUS TRAINING PROGRAMME</b>				
1	08.07.2022	KVK,DK, Mangaluru	Save Soil Campaign	ICAR-KVK, DK, Mangaluru
2	15.09.2022	KVK,DK, Mangaluru	Save Soil Campaign	ICAR-KVK, DK, Mangaluru
3	11.10.2022 to 19.10.2022	KVK,DK, Mangaluru	Installation and training on soil test kit	ICAR-KVK, DK, Mangaluru
4	12.10.2022	KVK,DK, Mangaluru	Soil types of India and importance of soil testing	ICAR-KVK, DK, Mangaluru
5	13.10.2022	KVK,DK, Mangaluru	Soil and water conservation	ICAR-KVK, DK, Mangaluru
6	02.11.2022 to 05.11.2022	KVK,DK, Mangaluru	Installation and training on soil test kit	ICAR-KVK, DK, Mangaluru
7	31.10.2022 to 06.11.2022	KVK,DK, Mangaluru	Central vigilance awareness week	ICAR-KVK, DK, Mangaluru
8	21.12.2022	KVK,DK, Mangaluru	Importance and effective utilization of watershed programmes, self employment opportunities in Animal husbandary and management of pest and diseases in major crops of Hassan District	ICAR-KVK, DK, Mangaluru
9	22.12.2022 to 31.12.2022	KVK,DK, Mangaluru	Internship programme on soil and water analysis	ICAR-KVK, DK, Mangaluru
10	18.03.2023	KVK,DK, Mangaluru	Opportunities in Millet processing PM's live telecast programme	ICAR-KVK, DK, Mangaluru
11	30.04.2022	KVK,DK, Mangaluru	Scientific Coconut Cultivation Technologies	CDB, Bengaluru
12	17.09.2022	KVK,DK, Mangaluru	Nutri garden	ICAR-KVK, DK, Mangaluru
13	03.11.2022	KVK,DK, Mangaluru	Plant propagation and nursery management	ICAR-KVK, DK, Mangaluru
14	16.01.23 to 21.01.2023	KVK Mangaluru	Friends of coconut tree (FoCT) Palm climbing training programme	Coconut Development Board
15	06.02-2023 to 11.02.2023	KVK Mangaluru	Friends of coconut tree (FoCT) Palm climbing training programme'	Coconut Development Board
16	20.02.2023 to 25.02.2023	KVK Mangaluru	Friends of coconut tree (FoCT) Palm climbing training programme'	Coconut Development Board
17	13.03.2023 to 18.03.2023	KVK Mangaluru	Friends of coconut tree (FoCT) Palm climbing training programme'	Coconut Development Board
18	21.10.2022	KVK Mangaluru	Pesticides control order	KVK Mangaluru

19	01.011.2022 to 02.11.2022	KVK Mangaluru	Two days IPM orientation training programme to pesticides dealers/farmers	RCIPM Bengaluru
20	21.07.2022	KVK Mangaluru	Training on Animal husbandry activities to 2nd year BSc. Students of university College, Mangalore	KVK Mangaluru
21	11.10.2022 to 22.10.2022	KVK Mangaluru	Inter-institutional Internship training program to Agri. engineering students of Mohan Alva's eng. College	KVK Mangaluru
22	16.12.2022	KVK Mangaluru	Scientific piggery farming	KVK Mangaluru
23	16.01.2023	KVK Mangaluru	Scientific sheep and goat farming	KVK Mangaluru
24	16.05.2022 to 17.05.2022	KVK Mangaluru	Orientation and training to Sagar Mithras of Karnataka	DOF, GOK
25	10.07.2022	KVK Mangaluru	Inland fish culture	KVK Mangaluru
26	03.10.2022	KVK Mangaluru	Fish culture in farm ponds	KVK Mangaluru
27	20.10.2022	KVK Mangaluru	Fish waste management	KVK Mangaluru
28	21.11.2022	KVK Mangaluru	Feed based carp culture in farm ponds to enhance production	KVK Mangaluru
29	17.03.2023	KVK Mangaluru	Inland fish culture	KVK Mangaluru

**B OFF CAMPUS TRAINING PROGRAMME**

30	24.06.2022	Kilenjaru	Production technologies of Sahyadri Kempumukthi paddy variety for midlands of Dakshina Kannada	ICAR-KVK, DK, Mangaluru
31	21.06.2022	Kallamundkru	Celebration of international Yoga Day, Awareness programme on balanced use of Fertilizers and Agroforestry	ICAR-KVK, DK, Mangaluru
32	21.07.2022	Pavooru	Petroleum Conservation and Research Association awareness programme	ICAR-KVK, DK, Mangaluru
33	10.08.2022	Kalleri	Agriculture workshop on conservation of Petroleum products and energy efficient pumps	ICAR-KVK, DK, Mangaluru
34	01.09.2022	Badaga Karanduru	Effect of MgSO <sub>4</sub> on growth and yield of coastal paddy	ICAR-KVK, DK, Mangaluru
35	12.09.2022	Hirebandadi	Management of Potassium in coastal paddy	ICAR-KVK, DK, Mangaluru
36	05.12.2022	Sullia	Celebration of world soil day	ICAR-KVK, DK, Mangaluru

37	08.12.2022	Kavu, Puttur	Management of nut cracking and pre mature nut fall in areca nut	ICAR-KVK, DK, Mangaluru
38	09.12.2022	Balanja Belthangady	Effect of Dolomite soil conditioner on Areca nut yield and Soil acidity in coastal soils of Dakshina Kannada	ICAR-KVK, DK, Mangaluru
39	09.06.2022	Manjeshwar, Kerala	Udupi Jasmine Cultivation	ICAR-KVK, DK, Mangaluru
40	27.07.2022	Sree Rama High School	Kitchen and terrace gardening (Extension functionaries)	ICAR-KVK, DK, Mangaluru
41	09.09.2022	Daregudda, Moodibidri	Kitchen and terrace gardening	ICAR-KVK, DK, Mangaluru
42	09.09.2022	Panapilla, Moodibidri	Kitchen and terrace gardening	ICAR-KVK, DK, Mangaluru
43	09.09.2022	Nellikar, Moodibidri	Kitchen and terrace gardening	ICAR-KVK, DK, Mangaluru
44	12.09.2022	Hirebandadi, Puttur	Kitchen and terrace gardening	ICAR-KVK, DK, Mangaluru
45	12.11.2022	Kanyana	Integrated crop management and pruning of Udupi Jasmine	ICAR-KVK, DK, Mangaluru
46	15.11.2022	Moguru	Integrated management of rhinoceros beetle and red palm weevil in arecanut and coconut	FPO
47	16.11.2022	Mugeradka	Root grub management in arecanut	FPO
48	23.11.2022	Kadamaaje	Leaf spot management in arecanut	FPO
49	23.11.2022	Kadamaaje	Vermicompost production technology	FPO
50	07.12.2022	Iddabettu Sampige, Moodidri	Integrated Lanagement in Okra	ICAR-KVK, DK, Mangaluru
51	15.12.2022	VitlaPadanur, Bantwala	Leaf spot management in arecanut	FPO
52	20.12.2022	Manchi, Bantwala	Integrated management of rhinoceros beetle and red palm weevil in arecanut and coconut	FPO
53	22.12.2022	Kepu, Bantwala	Root grub management in arecanut	FPO
54	03.01.2023	Hosangady, Belthangady	ICM in ridge gourd	ICAR-KVK
55	03.01.2023	Hosangady, Belthangady	ICM in yard long bean	ICAR-KVK
56	19.01.2023	Peradi, belthangady	Improved cultivation practices of Horticultural crops	ICAR-KVK
57	20.01.2023	Perinje, Belthangady	Improved cultivation practices of Horticultural crops	ICAR-KVK
58	16.03.2023	Panja, Sullia	Integrated Crop Management in Coconut	CDB, Bengaluru
59	20.03.2023	Peruvai, Bantwala	Integrated Crop Management in Coconut	CDB, Bengaluru
60	23.03.2023	Kodiyala, Sullia	Integrated Crop Management in Coconut	CDB, Bengaluru
61	24.03.2023	Moodbidri	Integrated Crop Management in Coconut	CDB, Bengaluru

62	25.03.2023	Beluvai, Moodbidri	Integrated Crop Management in Coconut	CDB, Bengaluru
63	27.03.2023	Vittal, Bantwala	Integrated Crop Management in Coconut	CDB, Bengaluru
64	20.07.2023	Ichlampady Uppinangadi	Integrated diseases management in paddy	ICAR-KVK, DK, Mangaluru
65	23.08.2023	Kaliya	Integrated crop management in pepper and apple mango	KSDH
66	28.11.2023	Ubaradka	Management of leaf spot in arecanut	ICAR-KVK,
67	02.12.2022	Barimaru Bantwal	Integrated spindle bug management in arecanut	ICAR-KVK,
68	06.12.2022	Puttur	Integrated management of leaf spot in arecanut	ICAR-KVK,
69	09.12.2022	Balanja Belthangady	Management of inflorescence die back and button shedding in arecanut	ICAR-KVK,
70	09.12.2022	Belalu Bethangady	Integrated management of leaf spot in arecanut	ICAR-KVK,
71	12.12.2022	Mundooru	ICM in horticulture crops and Integrated management of leaf spot in arecanut	ICAR-KVK,
72	12.12.2022	Mundooru	Integrated management of stem and root borer in cashewnut	ICAR-KVK
73	07.02.2023	Mundooru	ICM in arecanut and Mango	ICAR-KVK
74	08.02.2023	-	Carbon fibre doti	-
75	01.09.2022	Kajoor Belthangady talluk	Demonstration of small ruminant mineral mixture on production performance in goats in coastal region	ICAR-KVK
76	14.12.2022	Permude, Mangaluru talluk	Use of probiotics for enhancement of milk yield in dairy cattle	ICAR-KVK
77	19.01.2023	Peradi Belthangady Taluk	Animal husbandry practices and Disease management	ICAR-KVK
78	20.01.2023	Perinje Belthangady Taluk	Animal husbandry practices and Disease management	ICAR-KVK
79	26.05.2022	Panja, Belthangady Taluk	Inland fish culture	ICAR-KVK
80	16.03.2023	Panja	Scientific fish farming	ICAR-KVK
81	18.03.2023	Melangadi	Fish nutrition	ICAR-KVK
<b>ANIMAL HUSBANDRY POLYTECHNIC, KONEHALLI-TUMAKURU</b>				
1	05.01.2023	AHP Konehalli	Sheep and Goat Feeding	AHP-Konehalli
2	12.01.2023	AHP Konehalli	Pig feeding	AHP-Konehalli

<b>ANIMAL HUSBANDRY POLYTECHNIC, BARGI-CHAMARAJANAGARA</b>				
1	11.04.2022 to 12.02.2022	AHP-Bargi	Administrative training Programme for Veterinary college , Hassan teaching and non teaching persons under SCSP- TSP programme	AHP-Bargi
<b>ANIMAL HUSBANDRY POLYTECHNIC, DORNAHALLI-YADGIR</b>				
1	31.10.2022	AHP-Dornahalli	District Level one day technical seminar for veterinarians	District Administration Yadagir, DAH&VS and AHP-Dornahalli

**ABSTRACT OF CONFERENCES/TRAININGS/WORKSHOPS/SEMINARS/SYMPOSIA  
ORGANIZED DURING 2022-23**

#	Institutes	International Level					National Level					Total
		Conference	Workshops	Seminars	Symposia	Trainings	Conference	Workshops	Seminars	Symposia	Trainings	
1	Veterinary College, Bengaluru	-	-	1	-	3	-	7	1	-	9	21
2	Veterinary College, Bidar	-	-	-	-	-	-	1	-	-	4	5
3	Veterinary College, Shivamogga	-	-	-	-	-	-	10	-	-	16	26
4	Veterinary College, Hassan	-	-	-	-	-	-	9	-	-	20	29
5	Veterinary College, Gadag	-	-	-	-	-	-	1	1	-	4	6
6	Dairy Science College, Bengaluru	-	-	-	-	-	-	5	-	-	16	21
7	Dairy Science College, Kalaburagi	-	-	-	-	-	-	2	-	-	-	2
8	College of Fisheries, Mangaluru	-	-	-	-	-	-	3	1	-	12	16
9	IAH and VB, Bengaluru	-	-	-	-	-	-	1	-	-	1	2
10	IWVR, Doddaluvara-Kodagu	-	-	-	-	-	-	-	-	-	2	2
11	LRIC, Hallikhed-Bidar	-	-	-	-	-	-	4	-	-	18	22
12	LRIC, Nagamangala-Mandya	-	-	-	-	-	-	-	-	-	6	6
13	LRIC, Konehalli-Tumakuru	-	-	-	-	-	-	-	-	-	-	-
14	BRIC, Dornahalli-Yadgir	-	-	-	-	-	-	-	-	-	3	3
15	CRIC, Timmapur-Bagalkot	-	-	-	-	-	-	-	-	-	-	-
16	FRIC, Hebbal-Bengaluru	-	-	-	-	-	-	-	-	-	11	11
17	FRIC, Hesaraghatta-Bengaluru	-	-	-	-	-	-	-	-	-	2	2
18	FRIC, Ankola-Uttar Kannada	-	-	-	-	-	-	-	-	-	-	-
19	FRIC, Bhutnal-Vijayapura	-	-	-	-	-	-	8	-	-	22	30
20	KVK-DK, Mangaluru	-	-	-	-	-	-	3	5	-	81	89
21	AHP, Konehalli-Tumakuru	-	-	-	-	-	-	-	-	-	2	2
22	AHP, Kunnur-Haveri	-	-	-	-	-	-	-	-	-	-	-
23	AHP, Koravangala-Hassan	-	-	-	-	-	-	-	-	-	-	-
24	AHP, Bargi-Chamarajnar	-	-	-	-	-	-	-	-	-	1	1
25	AHP, Dornahalli-Yadgir	-	-	-	-	-	-	-	-	-	1	1
	<b>TOTAL</b>	-	-	<b>1</b>	-	<b>3</b>	-	<b>54</b>	<b>8</b>	-	<b>231</b>	<b>297</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	74	14	1	1	4	108
2	Veterinary College, Bidar	4	29	-	1	-	-	34
3	Veterinary College, Shivamogga	10	81	53	4	2	-	150
4	Veterinary College, Hassan	-	95	13	2	-	-	110
5	Veterinary College, Gadag	2	59	6	2	2	1	76
6	Dairy Science College, Bengaluru	9	18	9	6	8	7	57
7	Dairy Science College, Kalaburagi	-	4	-	-	-	-	4
8	College of Fisheries, Mangaluru	-	16	4	-	-	-	20
9	IAH&VB, Bengaluru	2	106	11	8	-	1	128
10	IWVR, Doddaluvara-Kodagu	-	-	-	1	1	-	2
11	LRIC, Hallikhed-Bidar	1	22	1	-	-	3	27
12	LRIC, Nagamangala-Mandya	-	-	-	-	-	-	-
13	LRIC, Konehalli-Tumakuru	-	-	-	-	-	-	-
14	BRIC, Dornahalli-Yadgir	-	151	-	-	-	-	151
15	CRIC, Timmapur-Bagalkot	-	-	-	-	-	-	-
16	FRIC, Hebbal-Bengaluru	-	15	-	-	-	-	15
17	FRIC, Hesaraghatta-Bengaluru	-	21	-	-	-	-	21
18	FRIC, Bhutnal-Vijayapura	-	14	8	-	-	-	22
19	FRIC, Ankola-Uttar Kannada	-	5	-	-	-	-	5
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	-	229	2	-	-	-	231
21	AHP, Konehalli-Tumakuru	-	8	-	-	-	-	8
22	AHP, Kunnur-Haveri	-	-	-	-	-	-	-
23	AHP, Koravangala-Hassan	-	-	-	-	-	-	-
24	AHP, Bargi-Chamarajnar	-	1	-	-	-	-	1
25	AHP, Dornahalli-Yadgir	-	-	-	-	-	-	-
<b>Total</b>		<b>42</b>	<b>948</b>	<b>121</b>	<b>25</b>	<b>14</b>	<b>16</b>	<b>1170</b>

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

#	Institution	Conferences	Training Programmes	Workshops	Seminars	Symposia	Winter/ Summer Schools	Total
1	Veterinary College, Bengaluru	32	33	9	12	2	5	<b>93</b>
2	Veterinary College, Bidar	8	25	6	20	2	1	<b>62</b>
3	Veterinary College, Shivamogga	14	15	12	3	2	1	<b>47</b>
4	Veterinary College, Hassan	10	41	17	5	1	2	<b>76</b>
5	Veterinary College, Gadag	12	14	5	-	2	1	<b>34</b>
6	Dairy Science College, Bengaluru	15	13	7	15	5	6	<b>61</b>
7	Dairy Science College, Kalaburagi	1	1	-	-	-	-	<b>2</b>
8	College of Fisheries, Mangaluru	9	16	19	7	5	2	<b>58</b>
9	IAH and VB, Bengaluru	2	39	7	-	-	-	<b>48</b>
10	IWVR, Doddaluvara-Kodagu	1	-	-	-	-	-	<b>1</b>
11	LRIC, Hallikhed-Bidar	1	1	1	-	-	-	<b>3</b>
12	LRIC, Nagamangala-Mandya	-	-	-	-	-	-	<b>-</b>
13	LRIC, Konehalli-Tumakuru	-	-	-	1	-	-	<b>1</b>
14	BRIC, Dornahalli-Yadgir	-	8	-	-	-	-	<b>8</b>
15	CRIC, Timmapur-Bagalkot	3	-	-	-	-	1	<b>4</b>
16	FRIC, Hebbal-Bengaluru	5	-	-	-	-	-	<b>5</b>
17	FRIC, Hesaraghatta-Bengaluru	2	1	2	-	-	-	<b>5</b>
18	FRIC, Bhutnal-Vijayapura	-	-	-	-	-	-	<b>-</b>
19	FRIC, Ankola-Uttar Kannada	-	-	-	6	-	-	<b>6</b>
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	-	24	-	-	-	-	<b>24</b>
21	AHP, Konehalli-Tumakuru	-	-	-	-	-	-	<b>-</b>
22	AHP, Kunnur-Haveri	1	3	1	-	-	-	<b>5</b>
23	AHP, Koravangala-Hassan	-	-	-	-	-	-	<b>-</b>
24	AHP, Bargi-Chamarajnar	-	-	-	-	-	-	<b>-</b>
25	AHP, Dornahalli-Yadgir	-	-	-	-	-	-	<b>-</b>
<b>Total</b>			<b>234</b>	<b>86</b>	<b>69</b>	<b>19</b>	<b>19</b>	<b>543</b>

#### 4. Radio Talk/TV Programmes

##### a) Radio Talks

#	Date	Scientist	Topic	AIR Station
<b>VETERINARY COLLEGE, BENGALURU</b>				
1	12.10.2022	Suma, N.	Feeding of milch animals	AIR, Bengaluru
2	12.09.2022	Sharada, R.	Control of Animal diseases	AIR, Bengaluru
3	14.09.2022	G.S. Mamatha	Parasitic diseases of animals and control	AIR, Bengaluru
<b>VETERINARY COLLEGE, SHIVAMOGGA</b>				
1	21.09.2022	Gopapal G.T	Animal Welfare related Acts and provisions	AIR, Bhadravathi
2	21.09.2022	Harisha M.	Importance of training in Sheep and Goat	AIR, Bhadravathi
3	12.01.2023	Harisha M	Profitable Dairy farming	AIR, Bhadravathi
4	02.11.2022	Umesh B U	Egg poultry farming	AIR, Bhadravathi
5	05.11.2022	Satheesha G M	Scientific pig farming	AIR, Bhadravathi
6	08.11.2022	Satheesha G M	Profitable sheep farming	AIR, Bhadravathi
7	12.11.2022	Venkatesha MM	Foddercrops and their management	AIR, Bhadravathi
8	January, 2023	R. Jayashree	Conservation of Indigenous cattle breeds	AIR, Bhadravathi
9	January, 2023	R. Jayashree	Malnad Gidda cattle rearing	AIR, Bhadravathi
10	14.12.2022	Malathi, V	Management of poultry birds in winter	AIR, Bhadravathi
11	February, 2023	Veeranna Gowda BG	Importance of Backyard chicken farming	AIR, Bhadravathi
12	22.10.2022	Shambulingappa BE	Lumpy Skin Disease in Cattle	AIR, Bhadravathi
13	12.01.2023	Shambulingappa BE	Avian Flu in Poultry	AIR, Bhadravathi
14	February, 2023	Shambulingappa BE	Control of LSD in Animals	AIR, Bhadravathi
15	12.01.2023	Pradeep BS	Internal parasites and their control in dairy animals	AIR, Bhadravathi
16	12.01.2023	Pradeep BS	Internal parasites and their control in dairy animals	AIR, Bhadravathi
17	January, 2023	Maltesh DS	Diseases of cattle	AIR, Bhadravathi
<b>VETERINARY COLLEGE, HASSAN</b>				
1	07.04.2022	Jaishankar N	Fodder production and feeding of livestock	AIR, Hassan
2	14.04.2022	Ramesh. D	Effect of global warming on animal production	AIR, Hassan

3	14.04.2022	Hemanth Gowda K.	Sustainable livestock production under climate change	AIR, Hassan
4	20.04.2022	Devaraja Naika.H	Interview on Production of Quality Milk	AIR, Hassan
5	28.04.2022	Shivakumar, V and Nethra, R	Treatment for Ephimeral Fever in livestock	AIR, Hassan
6	30.04.2022	Girish B.C.	World Veterinary Day - 2022	AIR, Hassan
7	05.05.2022	M.C. Shivakuamar	Backyard Poultry Rearing	AIR, Hassan
8	12.05.2022	Ravikumar.B.P	Reproductive Problems and its treatment in livestock	AIR, Hassan
9	13.05.2022	Vinuthan M.K.	Effect of global warming on animal production	AIR, Hassan
10	19.05.2022	Nagappa Karabasanavar	Interview on sanitation of cribs	AIR, Hassan
11	21.05.2022	Ravikumar P	Livestock Diseases: Prevention & Control measures	AIR, Hassan
12	26.05.2022	Naveen Kumar G S	Importance of Desi Breeds	AIR, Hassan
13	02.06.2022	Chethan K P	Importance of Low Fat / SNF syndrome in Milk	AIR, Hassan
14	09.06.2022	V.Jagadeeswary & Sindhu M G	Lumpy Skin Disease – Radio Skit	AIR, Hassan
15	23.06.2022	Ravikumar.C	Pesticide poisoning and its control in livestock	AIR, Hassan
16	23.06.2022	Girish B.C.	Immune system in Livestock	AIR, Hassan
17	30.06.2022	M. Veena	Herbal Tick Control In Cattle	AIR, Hassan
18	30.06.2022	Shankare Gowda, A.J.	Januvaarugalli Nene	AIR, Hassan
19	14.07.2022	Guruprasad, R	Management of Sheep and Goats in summer season	AIR, Hassan
20	21.07.2022	Chetan Kumar, G K	Blue tongue in sheep	AIR, Hassan
21	04.08.2022	Ravikumar P	Traditional Medicine Practices in Livestock Management	AIR, Hassan
22	18.08.2022	V.Jagadeeswary & Sindhu M G	Subclinical Mastitis – Radio Skit	AIR, Hassan
23	08.09.2022	Hemanth Gowda K.	Hormones in animal products – Myth	AIR, Hassan
24	15.09.2022	Sheela. P & Sobha Rani .M	PPR in Sheep	AIR, Hassan
25	22.09.2022	V.Jagadeeswary	Milk Fever – Radio Skit	AIR, Hassan
26	29.09.2022	Babu M	Management of Pregnant Cows	AIR, Hassan
27	06.10.2022	Satheesha S.P.	Tick borne diseases in domestic animals and their management	AIR, Hassan
28	13.10.2022	M.C.Shivakumar	Importance of Egg on World Egg day	AIR, Hassan
29	13.10.2022	Shilpa V.T.	Control of FMD in Livestock	AIR, Hassan
30	17.10.2022	Girish B.C.	Lumpy skin disease in cattle	AIR, Hassan
31	20.10.2022	Satheesha S.P.	Enterotoxaemia and Bluetongue in sheep and goats	AIR, Hassan
32	27.10.2022	Naveen kumar G S	Preservation of Native breeds	AIR, Hassan
33	10.11.2022	Guruprasad, R	Scientific Shelter for Livestock	AIR, Hassan
34	17.11.2022	M.C.Shivakuamar	Management of Chicks	AIR, Hassan
35	24.11.2022	Devaraja Naika.H	Discussion on National Milk Day 2022	AIR, Hassan

36	24.11.2022	B R Balappanavar & Priyanka M	Treatment of Fractures	AIR, Hassan
37	26.11.2022	Shivakumar M.C. Nagappa, K.	Discussion on national milk day	AIR, Hassan
38	1.12.2022	V.Jagadeeswary	Farmers Producers Organization	AIR, Hassan
39	05.01.2023	Girish B.C.	Admission to Veterinary University	AIR, Hassan
40	15.01.2023	Sobha Rani .M	Swine Fever – Prevention & Control	
41	19.01.2023	Sheela. P	A talk on importance of vaccination in animals	AIR, Hassan
42	27.01.2023	Rakesh R L	Fly Menace in Livestock and its control	AIR, Hassan
43	02.02.2023	Vinuthan M.K.	Beneficial effects of Donkey milk and its importance	AIR, Hassan
44	09.02. 2023	Ramesh. D	Production disorders and its effect on livestock	AIR, Hassan
45	21.02.2023	Chethan K P	Green Fodder Production by Hydroponic Technique	AIR, Hassan
46	27.02.2023	Satheesha S.P.	Importance of biosecurity in animal farming	AIR, Hassan
47	02.03.2023	Ashwini A and V.Jagadeeswary	Empowerment of women folk through livestock - Radio Skit	AIR, Hassan
48	04.03.2023	Jaishankar N	Scientific semi-intensive shee farming	AIR, Hassan
49	06.03.2023	Suresh H. N	Stall feeding of sheep	AIR, Hassan
50	08.03.2023	Ravikumar.C	Toxic Plant poisoning in livestock & its control	AIR, Hassan
51	09.03.2023	Ravikumar P	Cancerous conditions in Livestock	AIR, Hassan
52	16.03.2023	Girish B.C.	Diseases of the skin and remedies in livestock	AIR, Hassan
53	17.03.2023	Roopa T.K	Important fodder trees for sheep farming	AIR, Hassan
54	23.03.2023	Shilpa V.T.	Bacterial diseases of sheep and goat and its control measures	AIR, Hassan
55	30.03.2023	M. Veena	Disease caused by haemoprotozoans in crossbreds and its control	AIR, Hassan

**VETERINARY COLLEGE, GADAG**

1	13.10.2022	B.M.Veeregowda	Prevention and control of LSD	AIR, Bengaluru
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**DAIRY SCIENCE COLLEGE, KALABURAGI**

1	27.10.2022	Manjunatha H	Importance of Micro Organisms in Clean Milk Production	AIR, Kalaburagi
2	29.10.2022	Basavabharati,	Fermented Milk products	AIR, Kalaburagi
3	19.11.2022	Shankarlingayya V S.	Importance of Paneer on health development	AIR, Kalaburagi
4	24.11.2022	Priyanka K.	Role of Milk Nutrients in Personality Development	AIR, Kalaburagi
5	02.01.2023	Madhusudan	Mastitis and their control measures	AIR, Kalaburagi
6	26.12.2022	Mallinath Hemadi.	Integrated farming system for doubling the farmers income	AIR, Kalaburagi

<b>COLLEGE OF FISHERIES, MANGALURU</b>				
1	17.11.2022	Kumar Naik A S	Modern techniques in Inland Fisheries Development	AIR, Mangaluru
<b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b>				
1	08.12.2022	Sumathi B.R.	Diseases of Sheep and Goats, prevention and control	AIR, Krishi Ranga
<b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KUDIGE</b>				
1	24.10.2022	L. Ranganath	Human-Animal Conflict	Madikeri
2	20.12.2022	L. Ranganath	Role of Veterinarian in Wildlife	Madikeri
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, DORNAHALLI-YADGIR</b>				
1	01.10.2022	Shesha Rao	LSD in Animals	AIR, Kalaburagi
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARGHATTA</b>				
1	13.08.2022	Ravindragouda Patil	Blue Revolution and its Importance	AIR, Bengaluru
2	12.09.2022	Ravindragouda Patil	Bio-Floc system of Fish rearing	AIR, Bengaluru
<b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>				
1	13.02.2023	Vijayakumar, S.	PMMSY	AIR, Vijayapur
<b>KRISHI VIGYAN KENDRA, DAKSHINA KANNADA, MANGALURU (KVK-DK)</b>				
1	11.11.2022	T.J. Ramesha	KVK Activities	AIR, Mangaluru
2	22.12.2022	Mallikarjuna L.	Importance of soil testing and method of soil sampling	AIR, Mangaluru
3	14.12.2022	Rashmi R.	ICM in Udupi Jasmine	Akashavani, Mangaluru
4	17.12.2022	Kedarnath	Integrated leaves spot management of Arecanut	AIR, Mangaluru
5	23.12.2022	Chethan N	Water quality Management in Fisheries	AIR, Mangaluru
6	09.03.2023	Mallikarjuna L.	INM in Agriculture for Soil fertility	AIR, Mangaluru



## b) TV Programmes

#	Date	Scientist	Topic	Station
<b>VETERINARY COLLEGE, BENGALURU</b>				
1	13.12.2022	Mahadevappa, D. Gouri	Fodder conservation and storage	DD Chandana Bengaluru
2	06.12.2022	Lathamani, VS	Jaanuvarugalalli kalubayi roga nirvahane	DD, Chandana
3	11.08.2022	Leena, G.	Live phone-in programme on "Zoonotic Diseases - Prevention & Control"	Mannina Makkalu (Doordarshan, DD, Bengaluru)
<b>VETERINARY COLLEGE, GADAG</b>				
1	06.10.2022	B.M. Veeregowda	Prevention and control of LSD	Bengaluru
<b>INSTITUTE OF ANIMAL HEALTH AND VETERINARY BIOLOGICALS, BENGALURU</b>				
1	11.02.2023	Ganesh Hegde RRO, ADDL&IC, Sirsi	Lumpy skin disease	Farm TV- (OTT app)
2	12.02.2023	Ganesh Hegde RRO, ADDL&IC, Sirsi	Ethno veterinary practices for farm animals	Farm TV- (OTT app)
<b>CANINE RESEARCH AND INFORMATION CENTER, TIMMAPUR-BAGALKOT</b>				
1	August, 2022	Sushanth Handage	Mudhol Hound dog rearing & Handed Over to SPG	TV 9 Kannada
2	March, 2023	Sushanth Handage	Mudhol Hound dog rearing	The Week
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>				
1	15.12.2022	K.B. Rajanna	Mannina Makkalu-Live Phone in Programme: Topic: New Techniques in Fisheries	Prasar Bharati-Doordarshan Bengaluru (DDK)
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>				
1	09.03.2023	Manjappa, N.	Fisheries in agriculture pond	DD Chandana
<b>KRISHI VIGYAN KENDRA-DAKSHINA KANNADA, MANGALURU (KVK-DK)</b>				
1	30.04.2022	Rashmi R.	District Level Workshop on Scientific Coconut Cultivation Technologies	Namma Kudla
2	04.05.2022	Mallikarjuna L	Organic Farming	Live TV programme 6.00 PM to 7.00 PM Re-telecast on
3	25.05.2022	Chethan N.	Inland fish culture success stories live chat	Namma Kudla
4	01.06.2022	Chethan N.	Inland fish culture success stories live chat	Namma Kudla
5	19.01.2023	Rashmi R.	Tengina mara hattuvudu gottidare tingalige laksha laksha sampadisabahudu	ETV Bharat
6	19.01.2023	Rashmi R.	KVK ge banda nantra swa-udyoga madali dairy saku	Vartabharati
7	19.01.2023	Rashmi R.	Sulabadalli tengina mara hattalu kudla dalli tarabeti	Public next
8	07.02.2023	Kedarnath	ICM in arecanut and Mango	Abbakka TV
9	15.03.2023	Mallikarjuna L	Krishi Khushi – Suduttide Krshi Sampattu	Namma Kudla 24x7

## ABSTRACT OF RADIO TALKS AND TV PROGRAMMES DURING 2022-23

#	College/Institute	Radio Talks	TV Programmes	Total
1	Veterinary College, Bengaluru	3	3	6
2	Veterinary College, Bidar	-	-	-
3	Veterinary College, Shivamogga	17	-	17
4	Veterinary College, Hassan	55	-	55
5	Veterinary College, Gadag	1	1	2
6	Dairy Science College, Bengaluru	-	-	-
7	Dairy Science College, Kalaburagi	6	-	6
8	College of Fisheries, Mangaluru	1	-	1
9	IAH&VB, Bengaluru	1	2	3
10	IWVR, Doddaluvara-Kudige	1	-	1
11	LRIC, Hallikhed-Bidar	-	-	-
12	LRIC, Nagamangala-Mandya	-	-	-
13	LRIC, Konehalli-Tumakuru	-	-	-
14	BRIC, Dornahalli-Yadgir	1	-	1
15	CRIC, Timmapur-Bagalkot	-	2	2
16	FRIC, Hebbal-Bengaluru	-	1	1
17	FRIC, Hesaraghatta-Bengaluru	2	1	3
18	FRIC, Bhutnal-Vijayapura	1	-	1
19	FRIC, Ankola-Uttar Kannada	-	-	-
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	6	9	15
21	AHP, Konehalli-Tumakuru	-	-	-
22	AHP, Kunnur-Haveri	-	-	-
23	AHP, Koravangala-Hassan	-	-	-
24	AHP, Bargi-Chamarajnagar	-	-	-
25	AHP, Dornahalli-Yadgir	-	-	-
<b>Total</b>		<b>95</b>	<b>19</b>	<b>114</b>

## 5. Animal Health Camps

#	Name of the College/Institute	No. of Animal Health Camps	No. of cases treated/advised
1	Veterinary College, Bengaluru	18	756
2	Veterinary College, Bidar	5	215
3	Veterinary College, Shivamogga	33	1632
4	Veterinary College, Hassan	22	1727
5	Veterinary College, Gadag	7	1406
6	Dairy Science College, Bengaluru	-	-
7	Dairy Science College, Kalaburagi	-	-
8	College of Fisheries, Mangaluru	-	-
9	IAH&VB, Bengaluru	-	-
10	IWVR, Doddaluvara-Kodagu	2	196
11	LRIC, Hallikhed-Bidar	1	300
12	LRIC, Nagamangala-Mandya	12	2018 sheep (Deworming) 3108 (Vaccination) 182 (Treatment)
13	LRIC, Konehalli-Tumakuru	-	-
14	BRIC, Dornahalli-Yadgir	-	-
15	CRIC, Timmapur-Bagalkot	2	45
16	FRIC, Hebbal-Bengaluru	-	-
17	FRIC, Hesaraghatta-Bengaluru	-	-
18	FRIC, Bhutnal-Vijayapura	-	-
19	FRIC, Ankola-Uttar Kannada	-	-
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	2	75
21	AHP, Konehalli-Tumakuru	-	-
22	AHP, Kunnur-Haveri	-	-
23	AHP, Koravangala-Hassan	-	-
24	AHP, Bargi-Chamarajnagar	2	10
25	AHP, Dornahalli-Yadgir	-	-
<b>Total</b>		<b>106</b>	<b>11670</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	3	4
2	Veterinary College, Bidar	4	1
3	Veterinary College, Shivamogga	49	16
4	Veterinary College, Hassan	15	2
5	Veterinary College, Gadag	9	2
6	Dairy Science College, Bengaluru	15	1
7	Dairy Science College, Kalaburagi	-	-
8	College of Fisheries, Mangaluru	13	5
9	IAHandVB, Bengaluru	-	-
10	IWVR, Doddaluvara-Kodagu	1	1
11	LRIC, Hallikhed-Bidar	-	-
12	LRIC, Nagamangala-Mandya	32	-
13	LRIC, Konehalli-Tumakuru	-	-
14	BRIC, Dornalli-Yadgir	7	-
15	CRIC, Timmapur-Bagalkot	7	2
16	FRIC, Hebbal-Bengaluru	-	3
17	FRIC, Hesaraghatta-Bengaluru	-	1
18	FRIC, Bhutnal-Vijayapura	2	-
19	FRIC, Ankola-Uttar Kannada	-	-
20	Krishi Vigyan Kendra-Dakshina Kannada, Mangaluru	51	6
21	AHP, Konehalli-Tumakuru	2	-
22	AHP, Kunnur-Haveri	-	-
23	AHP, Koravangala-Hassan	-	-
24	AHP, Bargi-Chamarajnar	-	-
25	AHP, Dornalli-Yadgir	-	-
<b>Total</b>		<b>210</b>	<b>44</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	7000
	Artificial insemination in cows and dogs, diagnosis and treatment of uterine infections, assisted deliveries in dystocia, genital surgeries including caesarean section, pregnancy diagnosis, ultrasonography, castration determination of breeding dates in the livestock and pets, determination of breeding dates for the pets etc.	12477
	Treatment, Diagnostics	
	Total number of cases (Small and Large) treated	15102
	Major operations performed	591
	Minor operations performed	128
	OPD cases (Small and Large)	12484
	Radiographs taken	1876
	<b>Total</b>	<b>49658</b>
Veterinary College, Bidar	Treatment, Vaccination and Deworming	8629
	Cattle:692, Buffalo:65, Canine:935, Feline:52, Ovine:54, Caprine: 867, Avians:27, Equines:05, Others:28	2730
	VMD: 7717, VGO: 1485, VSR: 2964, APMC : 1151	13317
	<b>Total</b>	<b>24676</b>
Veterinary College, Shivamogga	Judging of Cattle in Animal Health camp and Cattle Show during NSS Camp 04.04.2022 to 10.04.2022 at Veerannana Benavalli, Shivamogga Taluk on 07.04.2022	1
	Judging of Cattle in Animal health Camp organized by Shivamogga Smart city on 27.09.2022	1
	Judging of Cattle at Animal Health camp, Kaginele Village, Shikaripura Tk, Dept.. of AH&VS, Shimoga 20.12.2022	1
	Consultancy Services(UAHS Krishimmela)	25
	12	12
	Animals treated at Medicine unit, Veterinary Clinical Complex (VCC) of Veterinary College, Shivamogga from 01 <sup>st</sup> April 2022 to 31 <sup>st</sup> March 2023	5086
	Animals treated at Medicine unit, from 01 <sup>st</sup> April 22 to 31 <sup>st</sup> March 2023	5086

	Animals treated at Gynaecology unit, from 01st April 22 to 31st March 2023	801
	Animals treated at Surgery unit, from 01st April 22 to 31st March 2023	1689
	Ambulatory clinics (Konagavalli) (VMD;182 : VGO: 94 VSR: 41)	317
	Treatment of cattle for Infertility, repeat breeding, anoestrus ,Faecal examination,Haematological analysis, Feed analysis suggestions	35
	Dr Ravi Raidurg visited Tiger & Lion Safari, Shivamogga on 04.07.2022 to treat Sambar.	01
	Dr Ravi Raidurg inspected Bengaluru Turf Club (BTC) as “INSPECTOR” vide Rule 14 of Performing Animals Rules , 2001 on 05.11.2022. <i>(Nominated with effect from 15.10.2020) as “INSPECTOR” to Bengaluru Turf Club (BTC) vide Rule 14 of Performing Animals Rules , 2001)</i>	-
	Dr Ravi Raidurg visited Tiger & Lion Safari, Shivamogga on 02.01.2023 to treat Tigress SITA.	01
	Dr Ravi Raidurg visited ED Office, Tiger & Lion Safari, Shivamogga 08.03.2023 to participate in meeting.	-
	Surgery	1746
	<b>Total</b>	<b>14802</b>
Veterinary College, Hassan	C section -10 OHE - 46 Castration -103 Artificial Insemination -246 Dystokia -67 Treatment for affections of reproduction - 293	765
	Major surgeries-531 Minor surgeries-22 OPD Cases – 1632	2185
	Clinical services (April 2022 to March 2023)	5112
	Clinical services (April 2022 to March 2023)	9922
	<b>Total</b>	<b>17984</b>
Veterinary College, Gadag	Large animal and small animal health care management, prophylaxis, vaccination, breeding and reproduction, surgical intervention, sample collection and disease investigation.	7507
	<b>Total</b>	<b>7507</b>



IAH&VB, Bengaluru	Disease investigation (including STD screening) carried out	43
	<b>Total</b>	<b>43</b>
IWVR-Doddaluvara-Kodagu	Wildlife care, Cropping pattern, Animal diseases	136
	<b>Total</b>	<b>136</b>
LRIC, Nagamangala-Mandya	Animal Health Care	218
	<b>Total</b>	<b>218</b>
CRIC, Timmapur-Bagalkot	Consultancy Service to local Mudhol hound dogs.	25
	<b>Total</b>	<b>25</b>
FRIC, Bhutnal-Vijayapura	Diagnosis of moribund fish and soil + Water analysis in and around Vijayapur District	18
	<b>Total</b>	<b>18</b>
AHP, Konehalli-Tumkur	Pig castrations	2
	Treated Ailing Animals of the Surrounding villages of the Institution	60
	AHD students have assisted in the treatment of ailing animals in different veterinary hospitals under WEx course	650
	No. of Inseminations done by AHD Students in different Hospitals	120
	No. of castrations done by AHD Students in different Hospitals	150
	No. of Animals dewormed by AHD Students in different villages of Tiptur	500
	FMD Vaccination done by AHD Students in different Villages of Tiptur Taluk	600
	<b>Total</b>	<b>2082</b>
AHP, Bargi-Chamarajanagara	Treatment of LSD cases, Fever, cyanide and OPC poisoning	6
	<b>Total</b>	<b>6</b>
	<b>Grand Total</b>	<b>117155</b>

## 8. Diagnostic Services Provided

#	Institution	Diagnostic Services provided	Total Numbers
1	Veterinary College, Bengaluru	Vetero-legal consultancies for Dept of Police and forest departments	40
		Haematology & blood biochemistry	9000
		Pregnancy diagnosis, Ultrasonography, Vaginal cytology	4057
		Blood samples tested (large and small animals)	5562
		Ultra Sound scanning subjected	480
		Electrocardiography	1342
		Antibiotic Sensitivity Testing	32
		Fecal Sample testing (Small & Large animals)	260
		Urine routine examination (Small & Large animals)	580
		ABST & Culture	40
		Screening for Brucellosis	15 serum
		RFFIT for Antirabies vaccinal antibody titre (dogs and cats)	423 serum samples
		DFA & LFA for Rabies diagnosis (Dog, cow, Buffalo, cat, Goat, Jackal, Sheep, Lion, Mice, Monkey, Rabbit, Rat. Squirrel and wolf)	314 brain samples. 162 dog brain samples
		Blood Samples	192
		Faecal Samples	137
		Skin Scrapings	3
		Canine necropsy	48
		Bovine necropsy	31
		Felines necropsy	13
		Ovine & Caprine necropsy	45
		Piglets necropsy	40
		Laboratory Animals necropsy/other	08
		Poultry necropsy	510
		Rabies diagnosis	14
Exfoliative cytology	39		
Radiography and C-Arm imaging X-ray	Around 1876 small and large animals		
<b>Total</b>	<b>25263</b>		
2	Veterinary College, Bidar	Radiographs	230
		Ultrasonography	171
		Ophthalmoscope	30
		Post-mortem	200
		ECG	
		Animal Blood sample analysis	262
		Serum sample analysis	5
		Animal Faecal sample	705
		skin scrapings	155
		Microbial & Anti microbial assays	26

		Histopathology/ Cytology	103
		Urine analysis	2
		Ruminal fluid	337
		Milk / meat samples	13
		Pus Samples	3
		worms for identification	3
		Pregnancy Diagnosis	271
		Any Other services Pus sample, soil sample	27
		<b>Total</b>	<b>2543</b>
3	Veterinary College, Shivamogga	Bovine	2
		Ovine & Caprine	16
		Avian	57
		Swine	6
		Canine	1
		Rabbit	7
		Isolation and ABST	41
		Isolation (PM Samples)	52
		Samples analyzed	29
		Laboratory tests: Number of clinical samples examined in the central clinical laboratory of TVCC during the period from 01-04-2022 to 31-03-2023	3567
		Diagnostic tools: a) Ultrasonography scanning: b) Electrocardiogram (ECG): 41	118
		Qualitative test for detection of heavymetals, cyanide and nitrate in samples given by the veterinarian	4
		Laboratory tests: Number of clinical samples examined in the central clinical laboratory of TVCC during the period from 01-04-2022 to 31-03-2023	3567
		Diagnostic tools: a) Ultrasonography scanning: b) Electrocardiogram (ECG):	333
		<b>Total</b>	<b>7800</b>
4	Veterinary College, Hassan	Cyanide, Nitrate, Zinc phosphide and heavy metal toxicity	12
		Blood Samples	1499
		Faecal + Skin scrapping+Litter material	121
		External and internal parasites	8
		- Isolation, Identification, ABST	127
		- Isolation, Identification, ABST	30

		Disease investigations – 8 Screening of Samples by Rapid Kits - 10 Post mortem examinations: Cattle – 16, Sheep – 65, Goat – 45, Dog-4, Cat-1, Guinea pig – 7, Pig – 11, Rabbit – 4, Leopard – 2, Fish -1, Elephant – 1 and poultry –867. Analysis of clinical samples: Histopathology – 99, Cytology – 131	1272
		PD – 256 VEC - 114	370
		Radiography-952 Ultrasonography-86 C-arm- 112 Endoscopy-8 Ophthalmoscopy/phaco-00 Infra Red physiotherapy-56 US physiotherapy-6	1214
		Blood sample- 1993 Serum samples – 1007 Faecal sample- 329 ECG - 168 Urine sample- 35 Milk sample- 19 Rumen fluid- 109 Skin scraping- 119	3779
		Serum samples – 1007 Faecal sample- 329 Blood sample- 1993 Urine sample- 35 Milk sample- 19 Rumen fluid- 109 Skin scraping- 119 Others - 554	4318
		<b>Total</b>	<b>12750</b>
5	Veterinary College, Gadag	Water sample testing for chemical and Microbiological quality.	6
		Screening for Brucellosis for Diagnostic Entrepreneurship group of Internship students of Veterinary college, Gadag.	12
		Anti Microbial Sensitivity Test for Mastitis.	2
		Qualitative Diagnostic tests done for presence of heavy metals, nitrate, cyanide in suspected samples received from Clinics	10
		Pregnancy diagnosis, Exfoliative cytolog	135
		Feecal, Blood sample and skin scraping examination Disease diagnosis Preventive measures	213

		Necropsy (Domestic and wild animals)	154
		Clinical samples (206 samples as lab entrepreneurial activity for Interns)	215
		Disease Investigation	2
		<b>Total</b>	<b>371</b>
		Histopathology	200
		Blood examination, faecal sample evaluation, skin scraping evaluation, vaginal smear evaluation, rumen liquor evaluation, milk sample evaluation etc.,	2351
		<b>Total</b>	<b>3671</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	1449 water +57 shrimp +28 fish
		Water quality and algal blooms	6
		<b>Total</b>	<b>1534</b>
7	IAH&VB, Bengaluru	CADDL/VFL	44
		ADDL & IC, Bagalkote	3260
		ADDL & IC, Belgavi	13765
		ADDL & IC, Bellary	9250
		ADDL & IC, Bidar	2606
		ADDL & IC, Davangere	7380
		ADDL & IC, Gulbarga	3334
		ADDL & IC, Kolar	4886
		ADDL & IC, Mangalore	3317
		ADDL & IC, Mysore	18390
		ADDL & IC, Shvimga	3097
		ADDL & IC, Sira	3303
		ADDL & IC, Sirsi	2504
		WADDL, Bannerghatta	3672
		Diagnostic Bacteriology & Mycology	3828
		Diagnostic Virology	30380
		Diagnostic Parasitology	1644
		Diagnostic Pathology	1379
		Diagnostic Biochemistry & Toxicology	1190
		Diagnostic Sero-epidemiology	15741
		<b>Total</b>	<b>132970</b>
8	IWVR, Doddaluvara-Kodagu	Faecal, Blood and Urine sample analysis	142
		<b>Total</b>	<b>142</b>
10	FRIC, Hebbal-Bengaluru	Fish death / Mass mortality of snails / Eutrophication of the Lakes and also to know the Heavy Metal level	-
		<b>Total</b>	<b>-</b>

FRIC, Ankola-Uttar Kannada	Water Temperature, pH, Sanility, Alkalinity and Sediment Temperature and pH	21
	<b>Total</b>	<b>21</b>
Krishi Vigyan Kendra- Dakshina Kannada, Mangaluru	Diagnostic/Problematic plots Visits	91
	Scientist visits to farmers fields	59
	Soil Sample	133
	Water Sample	35
	<b>Total</b>	<b>318</b>
AHP, Konehalli- Tumkuru	Treatment given to the Animals of LRIC (A), Konehalli.	168
	Blood examination for hemoglobin estimation in Amrithmahal cattle and cross breed cows	15
	Milk Adulteration Test	5
	<b>Total</b>	<b>188</b>
AHP, Kunnur-Haveri	CBC, Serum biochemistry, Faecal sample analysis, Urine test, Blood smear, Skin scraping examination, CMT	200
	<b>Total</b>	<b>200</b>
AHP, Bargi- Chamarajnagar	Fever, Mastitis, Anostrus condition	5
	<b>Total</b>	<b>5</b>
<b>Grand Total</b>		<b>187405</b>



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

#	Department/Farm	Supplied item and Quantity		Remarks (Amount Collected in Rs.)
1	Veterinary College, Bengaluru	Milk		1112848.00
		Gunny bag		736.00
		Piglets		645490.00
		Sheep		127945.00
		Root slips		28950.00
		Feed		29700.00
		Grass		15000.00
		Day old Giriraja chicks	33351+566	736422.00
		Day old Swaradhara chicks	14352+234	346095.00
		Day old parent chicks	660+116	1280000.00
		Day old local chicks	45917+798	1147925.00
		Hatching eggs	19315	280275.00
		Incubated eggs	956	20076.00
		Table eggs	2515	15090.00
		Broken eggs	675	2700.00
		Feed	115442 kgs	3652755.00
		Manure	16 kgs	2400.00
		Birds	1218 (3219.775 kgs)	527676.00
		Local Birds	272 (455.8 kgs)	122595.00
		Paddy husk	110 kgs	1190.00
		Gunny bags	70	182.00
5 <sup>th</sup> week day old chicks	2310	254100.00		
	<b>Total</b>	<b>10350150.00</b>		
2	Veterinary College, Bidar	Milk	269.80 Liters	7092.50
		Horticulture Produce (Mango and Cashew)	-	55500.00
		<b>Total</b>		<b>62592.50</b>
3	Veterinary College, Shivamogga	Sale of milk		549223.00
		Sale of sheep and goat		41100.00
		Sale of Piglets and Pig		59880.00
		Sale of birds		88510.00
		Sale of commercial eggs		244163.00
		Sale of fodder root slips		123560.00
		Sale of paddy		175560.00
		paddy straw (350 bales) (Utilized for dairy animals of LFC)		70000.00

		Fodder root slips- 3000 Nos.	Under RKVY (GMSMG) project	
		<b>Total</b>	<b>1351996.00</b>	
4	Veterinary College, Hassan	1250 chicks (4 weeks old)	For promotion of desi chick rearing to ST women farmers under ICAR-TSP project	
		20 kg fodder seeds 10,000 super napier rootslips 10,000 guinea grass rootslips	For scheduled tribe farmers during 10 days training programme on "Scientific Profitable sheep production" organized under ICAR-TSP grants	
		Swine (Piglets)	60	207300.00
		Milk (Lts)	5965	178950.00
		Poultry (eggs& live birds)	2250&1772	273390.00
		Fodder	550Kg	52630.00
		Seeds	24 Kg	
		Stem Cuttings	27700	
		Root slips	1000	
		Compounded feed	12788 Kg	485944.00
		Concentrates Fish	224.7 Kg	33705.00
			<b>Total</b>	<b>1231919.00</b>
5	Veterinary College, Gadag	MILK 1716 Ltrs	60063.00	
		Cattle Auction-31 no	312000.00	
		Sheep sale-08	52750.00	
		Pig sale-03	6300.00	
		<b>Total</b>	<b>431113.00</b>	
6	College of Fisheries, Mangaluru	Fish seed	1980	
		<b>Total</b>	-	
7	IAH&VB, Bengaluru	HS vaccine – 65,34,000	Supplied to Dept. of AH&VS, Government of Karnataka	
		ET vaccine - 3,21,88,000		
		BQ vaccine - 4,35,800		
		Anthrax vaccine - 5,91,200		
		Ranikhet Disease (R2b vaccine)- 51,01,000		
		Rabies Veterinary Vaccin e - 1,33,129 Doses		
		KFD Vaccine - 45,000 Doses		

		PPR Vaccine - 1,52,25,700	PPR vaccine was supplied to Govt of India under National Animal Disease Control Programme (NADCP)	
		Viral vaccine diluent - 1,92,00,000		
		Goat pox vaccine - 55,00,000	Supplied to Dept. of AH &VS, Government of Karnataka	
		CSF vaccine - 2,31,400		
		Bluetongue inactivated vaccine – 10,50,000		
		RBPT antigen - 1,87,500 doses		
		MRT antigen - 61,250 doses		
		Brucella Plain antigen - 5000 doses		
		Mycoplasma antigen - 925 doses		
		Fowl cholera vaccine 23,000 doses		
		Mycoplasma trivalent vaccine - 27,500 doses		
		<b>Total</b>		-
8	LRIC, Hallikhed, Bidar	Sale of milk		1479000.00
		Fodder seeds/root slips		
		Vermicompost		
		Farm yard manure		
		Cow urine		
		Sale of animals		
		Sale of earth worms		
		<b>Total</b>	<b>1479000.00</b>	
9	LRIC, Nagamangala, Mandya	50 Elite Breeding Mandya Rams ( Free distribution), 81 ram lambs sold	Under Mega Sheep Seed Project	
		126 Fodder Root slips	Supplied to needed farmers	
		<b>Total</b>	-	
10	BRIC, Doranahalli	Sale of COFS- 31	258.5KG	
		Sale of Milk	-	
		Sale of Hedge Lucerne	6 KG	
		<b>Total</b>	<b>737495.00</b>	
11	CRIC, Timmapur, Bagalkot	Mudhol hound pups 60	Mudhol Hound pups were sold to public and different Government departments	
		<b>Total</b>	-	

12	FRIC, Hebbal, Bengaluru	Supply of Cultivable fish seed	1,62,270 Nos.	Supplied to stakeholders/farmers in Bengaluru rural & urban, Kolar, Hassan, Madikeri, Chamarajanagara, Mandya, Ramanagar, Chickaballapur, Tumkur districts
		Supply of Ornamental fishes	37,921 Nos.	
		Sampled Analyzed	1001 Nos.	
		<b>Total</b>		-
13	FRIC, Hesaraghatta, Bengaluru	Cultivable Fish seed	6,05,450 Nos.	Supplied to stakeholders in Bengaluru rural & urban, Kolar, Hassan, Madikeri, Chamarajanagara, Mandya, Ramanagar, Chickaballapur, Bellary, Tumkur districts
		Ornamental fish	1,877 Nos.	
		<b>Total</b>		
14	FRIC, Bhutnal, Vijayapura	Catla		103020.00
		Rohu		54,050.00
		Common Carp		152620.00
		Amur		23100.00
		Mrigal		15039.00
		Ornamental		550.00
		Other Misc. Receipts		6500.00
		<b>Total</b>		<b>354879.00</b>
15	FRIC, Ankola, Uttar Kannada	Etroplus fish seeds: Nos.1410		-
		Ornamental fishes : Nos.805		-
		<b>Total</b>		-
16	Krishi Vigyan Kendra, Dakshina Kannada, Mangaluru	MO4 Paddy Seeds	786 kg.	-
		Bhendi Seeds	300 gm.	-
		Fodder cuttings-CO-3	400 No.	-
		Papaya Seedlings	50 No.	-
		Earthworms-Eudrilus engeniae	340 gm.	-
		Greengram seeds	37 Kg.	-
		Vermicompost	1577 Kg.	-
		Green manure seeds-Sunhemp	9 Kg.	-

		Green manure seeds- Dhaincha	3 Kg.	-
		Fish fingerlings facilitate to the farmers	12000 No.	-
		Swarnadhar poultry Birds	1746 No.	-
		<b>Others:</b>		-
		Milk Production	12796 Ltr.	-
		FYM	89 Cft.	-
		Coconut	1129 No.	-
		Auction sale of Bulk Paddy (Sahyadri Panchamukhi paddy+MO4)	2060 Kg.	-
		<b>Total</b>		-
17	AHP, Konehalli, Tumakuru	Lucerne seed, hybrid Napier root slips, Susbenia and Moringa saplings CoFS 29 Seeds		25 beneficiaries were benefited
		<b>Total</b>		-
18	AHP, Koravangala, Hassan	Native (Poultry) eggs – 956 Broiler chicken – 434 Native chicken – 42 Milk – 5,523 <i>ltr</i> Maize – 9,277 <i>kg</i> Ragi straw – 1,750 <i>kg</i>		Under the Revolving Fund activities
		<b>Total</b>		-
	AHP, Dornahalli, Yadgir	Female Goat Kids	2	12000.00
		Sale of Nati Birds Eggs	-	1607.00
		Sale of Nati Birds	-	18175.00
		<b>Total</b>		<b>31782.00</b>
		<b>Grand Total</b>		<b>16030926.50</b>

## 10. Consultancy / Advisory Services

#	College / Institute	Total Number	Remarks
1	Veterinary College, Bengaluru	1728	Field visits and Advisory services by phone & in person with respect of various fields of Animal Husbandry / Consultancy service on feed and fodder production, processing and preservation for livestock and poultry, establishment of feed plants, feed formulation for livestock and poultry / On feeding, breeding and management of dairy cattle, pigs, sheep and goats, fodder production and preservation / Consultancy on fodder production, dairy farming, piggery farming, sheep and goat farming etc / Staffs of the Department are providing information farmers on Giriraja and Swarnadhara farming, chicks brooding, Feed formulation & vaccination / Dr. P. T. Ramesh, Dr. M. A. Kshama, Dr. Lathamani V. S. - Treating all animals in OPD of hospital and advising the animal owners regarding health management on all week days and on holiday duties / Poultry farmers visited the department for disease diagnosis and suggestion / Dairy farmers visited the department for disease diagnosis and suggestion / Pet owners visited the department for disease diagnosis and suggestion / Technical information regarding drug formulations and toxicological field cases / Dr. Leena G., visited Bangalore Urban district as Nodal Officer to Monitor 3 <sup>rd</sup> round of NADCP-FMD vaccination programme from 7.11.2022 / Visited various places in Bangalore Urban district on 1 <sup>st</sup> and 2 <sup>nd</sup> December, 2022 and monitored vaccination programme / Consultation with regard to surgical affections of pet animals/ domestic animals, field problems faced by farmers/ field Veterinarians in person, over Phone, email & SMS
2	Veterinary College, Bidar	173	Advised formers regarding feeding of birds, small and large ruminants feeding and preparation of concentrate feed / Telephonic and personal Consultancy / Information of Dairy Farming, Sheep Farming, Goat Farming, Fodder Production, fodder conservation and Vermicomposting / Disease investigations / Ext/ economics/ others / Over telephone
3	Veterinary College, Shivamogga	866	Poultry farming, hatchery management, broiler farming, layer farming, housing in cattle, clean milk production, pregnancy management in cattle, sheep breeding / , marketing of milk and poultry products / Pregnancy management in cattle, sheep breeding , marketing of milk and poultry products, silage making, dry fodder enrichment, dairy



			<p>farming / Piggery farming, lab animal housing, broiler farming, layer farming, housing in cattle, clean milk production, pregnancy management in cattle, breeds of livestock and poultry. Selection of animals / Fodder production, silage making, hay making, package of practices for cultivation of fodder crops, vermin compost, fodder trees , dry land agriculture, agroforestry. Silviculture / Value addition to meat / Information given on availability of Giriraja &amp; Desi birds at VCS, Value addition to milk &amp; meat etc / Over Phone and in person visits by farmers and general public specially to enquire regarding Malnad Gidda Animals / Information on Fodder varieties and fodder production / disease investigation and expert advice / Blood samples for haemo-parasites / Faecal sample for parasitic egg/ova / Skin scrapings / Arthropod parasites / Blood and faecal samples of Wild animals and birds / Consultancy for recurrent mastitis in cattle / Clinical pharmacology, Toxicology and chemotherapeutical aspects of drugs and therapy in relevant field cases / over phone</p>
4	Veterinary College, Hassan	839	<p>Advised overphone Doddakunche &amp; Magge villages on dairy animals management / Cyanide, Nitrate, Trichothecenes fungal feed toxicity , euphorium plant toxicity / Guiding farmers and Veterinarians / LRIC, Amrithmahal farm, Konehally on 20-10-2022 to screen against TB, Brucellosis &amp; para TB / Sakleshpura on 15-03-2023 to investigate the deaths in cattle / Samples positive for <i>C. chauvoeii</i> by culture and PM findings. Advised to undertake vaccination / Consultancy/Advisory Services to farmers visiting the department &amp; over phone calls / Personal visits by farmers or telephonic consultancies / Export Inspection Agency, Office Kochi and Sub-Office Bangalore, Govt. of India assessments / KPSC, Competitive examination evaluation,16.01.2023 / On campus and online consultancy services / Guidance to livestock farmers / Farmers and related entrepreneurs and students / Guidance to livestock farmers / Consultancy on Sheep, Goat, Dairy, Poultry and Piggery farming</p>
5	Veterinary College, Gadag	421	<p>Consultancy provided to farmers on various aspects of veterinary sciences, animal husbandry, planning for new animal husbandry ventures etc. / Consultation services were provided on prevention and control aspects of CSF and LSD / Advisory services provided for the field veterinarians regarding diagnosis and treatment of poisoning conditions</p>

6	Dairy Science College, Bengaluru	5	Expert Technical Advice for Project in AI and Game Theory Based Digital Agriculture supported, Funded by NABARD and Bharat Electronics Limited. (01.01.2023 – 31.12.2023) / Expert Technical Advice for the project, Crop Reallocation and Optimal Planning (CROP).
7	College of Fisheries, Mangaluru	300	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. / Information on Water quality, Fish farming and IFS given / Department staff “Inspected the newly constructed Mechanized fishing boats” and submitted the report to the Department of Fisheries, Government of Karnataka / The College of Fisheries is nominated as the nodal agency for implementation of “Multi Purpose Support Services (SAGAR MITRA)” programme by Government of Karnataka. It is envisaged to engage a total of 120 Sagar Mitra’s and deploy each Sagar Mitra in a coastal fishing village in Dakshina Kannada, Udupi and Uttara Kannada Districts for a period of nine months. To appoint Sagar Mitra’s on contractual basis, applications had been called four times in three daily news papers. Applications were scrutinized and interviews were conducted at Fisheries College, Mangaluru, Udupi and Karwar. At present 74 Sagar Mitra’s have been appointed on contractual basis, for remaining 46 Sagar Mitra’s the recruitment work is under progress
8	IAH&VB, Bengaluru	3	Dr. Raveendra Hegde - CMU Subcommittee member for evaluation of semen stations in the country. GOI, Min. of Fisheries Animal Husbandry & Dairying / Dr B M Chandranaik - 1. Member of the expert committee on Kyasanur Forest Disease Vaccine testing at Central Drug Laboratory, Kasuali, Himachal Pradesh 2. Member of the National Advisory Committee of Govt. of India’s DBT- STAR college program
9	IWVR, Doddaluvara, Kodagu	150	Advisory was provided in terms of healthcare and Management of Wild animals belonging to Dubare, Matthigodu Elephant Camps, Rajeev Gandhi National park and Mysore Zoo
10	LRIC, Hallikhed, Bidar	500	Advisory services on scientific animal husbandry and fodder production
11	LRIC, Nagamangala, Mandya	148	On an average 3-4 telephonic calls per day have been attended to give advice on different animal husbandry activities, majority of them were pertaining to the sheep rearing activities

12	LRIC, Konehalli, Tumakuru	-	-
13	BRIC, Dornalli, Yadgir	180	On fodder production and dairy and Disease aspect
14	CRIC, Timmapur, Bagalkot	200	Telephone advice to 200 people regarding Mudhol Hound Dog Rearing
15	FRIC, Hebbal, Bengaluru	680 (farmers)	Biofloc Technology / Fish Culture / Fish seed rearing / Ornamental fish production / Ornamental fish production / Aquaponics / Disease Management / Water Quality and feed Management
16	FRIC, Hesaraghatta, Bengaluru	430 (farmers)	Fish Culture / Fish seed rearing / Ornamental fish production / Duck cum fish culture / Poultry cum fish culture
17	FRIC, Bhutnal, Vijayapura	1125	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	42	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, Dakshina Kannada, Mangaluru	4735	Telephone consultation to farmer / Farm Advisory Services including farmer visit to KVK / News paper Coverage / Video Production/Film shows / SMS Messages / Group Discussion Meeting / Farmers Scientist Interaction / Exposure Visit
20	AHP, Konehalli, Tumkuru	70	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	19	Dairy farming and sheep & goat farming, Fodder crops
22	AHP, Koravangala, Hassan	25	Farmer's visit to campus and tele consultations
23	AHP, Bargi, Chamarajnar	5	Foot and Mouth Disease, Enrichment of feed And fodder, Lumpy skin disease. Anoestrus condition in cattle, Project plan for the opening of dairy farm and poultry diseases
24	AHP, Doranahalli, Yadgir	300	Regarding admission, fodder production & Sheep & goat rearing
<b>Total</b>		<b>12944</b>	

## 11. Activities on Village/Farm Adoption

### VETERINARY COLLEGE, SHIVAMOGGA

#### Number of Medicine Cases treated at Ambulatory Visits from 01-04-2022 to 31-03-2023:

	Cattle	Buffalo	Sheep	Goat	Dog	Cat	Pig	Horse	Poultry	Others	Total
Medicine cases	161	14	03	00	03	0	0	0	01	0	182

#### Number of Cases treated at Ambulatory Visits from 01-04-2022 to 31-03-2023: TWO

1	Case treated at adapted village Konagavalli village	317
2	One Health camp organized at Konagavalli village	26

### VETERINARY COLLEGE, HASSAN

#### Activities at Adopted Village:

Village Adoption programme officially launched – Kuppalli, Hassan (4.07.2022)

Scientific Cattle Management Training (4.07.2022)

As part of Azad Amrit Mahotsav a Animal Health & Deworming Camp was organised at Adopted village Kuppalli on 14-08-2022

Demonstration on Herbal Preparation on Tick Infestation (15.02.2023)

Field exposure visit to National Horticulture Fair, Bengaluru, funded by IIHR (22.02.2023)

Training program on Animal Based Organic Horticulture and Saplings & seeds distribution (07.03.2023)

Weekly twice Ambulatory services from Veterinary College are provided at the adopted village and till date 75 cases were treated.

Veterinary Parasitology department, till date has collected a total of 318 faecal samples from cattle, sheep, goat, buffaloes, dogs, cats and poultry to check for parasitic infections. Along with the faecal samples the data regarding the deworming schedule followed by them and anthelmintics used was also collected. The samples were screened for parasitic infections and were found to be positive for amphistome eggs, fasciola eggs, strongyle eggs and coccidian oocytes. Based on the parasitic infections diagnosed, appropriate anthelmintics were suggested.

Regular screening of samples for mastitis is being carried out by Microbiology department and accordingly farmers were addressed.

#### Activities at Adopted School – GHPS Harallali, Hassan :

Essay Competition on the “Importance of Milk” conducted on National Milk day (26.11.2022) and certificates and prizes were distributed to the children on National Milk Day.

Awareness Program on “Importance of Animal & Horticulture Produce in Child Nutrition” was carried out at Government Higher Primary school Harallali, Hassan (30.03.2023).

### 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.

**Har Ghar Tiranga Abhiyaan :** On 13-08-2022 in Sambhapur village of Gadag taluk door-to-door Thiranga Abhiyan was conducted by Veterinary College Gadag in collaboration with Milk Producers Co-operative Society in Sambhapur village. Awareness and motivation was given about this in the village by going door to door and hoisting the national flag. Tricolor national flags were distributed to the students and village citizens

**School adoption programme :** On the occasion of World Rabies Day an awareness programme on rabies was organized for school students and teachers of Government Primary School, Sambhapur. on 28th September, 2022.

#### FISHERIES RESEARCH AND INFORMATION CENTRE, HEBBAL-BENGALURU

Sl No.	Farmer and the Place	Date	Scientist involved	Remarks
1	Mr. Ilyas Shariff, Successful Farmer, Patel Doddi, Kanakapura, Ramanagar District. Mob:9632207440	24.06.22	Dr. K. B. Rajanna	Biofloc Farm: Visited the site and suitably suggested for pond preparation and C:N ratio calculation – Growing Red Tilapia

#### FISHERIES RESEARCH AND INFORMATION CENTRE, HESARAGHATTA

#	Farmer and the Place	Date	Scientist involved	Remarks
1	Anjanappa, Pavagad	23-12-2022	Dr. Manjappa	Visited to Biofloc pond unit
2	Mani, Pavagad	23-12-2022	Dr. Manjappa	Visited to Biofloc pond unit
3	Gangadhar, Pavagad	23-12-2022	Dr. Manjappa	Visited to Biofloc pond unit
4	Bangarappa, Pavagad	23-12-2022	Dr. Manjappa	Visited to ornamental unit

#### KRISHI VIGYAN KENDRA, DAKSHINA KANNAD-MANGALURU

##### a. On Farm Testing's organized (OFT's)

#	Title of the OFT	No. of Trials	Area (ha.)	Villages	Taluk
1	Effect of MgSO <sub>4</sub> on growth and yield of coastal paddy	5	2.5	Badaga Karanduru	Bettampady
2	Effect of Dolomite soil conditioner on Arecanut yield and soil acidity in coastal soils of Dakshina Kannada	10	2.0	Balanja	Bettampady
3	Assessment of Pruning time in Udupi Jasmine	05	01	Kanyana, Bantwal	Bantwal
4	Assessment of inflorescence die back & button shedding in arecanut	05	2.5	Balanja	Belthangady
5	Evaluation of growth performance of Murrels in coastal farm ponds	06	0.75	Kottaribettu, Amugraha, Panapila, Moodabidri	Moodabidri

## Front Line Demonstrations organized (FLDs)

#	Title of the FLD	No. of Demo.	Area (ha.)	Villages	Taluk
1	Demonstration of Sahyadri Panoramukhi red rice variety for flood prone area of Dakshina Kannada	10	04	Vagga	Bantwal
2	Demonstration of Sahyadri Kempumukthi red rice variety for lowlands in Dakshina Kannada	10	04	Kilenjaru	Mangaluru
3	Demonstration of KSNUAHS compost culture for compost preparation	25	-	Purlappady	Bantwal
4	Management of nut cracking and premature nut fall in areca nut	10	2	Kavu	Puttur
5	Potassium management in coastal paddy	10	2	Ujire	Belthangady
6	Demonstration of high yielding yard long bean variety Arka Mangala	10	0.8	Hosangady	Belthangady
7	Integrated crop management in Okra	10	0.8	Iddabettu, Sampige	Moodbidri
8	Demonstration of ridge gourd variety Arka Prasan	10	2	Hosangadi	Belthangady
9	Integrated disease management in paddy	10	4	Inhlampady	Puttur
10	Integrated management of spindle bug in arecanut	10	2	Barimaru & Vittla	Vittla
11	Integrated management of stem and root borer in cashew	10	2	Mundooru	Puttur
12	Demonstration of the use of probiotics to enhance SNF and milk yield	10	-	Pernude	Mangaluru
13	Demonstration of Small ruminant mineral mixture on production performance in goats in coastal region	5 (10 animals/ Demo)	-	Kajoor	Belthangady
14	Feed based carp culture in farm ponds to enhance production	3	0.3	Ujire, Nada & Belvayi	Belthangady & Mangaluru
15	Production improvement by GIFT tilapia culture	3	0.3	Doddathota, Aramboor & Moodbidri	Sullia & Mangaluru

## 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, BENGALURU</b>			
1	Shri Prabhu Chauhan Hon'ble Minister for Animal Husbandry and Fisheries, Govt of Karnataka	12.07.2022	Visited KVAFSU-CVA Rabies Diagnostic Laboratory, WOAH Reference Laboratory for Rabies, Department of Microbiology, Veterinary College, Hebbal, Bengaluru
2	Shri Upamanyu Basu, IAS Hon'ble Joint Secretary (LH), Dept. of Animal Husbandry and Dairying, Government of India.	17.08.2022	
3	Smt.Salma K. Fahim, IAS Hon'ble Principal Secretary, Dept. of Animal Husbandry and Fisheries, Govt. of Karnataka. Smt. Aswathi, IAS Commissioner, Dept. of Animal Husbandry and Fisheries, Govt. of Karnataka.	01.02.2023	
4	Dr. Darryn Knobel, BVSC, MSC, MRCVS, Ph.D. Director, Research Center for Conservation and Ecosystem Health, Professor of Epidemiology and Population Health, Ross University School of Veterinary Medicine, West Indies.	04.05.2022	
5	Dr. Andy Gibson, Director of Strategic Research, Mission Rabies, Goa	04.05.2022	
6	Dr.Roger Bovell, 56 Harcourt Drive, Reading RE65TJ	22.08.2022	
7	Dr.Arunasiri Iddamalgoda, Tsushima-cho, Gift City, Gifu – Ken, JAPAN	22.08.2022	
8	Dr. Baldev R Gulati, Director, ICAR-NIVEDI, Bengaluru	16.02.2023	
9	Six students Oregon state University studying in DVM programme	01.07.2022 to 20.07.2022	
<b>VETERINARY COLLEGE, BIDAR</b>			
1	His-Excellency Hon'ble Governor of Karnataka Shri. Thawar Chand Gehlot and Hon'ble Board Member Shri.Vasant Biradar	26.12.2022	Visit to department to know the activities
2	Dr. Vinod Bhatt Secretary, Veterinary Council of India, New Delhi and Hon'ble Board Members Dr. Yathiraj S, Shri. Bhojyanaik and Dr. K. Sathyanarayana	17.01.2023	Visit to department to know the activities
<b>VETERINARY COLLEGE, SHIVAMOGGA</b>			
1	Prof. K.M.L.Pathak Former Vice-Chancellor, UP.Pt. Deen Dayal Upadhyay Pashu Chikitsa Vigyan Vishwavidyalaya Evam-go-Anisandhan Sansthan, (DUVASU), Mathura	01.06.2022	Members of UGC inspection Committee for inspecting the college

2	Dr. Virendra Kumar Shukla Former Principal/Member, MP Private University Regulatory Commission Govt. of Madhya Pradesh	01.06.2022	Members of UGC inspection Committee for inspecting the college
3	Prof. B. C Kapri Head, Dept. of Physical Education Banaras Hindu University Varanasi – 221 005	01.06.2022	Members of UGC inspection Committee for inspecting the college
4	Dr. Latha K. C Education Officer UGC - SWRO, Bengaluru	01.06.2022	Members of UGC inspection Committee for inspecting the college
5	Dr. Dinesh Kumar H S Associate Research Fellow Pfizer, Cambridge, MA, USA	17.08.2022	Awareness talk on “Beyond traditional boundaries” Role of Veterinarians drug discovery
6	Dr. Vinod Bhat Secretary Veterinary Council of India, New Delhi	17.12.2022	Official visit

**VETERINARY COLLEGE, HASSAN**

1	Sri Prakash Kumar, Social Worker, Hassan	14.04.2022	Ambedkar 31 <sup>st</sup> Jayanthi” celebration
2	S.Rajendraprasad, Hon’ble Vice Chancellor, Agri University	06.06.2022	Fresher’s day
3	Dr.P.Sreenivasu, Addl. Director, AH & VS, GOK	16.08.2022	Foundation day
4	Dr. S.N.Vasudevan, Dean, College of Agriculture, Hassan	12.12.2022	Fresher’s day
5	Mr. K.S. Natesh, Chairman, Netaji Public School, Hassan	11.01.2023	As guest to inaugural of NSS NIC
6	Dr. Vipin Kumar, Director, National Innovation Foundation-India	12.01.2023	Launch of the policy brief on ‘Quality livestock service through in-situ value addition of indigenous knowledge: An approach to control tick infestation
7	Dr. R.K. Ravikumar, Scientist E, National Innovation Foundation-India	12.01.2023	Launch of the policy brief on ‘Quality livestock service through in-situ value addition of indigenous knowledge: An approach to control tick infestation
8	Mr. Gopalaiah, MD, HAMUL	12.01.2023	
9	Dr. T. Thippeswamy T., Additional Director Dept. AH & VS, BAngaloare	12.01.2023	
10	Dr. M. S. Vasanth, Retd. Dean, Veterinary College, Hassan & Bangalore	12.01.2023	
11	Dr. Vasudevan S., Dean, College of Agriculture, Hassan	12.01.2023	
12	Dr. K.R. Ramesh, DD AH& VS, Hassan	12.01.2023	
13	Dr. Nagaraj S.N., DD AH& VS, Hassan (Training center)	12.01.2023	
14	Mr. Jayaprakash, AGM, HAMUL	12.01.2023	
15	Mr. Paramesh, Commissioner, CMC, Hassan	09.02.2023	Training programme on meat

16	Dr. Prasanna Narasimha Rao, Principal, SDM College of Ayurveda and Hospital, Hassan	07.03.2023	As guest to Valedictory function of NSS NIC
17	Mr. Y.M. Uppin, Nodal Officer, State NSS Cell, Govt. of India, Bangalore	07.03.2023	As chief guest to Valedictory function of NSS - NIC
18	Ms. Kavita Umashankar Mishra, Hon'ble Member, BOM, KVAFSU	08.03.2023	International Womens day
19	Kum. Sriprada Indrakanti, SDM College of Ayurveda & Hospital, Hassan	12.03.2023	National Integration Camp G-20 Y-20
<b>VETERINARY COLLEGE, GADAG</b>			
1	<b>Visit of VCI Inspection Team:</b> The Committee was headed by Dr. V. Ramanath, Professor, Dept of Veterinary Physiology, COVAS, Trissur and other Inspection team members were Dr. D.D. Garg, Associate Professor, Dept of Animal Nutrition, College of Vet. Sci. & A.H., Junagadh and Dr. N. Nalini Kumari, Professor & Head, Dept of Animal Nutrition, College of Veterinary Science Korutla.	05.04.2022 to 07.04.2022	The Inspection of Veterinary college about the fulfillment of MSVE-2016 regulations was carried out.
2	<b>Visit of VCI Inspection Team:</b> The Committee was headed by Dr. N. P. Dakshinkar, Vice-Chancellor, DSVC Kamdhenu Vishwa Vidyalay, Durg and other Inspection team member was Dr. Ingale Sandip Vinayakrao, Maharashtra.	12.12.2022 to 14.12.2022	The Inspection of Veterinary college about the fulfilment of MSVE-2016 regulations was carried out.
<b>DAIRY SCIENCE COLLEGE, BENGALURU (DSCH)</b>			
1	Basta Goat Farm with Sheep Board staff	15.10.2022	To establish Processing section
<b>DAIRY SCIENCE COLLEGE, KALABURAGI</b>			
1	Dr. Sadanand Perla, Program Director All India Radio (Akashvani) Kalaburagi and Dr. Vani Paga, Chief Medical officer, Mahagaon village Kalaburagi	20.10.2022	Kannada Sahitya Parishath Taluka level
<b>COLLEGE OF FISHERIES, MANGALURU</b>			
1	Dr Devika Pillai, Director of Research, KUFOS Kerala	30.06.2022	To conduct Ph.D. viva
2	Dr B. Manojkumar, Registrar, KUFOS, Kerala	30.06.2022	Personal visit
<b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KUDIGE</b>			
1	Sri.A.T.Poovaiah, Deputy Conservator of Forests (Wildlife), Kodagu.	18.07.2022	As Resource person for the Farmers Training Programme
2	Dr.K.Sathyannarayan, President, Karnataka Veterinary Council, Bengaluru.	18.07.2022	As a Chief guest for the Farmers training Programme
3	M.N. Thejas, Progressive Farmer and Extension council member, KVAFSU, Bidar.	27.10.2022	Introduction of Inland Fisheries in the campus
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b>			
1	Shri. Thawar Chanda Gehlot, His Excellency, Hon'ble Governor of Karnataka	28.04.2022	To review activities at LRIC (Deoni), Bidar
2	Dr.A.K.Tripathi, DDG, Animal Science, ICAR, New Delhi	28.04.2022	To review activities at LRIC (Deoni), Bidar

<b>LIVESTOCK RESEARCH &amp; INFORMATION CENTER, NAGAMANGALA</b>			
1	UGC Team	01.06.2022	To know the activities of the research station
2	Ex-VC, MPKV, Rahuri	19.03.2023	To get advisory service on sheep rearing
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI</b>			
1	Dr. H N Chandrakala, Prof and Head KIT Tiptur	10.12.2022	Visit the institute with students for exposure visit
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, DORNAHALLI</b>			
1	Deputy Commissioner, Yadgir	12.08.2022	Technical visit to inspect the project activity
2	Commissioner, Dept. of Veterinary and Animal Sciences Govt. of Karnataka	10.10.2022	Technical visit to inspect the project activity
3	CEO, NITI AYOJ, Government of India	18.10.2022	Technical visit to inspect the project activity
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL, BENGALURU</b>			
1	Mrs. Salma K. Fahim, I.A.S., Principal Secretary, Department of Animal Husbandry, Government of Karnataka	14.06.2022	To see the activities of FRIC, Hebbal
2	a) Mr. Adachi Kazuyoshi, CEO, KB Cuento Co. Ltd., Hyog, Japan. b) Mr. Okada Hiroki, Innovation Core, Japan c) Mr. Nakamura Hirotochi, Earth Man Pitari, Japan d) Mr. Shivaprasad, Director, Svipegreen Pte, Singapore e) Prakash K V, CEO, Adachi Svipegreen Pvt. Ltd., Bangalore f) Dr. Vinay Kumar, Technical Director, Adachi Svipegreen Pvt. Ltd., Bangalore	17.01.2023	Tigreen technology Ltd, Japan, Svipegreen Pte, Singapore & Adachi Svipegreen Pvt. Ltd., Bangalore, India, delegates visited to FRIC, Hebbal, Bangalore on for collaboration research.
<b>FISHERIES RESEARCH AND INFORMATION CENTER, BHUTNAL, VIJAYAPURA</b>			
1	Dr. Vajid Mulla, Asst. Professor, UHS, Bagalkote	26.07.2022	Visited along with farmers for training program at FRIC, Bhutnal, and Vijayapur.
2	Shri. N.B. Mellaghatti, SP, Indian Police Reserve battalion, Vijayapur Shri. Nagesh Yadal Dy SP and Shri. L.G. Naik	05.08.2022	Visited for Inaugural function of fisheries training program
3	Prof. S. Chavan, Principal Agri Diploma College, Vijayapur	27.08.2022	Visited along with students
4	Dr R B Belli ADE College of Agriculture, Vijayapur. Dr. Subha, Head, KVK, Vijayapur	21.11.2022	ADE, College of Agriculture and Co-Ordinate for Extension Council member for KVFSU is attended for inaugural function and distributed the certificate for trainees
<b>KRISHI VIGYAN KENDRA, MANAGALURU</b>			
1	Shri Nalin Kumar Kateel, Honourable MP, Mangaluru	17.10.2022	To attended the Live Telecast of PM Kisan Samman Sammelana

2	Sri Vedavysa Kamath, Honourable MLA, Mangaluru South	17.10.2022	To attended the Live Telecast of PM Kisan Samman Sammelana
3	Sri Bharath Kumar S., Corporator, Jappu Ward, Mangaluru	17.10.2022	To attended the Live Telecast of PM Kisan Samman Sammelana
4	Smt. Poornima, Deputy Mayor, Mangaluru City Corporation	17.10.2022	To attended the Live Telecast of PM Kisan Samman Sammelana
<b>ANIMAL HUSBANDRY POLYTECHNIC, BARGI-CHAMARAJANAGARA</b>			
1	Mrs. Aswathi. S. Commissioner, Department of Animal Husbandry and Veterinary services, Government of Karnataka,	11.12.2022	Visit to see the Gir breeds and piggery farm at Bargi farm, Gundlupete, Chamarajangar

### 13. Important decisions taken during 17<sup>th</sup> Extension Education Council Meeting held on 11.10.2022 at Bidar

- Dr. R.B. Belli, Associate Director of Extension suggested to introduce different breeds to the farmers
- Dr. R.B. Belli, suggested to establish marine aquaculture models at different fisheries centers of the university
- Mr. Jayaguru Achar, a progressive dairy farmer suggested to conduct training programmes on dairy farming at district level
- Mr. Mandira Tejas Nanaiah, a progressive fish farmer, suggested that steps to be taken to provide information to fish farmers about the Amura fish breed developed by the university. Also he suggested to create awareness among farmers regarding innovative technologies like biofloc cage fish farming and circulating aquaculture system for ornamental fish rearing, fish diseases and treatment.
- Dr. Manjunatha Palegara, Director, Department of Animal Husbandry and Veterinary Services Bangalore suggested to conduct training programmes on animal welfare and regulations. He suggested to undertake training programmes under the National Livestock Mission (NLM) and also to publish information on lumpy skin diseases.
- Mr. Mohammad Laikh, Poultry Progressive Farmers Bidar said to conduct training programmes on poultry farming in Bidar District.
- Prof. K.C Veeranna, Hon'ble Vice Chancellor, KVAFSU, Bidar suggested to open FPO units and also suggested to collect baseline data for effective evaluation in adopted villages and informed to conduct outdoor training programmes for farmers and extension workers.
- Prof. K.C. Veeranna, Hon'ble Vice Chancellor, KVAFSU, Bidar suggested to start fish fingerlings production units at college of Fisheries Mangalore.
- Prof. K.C. Veeranna, Hon'ble Vice Chancellor, KVAFSU, Bidar suggested to document and present the practical studies in the Extension council meeting but also to publish them in the form of a booklet. He also suggested to revise the package of practice book on Animal Husbandry and Fisheries. And suggested to conduct skill development training programmes for unemployed youth.



## IV. PUBLICATIONS

### 1. Research Papers

#### i) International Publications

##### a) In Journals

#	<i>Authors, Year of publication, Title of the paper and Journal</i>
<b>VETERINARY COLLEGE, HEBBAL, BENGALURU</b>	
1	P.V. Spandan, W. Ruban, V. Sejiana, Devaraj , M.V. Silpa, V.B. Awac hat, G.B. Manjunathareddy, R. Bhattaa. 2022. Heat stress induced changes in the major carcass traits and quantitative expression patterns of selective meat quality determining genes in Kanni Aadu Goats. <i>Food Chemistry Advances</i> , 1: 100053.
2	Anandhi, M., Jayanaik, V. Malathi, H. C. Indresh, TM Prabhu and AV Elangovan, 2022. Influence of <i>in ovo</i> injection of Nano forms of Zinc, Copper and Chromium on Morphometry of Intestine and Immune Response in Broiler Chicken. <i>Int.J.Curr. Microbial App. Sci.</i> ,11(07): 301-307.
3	Yegireddy, M., Nadoor, P., Rao, S., Hanumanthu, P.B., Rajashekaraiah, R., Ramachandrappa, S.C., Halemani, G.M., Mannem, S., Prasad, T.N.V.K.V. and Ubaradka, S., 2022. Chitosan Encapsulated Meloxicam Nanoparticles for Sustained Drug Delivery Applications: Preparation, Characterization, and Pharmacokinetics in Wistar Rats. <i>Molecules</i> , 27(21): 7312.
4	Ramesh, H. S., Sumanta, N. and Girish Kumar Venkatesh, 2022. Proteomic analysis of oocytes retrieved from <i>in vitro</i> cultured ovine small antral follicles and large antral follicles cultured with amphiregulin, neuregulin-1 and tumour necrosis factor- $\alpha$ . <i>International Journal of Farm Sciences</i> , 12(1): 1-4.
5	Deepthi Balam, Rathnamma Doddamane, Ramani Pushpa Rayudu Nandini, Shrikrishna Isloor, Veeregowda Belamaranahally and Himaji Maddireddy Muralidhara Metta, 2022. Simultaneous detection of velogenic New castle disease virus of genotype XIII 2.2 from spot billed pelican and backyard chicken: implications to the viral maintenance and spread. <i>Acta Virologica</i> , 66: 238 – 248.
6	R. Shivakumar, S. Wilfred Ruban, Shrikrishna Isloor, D. Rathnamma, Ahlen IG Barry, R. Sharada, Sudarshan, S. and H. B. ShivappaNayak, 2022. Antibioqram pattern of <i>E. coli</i> isolated from healthy adult pigs in pig farms located in and around Bengaluru, India. <i>The Pharma Innovation Journal</i> , SP-11(9): 350-353.
7	R. Shivakumar, S. Wilfred Ruban, Shrikrishna Isloor, D. Rathnamma, Ahlen IG Barry, R. Sharada and P. Ravikumar, 2022. Socio-economic status, health care and antimicrobial usage practices adapted by pig rearers in and around Bengaluru, Karnataka, India. <i>The Pharma Innovation Journal</i> , SP-11(9): 402-407.
8	Karthik, C.D., Rathnamma, D., Shrikrishna Isloor, Sharada, R., Veeregowda, B.M. and Shivashankar, B.P. 2022. Isolation and Molecular identification of Mycoplasma in small ruminants in Bengaluru division of Karnataka state. <i>The Pharma Innovation Journal</i> , SP-11(11): 1589-1593.
9	Hridya Susan Varughese, Chethana Chandrasahsa, Kavitha, G.M., Akhila, D.S., Shreya Gopinath, Kavitha Govindaiah, Tilak Chandan, S., Vinay C. Prakash Rao, Madhusudhan Hosamani, Sharada Ramakrishnaiah, Rathnamma Doddamane, Divakar Hemadri and Shrikrishna Isloor, 2023. Development of recombinant partial nucleoprotein of rabies virus as the potential antigen for developing in house immunodiagnosics. <i>The Pharma Innovation Journal</i> , 12(1): 516-519.
10	Karnik, M., Kumar, A., Shabir Khaki, A. and Mirza, H., 2022. First molecular detection of <i>Babesia gibsoni</i> in a horse. <i>Equine Vet Educ.</i> , 34: e116 - e119.

11	Gowda, B.R., Prakash, N., Santosh, C.R., Pavithra, B.H., Rajashekharaiiah, 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.
12	Shivaprasad Gowrapura Rajaiah, Prakash Nadoor, Suguna Rao, Ramesh Poojari Thimmaiah, Pavithra Balekatte Hanumanthu, Leena Gowda, Shridhar Naryana Bhat, Rashmi Rajashekaraiah, Tollamadugu Naga Venkata Krishna Vara Prasad and Muralidhar Yagiraddy, 2022. Comparative studies on dispersion characters of Titanium Dioxide (Ti)2 Nanoparticles for rodent toxicology studies. <i>Letters in Applied Nano Bio Science</i> , 12(2): 1-9.
13	Shivaprasad Gowrapura Rajaiah, Prakash Nadoor, Suguna Rao, Ramesh Poojari Thimmaiah, Pavithra Balekatte Hanumanthu, Leena Gowda, Prashanthkumar Waghe, Tollamadugu Naga Venkata Krishna Vara Prasad and Muralidhar Yagiraddy, 2022. Sub -chronic exposure (90 days) to Titanium Dioxide nanoparticles (TiO <sub>2</sub> , NPs) induces alterations in haematology and serum biochemistry in male Wister rats: effect of Exogenous Melatonin supplementation. <i>Letters in Applied Nano Bio Science</i> , 12(1): 1-15.
14	Mahendra, P., Kirubel, P.G., Leena, G., Pratibha, D., 2022. Lassa Fever: An emerging and Re-emerging fatal viral disease of public health concern. <i>American Journal of Public Health Research</i> , 10(4): 43-146.
15	Mahendra, P., Leena, G., Kirubel, P.G., Adugna, G.L. and Jyoti, P.S., 2022. Melioidosis: A life threatening tropical disease of public health significance. <i>Journal of Advances in Microbiology Research</i> , 3(2): 05-09.
16	Bylaiah, S., Seema, S., Kuralayanapalya, P.S., Gowda, L., Mohan Kumar, G.S. and Sharanagouda, S.P., 2022. Estimation of the basic reproduction number to assess the impact of precipitation change on the risk of an anthrax outbreak among livestock in Karnataka, India. <i>Webology</i> , 19(2): 2898 - 2911.

**VETERINARY COLLEGE, BIDAR**

1	Ravindra Dombar, Rakesh Chouraddi, Prabhakar, B,C., Umashankar, B,U., Umesh, B Ramachandra and C Kathirvelan., 2023. Effect of L-threonine supplementation on egg production and quality parameters in white leghorn. <i>The Pharma Innovation Journal</i> ,12(2): 1655-1657.
2	Shivamurthy Vakare, NA Patil, Baswaraj Nitture, Vivek R Kasaralikal, D Dilip Kumar, M.D., Suranagi and B Ramachandra., 2023. Rumen impaction incidence, diagnosis and laboratory findings in sheep. <i>J. Pharm. Innov.</i> , 10(11): 990-992.
3	Ravindra Dombar, A. K. Tyagi.C. Kathirvelan, Arun Kharate and J. Adeppa., 2022. Isolation and characterization of Butyrivibrio fibrisolvens from rumen of Murrah buffalo having high potential to isomerize linoleic acid to conjugated linoleic acid. <i>Journal of Experimental Zoology India</i> , 25(1)
4	B. Channappagouda, G. R. K. Sharma, K. C. Veeranna, J. Suresh and B.Punyakumari. (2022) Small Ruminants Market Orientation In Karnataka: Farmers' Perceptions, <i>Journal of Experimental Zoology India</i> ,Page no.g
5	Channappagouda Biradar, G.R.K. Sharma, KC Veeranna and Maheboob Ali.2022. Socio-economic profile of small ruminant farmers in Karnataka. <i>The Pharma Innovation Journal</i> .,11(9S): 2261-2265.
6	Kanakaraja., M.G., Mahadevappa, D. Gouri., Vivek., M. Patil., Channappagouda Biradar, Kotresh Prasad, Prasanna, S.B., Basavarajaiah, D.M and Jagjiwan Ram. 2022. Socio-economic profile of Kenguri sheep farmers under extensive rearing system in Yadgir district of Karnataka. <i>The Pharma Innovation Journal</i> . 11(5S): 548-551.
7	Shridhar, Vivek, M. Patil., Prashant, G. Waghmare., Satish Chandra Biradar, Channappagouda Biradar and Prakashkumar Rathod. Sheep production practices in North Karnataka. 2022. <i>The Pharma Innovation Journal</i> . 11(4S): 1020-1025

8	Shridhar, Vivek M Patil, Prashant G Waghmare, Satish Chandra Biradar, Channappagouda Biradar and Prakashkumar Rathod. 2022. Constraints to sheep production in Karnataka. <i>The Pharma Innovation Journal</i> . 11(4): 838-840
9	Kiran, M., Maheswarappa, N. B. and Banerjee, R. 2022. Exploring the dynamics of women consumer preference, attitude and behaviour towards meat and meat products consumption in India. <i>Meat Science</i> . 193:108926.
10	Danawadkar, V. N., Ruban, S. W., Milton, A. A. P., Kiran, M., Momin, K. M., Ghatak, S., & Porteen, K. 2023. Development of novel isothermal-based DNA amplification assay for detection of pig tissues in adulterated meat. <i>European Food Research and Technology</i> . 1-9.
11	Mahe Anjum, Nidhishree, J. Jakkali. and Prashant, G. Waghmare. 2023. Housing system under organic livestock farming. <i>IVA-VET VISION</i> , Jan: 23-28.
12	T. Karuthadurai, 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.
13	T. Karuthadurai, 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.
14	Manjunath Patil, J. Adeppa, C. M. Krishnamurthy, B. K. Ramesh, Mahesh, Pralhad, M. T. Mahantesh, Kotresh C. Prasad, J. N. Sreedhara and Jagjiwan Ram. 2022. Prevalence of Gastro-Intestinal Parasitism and Anthelmintic Resistance In GI Nematodes of Small Ruminants In Semi-Intensive Farms of Kalyana-Karnataka, Region, India. <i>J. Exp. Zool. India</i> 26(1):595-604.
15	Gulagi, N., Ambika, Nitture, B., Bijurkar, R. G., Tandle, M. K., Dhabale, R., Suranagi, Kulkarni, S., Kartikesh, Doddagoudar, V., & Jasrotia, N. 2022. Effect of flushing and estrus synchronization in Kenguri ewes. <i>T.P.I.</i> , 11(10):1523-1525.
16	Gulagi, N., Ambika, Nitture, B., Bijurkar, R., Tandle, M., Dhabale R B, Suranagi, Kulkarni, S., Kartikesh, Doddagoudar, V. and Jasrotia, N. 2022. Serum glucose & cholesterol levels in anestrus and estrus Kenguri ewes. <i>T.P.I.</i> , 11(10):1436-1438.
17	Pasha, M. M., Bijurkar, R.G., Doddagoudar, V., Malasri, G., and Poornima. 2023. Successful management of dystocia due to lateral deviation of head and neck along with fetal emphysema in a jenny: A case report. <i>T.P.I.</i> , 12(2):546-548.
18	Doddagoudar, V., Bijurkar, R. G., Gond, M., Mujaheed Pasha, M. and Tandle, M. K. 2023. A rare case of dystocia due to conjoined Sternopagus twin monster of posterior presentation in a buffalo. <i>T.P.I.</i> , 12(2):86-87.
19	Prashantkumar, Bijurkar, R.G., Venkanagouda, D., Tandle, M.K., Suranagi, M.D., Shrikant Kulkarni. 2023. Biochemical changes in postpartum Bidri goats supplemented with maize alone or with safflower oil and estrus synchronised using CIDR based Protocol. <i>T.P.I.</i> , 12(2): 1200-1204.
20	Ajjanagi Bhimappa, D. Dilipkumar, B. Bhagavantappa, D. R. Manjunatha, Manjunath Patil, Sandeep Halmandge and M. D. Suranagi. 2022. Clinical haematobiochemical radiographic and ultrasonographic diagnosis of foreign body induced reticular affections and pericarditis in bovines. <i>J. Exp. Zool. India</i> . 25:2273-2278.
21	Gurunath Pasare, Prashant G Waghmare, Vivek M Patil, Satish Chandra Biradar, Prakashkumar Rathod and Shrikant Dodamani (2022). Management practices of indigenous cattle in North Karnataka. <i>The Pharma Innovation Journal</i> , 11(9): 1999-2002.
22	Gurunath Pasare, Prashant G Waghmare, Vivek M Patil, Satish Chandra Biradar, Prakashkumar Rathod and Shrikant Dodamani (2022). Socio-economic status of farmers maintaining indigenous cattle in Bidar district of Karnataka State. <i>The Pharma Innovation Journal</i> , 11(9): 1927-1929.
23	Ashwini K, Biradar SC, Vivek MP, Jayashree R and Prakash Rathod, Anathrao Desai and Gurunath P (2022). Morphometric studies of the different body parameters in Kenguri sheep. <i>The Pharma Innovation Journal</i> , 11(9): 1994-1998.

<b>VETERINARY COLLEGE, SHIVAMOGGA</b>	
1	Manoj B. Kudupoje, Venkataramaiah Malathi and Alexandros Yiannikouris, 2022. Impact of a Natural Fusarial Multi-Mycotoxin Challenge on Broiler Chickens and Mitigation Properties Provided by a Yeast Cell Wall Extract and a Postbiotic Yeast Cell Wall-Based Blend. <i>Toxins</i> : 14, 315: 1-26
2	Nagappa Karabasanavar., Madhavaprasad, C.B., Shilpa Agalagandi Gopalakrishna., Prashanth, S. Bagalkote.,Girish Shivanagowda Patil., Gopalan Krishnan Sivaraman., Sukhadeo,B.Barbuddhe., 2022. Polyclonal hen egg yolk antibodies could confer passive protection against <i>Salmonella</i> serotypes in broiler chicks. <i>Journal of Food Safety.</i> , 42(4): e12987.
3	Basavaraja, G.D, Shridhar.N.B., Sunil Chandra U., Ravikumar C., Manjunatha S.S., Vinay P.Tikare.,Baglkote, Niranjana.D, Vinuta M.H., Mohan B.R., 2022. Studies on Pharmacological and Toxicological Aspects of <i>Trianthema portulacastrum</i> in Rats. <i>International Journal of Pharmaceutical Research and applications</i> , (7):1032-1051.
4	Shivaprasad Gowrapura Rajaiah., Prakash Nadoor., Suguna Rao, Ramesh Poojari Thimmaiah., Pavithra Balekotte Hanumanthu., Leena Gowda., Prashantkumar Waghe., Tollamadugu Naga Venkata Krishna Var a Prasad, Muralidhar Yegireddy.2023. Sub-chronic exposure (90 days) to Titanium Dioxide Nanoparticles (TiO <sub>2</sub> NPs) induces alterations in hematology and serum biochemistry in male Wistar Rats: Effect of exogenous melatonin supplementation. <i>Letters in Applied NanoBioScience</i> (12) 1: <a href="https://doi.org/10.33263/LIANBS121.00">https://doi.org/10.33263/LIANBS121.00</a>
<b>VETERINARY COLLEGE, HASSAN</b>	
1	Girish, P.S., Kumari A, Gireesh-Babu, P., Karabasanavar, N.S., Raja, B., Ramakrishna, C., & Barbuddhe, S.B. 2022. Alkaline lysis–Loop mediated isothermal amplification (AL-LAMP) assay for rapid and on-site authentication of buffalo ( <i>Bubalus bubalis</i> ) meat. <i>Journal of Food Safety</i> . 42(1): e12955.
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15	Sanjeevakumar, L., Suguna Rao, Byre gowda, S.M., Chethankumar, H.B., Patil, S.S., Leena G., Viveka Prabhu and Manjunatha Reddy, G.B., 2022. Pathological and molecular diagnosis of lumpy skin disease in cattle in Karnataka. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.138.



16	Yashas R. Kumar, H. D. Narayanaswamy, Suguna Rao, M. L. Satyanarayana, Prakash Nadoor and D. Rathnamma, 2022. Studies on streptozotocin induced diabetes in rats and its amelioration by pomegranate juice and peel extract. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.251.
17	Yashas R. Kumar, Shivaraj Murag, B.P. Shivashankar, Raveendra Hegde, Sanjeev Kumar, M., Shankar, B.P. and Sripad, K., 2022. A case report of mycoplasmosis in sheep farm of Chikkaballapur district, Karnataka. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.189.
18	Yashas R. Kumar, Shivaraj Murag, B.P.Shivashankar, Raveendra Hegde, M. Sanjeev Kumar, B.P. Shankar and K. Sripad, 2022. An outbreak of Anthrax ( <i>Bacillus anthrax</i> ) in sheep and its management in Chikkaballapur district. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.189.
19	Yashas R. Kumar, B.P. Shivashankar, M. Sanjeev Kumar, Shivaraj Murag, B.P. Shankar, Raveendra Hegde and K. Sripad, 2022. A first case report of African Swine Fever (ASF) in Bengaluru, Karnataka. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.190.

20	Yashas R. Kumar, B.P. Shivashankar, M. Sanjeev Kumar, Shivaraj Murag, B.P. Shankar, Raveendra Hegde and K. Sripad, 2022. Classical Swine Fever and African Swine Fever: A comparative study. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.190.
21	Yashas R. Kumar, M. Sanjeev Kumar, Yashas D. Vodeyar, B.P. Shivashankar, B.P. Shankar and N.E. Kranthi, 2022. A case report of malignant catarrhal fever (MCF in Gaur/Indian bison ( <i>bos gaurus</i> )). XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.191.
22	G.B. Manjunatha Reddy, H.B. Chetan Kumar, R. Yogeshardhya, L. Sanjeev, Vivekaprabhu, Sudeep Nagaraj, Suguna Rao, Veere Gowda, N. Shivasharanappa and B.R. Shome, 2022. Epidemiological and molecular investigation of lumpy skin disease in Karnataka, India. XXXIX Annual Conference of Indian Association of Veterinary Pathologists and XIII Annual Meeting of Indian College of Veterinary Pathologists and International Symposium on "Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Productivity", 17 <sup>th</sup> -20 <sup>th</sup> November, 2022. Jointly organised by Department of Veterinary Pathology, College of Veterinary Science, Rajendranagar, P.V Narsimha Rao Telangana Veterinary University, Hyderabad and Indian Association of veterinary Pathologists and Indian College of Veterinary Pathologists published in International Veterinary Pathology Congress-2022, Page No.157.
<b>VETERINARY COLLEGE, BIDAR</b>	
1	Ravindra Dombar, B. Ramachandra, T. Thirumalesh, Shrikant Kulkarni, M. D. Suranagi, Vivek Patil and N. Jaishanka., 2022. Evaluation Of Super Napier ( <i>Pennisetum Purpureum</i> ) and COFS-29 Silages by <i>In Vitro</i> and <i>In Vivo</i> Method. ANSICON-202219 <sup>th</sup> Biennial International conference. GADUVASU, India.
2	Ravindra Dombar, B. Ramachandra, T. Thirumalesh, Shrikant Kulkarni, M. D. Suranagi, Vivek Patil and N. Jaishankar., 2022. In Vitro and In Vivo Evaluation of Super Napier ( <i>Pennisetum purpureum</i> ) and COFS-29 Fodders in Kenguri Sheep. ANSICON-202219 <sup>th</sup> Biennial International conference. GADUVASU, India.
3	Prashantkumar Waghe, Prakash Nadoor and M. Vijaykumar (2022). Experimental Sub-Chronic Exposure to Sodium (Meta) Arsenite Interferes with Pharmacodynamic of Ketoprofen in Wistar Rats. XXII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology and International Symposium on New Horizons in Veterinary Pharmacology and Toxicology Research: Way Forward to Augment Livestock Health and Production, 02-04 <sup>th</sup> November 2022 organised Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Namakkal - 637002, Page No. 53



4	Prashantkumar Waghe, Prakash Nadoor and M.Vijaykumar (2022). Experimental Sub-Acute Exposure to Sodium (Meta) Arsenite interferes with Pharmacodynamics of Meloxicam in Wistar Rats. XXII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology and International Symposium on New Horizons in Veterinary Pharmacology and Toxicology Research: Way Forward to Augment Livestock Health and Production, 02-04 <sup>th</sup> November 2022 organized Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Namakkal - 637002, Page No. 221.
5	Arun Kharate, Basavaraj Awati, N. A. Patil, B. Ravindra, Jagannath Rao, T. Vinay, U. Prahlad, P. Suryakanth, D. Lina, K. Kavita, Ashok Bhosle and L. Gopala 2022. Comparative study of Phenotypic and Genotypic characterization of Extended Spectrum Beta-Lactamase producing <i>Escherichia coli</i> in poultry from North-Eastern region of Karnataka. XI Conference of Indian Meat Science Association and International Symposium on “Novel Technologies and Policy Interventions for Sustainable Meat Sector” held on December 14-16, 2022 at Hyderabad.page no. 147
6	Arun Kharate, Basavaraj Awati, N. A. Patil, B. Ravindra, Jagannath Rao, T. Vinay, U. Prahlad, P. Suryakanth, D. Lina, K. Kavita, Ashok Bhosle and L. Gopala 2022 Phenotypic characterization of ESBL <i>Escherichia coli</i> in poultry from North-Eastern region of Karnataka. XI Conference of Indian Meat Science Association and International Symposium on “Novel Technologies and Policy Interventions for Sustainable Meat Sector” held on December 14-16, 2022 at Hyderabad. Page no.165
7	Mamatha S.P., Madhavaprasad C.B., Arun Kharate, Prashant S. Bagalakot, Sundareshan S. Shamanth Rakkith R.N. Prevalence and characterization of Listeria species at different eco-epidemiological units of animal interface 2022 “Novel Technologies and Policy Interventions for Sustainable Meat Sector” held on December 14-16, 2022 at Hyderabad. Page no. 167
8	Mallinath K C., Basavaraj A., Jagadish B H., Patil N A., Jagannatha Rao B. Sequencing and Phylogenetic analysis of PPR Virus from Sheep and Goats of North-Eastern Karnataka (India) 22 <sup>nd</sup> Indian Veterinary Congress & XXIX annual Conference of IAAVR, held from 8 <sup>th</sup> to 9 <sup>th</sup> April 2022 PP:231-232.

**VETERINARY COLLEGE, SHIVAMOGGA**

1	Basil Poulose Chundath, Chidanandaiah, Pavan M, Kavya, Madura, Avinash, Harshitha Emaculate, and Arjun (2022) Evaluation of quality characteristics of pig ( <i>Sus scrofa domestica</i> ) meat in and around Chikkamagaluru district, Abstract presented at XI conference of IMSA & International symposium at National Meat Research Institute, Chengicherla, Hyderabad, w,e,f. 14.12.2022 to 16.12.2022 PP: 10
2	Chidanandaiah and Pavan M (2023) Mutton and Chevon production. Compendium of Training programme on “Entrepreneurial opportunities in Sheep and Goat rearing” PP 25-26, LFC, VCS, Shivamogga
3	Mamatha S.P, Dr.Madhavaprasad C.B, Dr.Arun Kharate, Dr.Prashanth S Bagalakote, Sundareshan S, Shamanth Rakkith R.N, Jithendra B.U, and Hemanth. 2022. Prevalence and Characterization of Listeria Species at different eco-epidemiological units of animal interface. International Symposium on “Zoonotic and Transboundary Diseases: Breaking the chain through Multidisciplinary Approach” by XVIII <sup>th</sup> Annual Conference of Indian Association of Veterinary Public Health Specialists(IAVPHS) , Pg.No:171 -172.
4	Shamanth Rakkith R.N, Dr.Madhavaprasad C.B, Dr. Prashanth S Bagalakote, Dr.Arun S.J, Udupa k, Ananthakrishna L.R, Jithendra B.U, and Hemanth P, 2022. Prevalence and Characterization of <i>Salmonella</i> species/subspecies at different eco-epidemiological units of animal interface. Abstracts International Symposium on Zoonotic and Transboundary Diseases: Breaking the chain through Multidisciplinary Approach and XVIII <sup>th</sup> Annual Conference of Indian Association of Veterinary Public Health Specialists(IAVPHS) Pg.No:173

5	Mamatha S.P, Dr.Madhavaprasad C.B, Dr.Arun Kharate, Dr.Prashanth S Bagalakote, Sundareshan S, Shamanth Rakkith R.N, 2022. Isolation and molecular characterization of <i>Listeria</i> species from animal and environmental samples. IMSACON-XI Conference of Meat Science Association & International Symposium on Novel Technologies & Policy Interventions for sustainable meat value chain 14-16 Dec, 2022 Pg.No:166
6	Mamatha S.P, Dr.Madhavaprasad C.B, Dr.Arun Kharate, Dr.Prashanth S Bagalakote, Sundareshan S, Shamanth Rakkith R.N, 2022. Prevalence and Characterization of <i>Listeria</i> Species at different eco-epidemiological units of animal interface. Book of Abstracts IMSACON-XI Conference of Meat Science Association & International Symposium on Novel Technologies & Policy Interventions for sustainable meat value chain 14-16 Dec, 2022 Pg.No:167
7	G.D Basavaraja, N.B. Shridhar, U. Suni,Chandra, C. Ravikumar, S.S. Manjunatha, Vinay Tikare, Prashanth S Bagalkote, D. Niranjan and B.R. Mohan, 2022 Evaluation of Pharmacological and Toxicological properties of <i>Trianthema portulacastrum</i> in Wister Rats. Compendium of XXII Annual Conference of Indian Society of Veterinary Pharmacology & Toxicology and International Symposium on Indian Veterinary Pharmacology & Toxicology Research: Way Forward to Augment Livestock Health and Production 2-4 November, 2022 Pg.No: 176
8	Krishna. Y.K, Kiran S, Sadashiva and Maltesh D.S (2022) Therapeutic management of Demodicosis using fluralaner-Acase report. Dermatology case conference held during 9-11 June-2022 at Madras Veterinary Collge, Vepery, Chennai pp: 77
9	Meghana V, Sushma Prabhu, Sindhu A, Sadashiva and Maltesh D.S (2022) Diagnosis and therapeutic management of canine Pyodemodicosis Acase report. Dermatology case conference held during 9-11 June-2022 at Madras Veterinary Collge, Vepery, Chennai pp: 79
10	Sindhu A., Sushma Prabhu, Meghana V, Sadashiva and Maltesh D.S (2022) Pyodemodicosis in dog -Acase report. Dermatology case conference held during 9-11 June-2022 at Madras Veterinary Collge, Vepery, Chennai pp:91
11	Sushma Prabhu, Meghana V, Sindhu A.,Yoganand K.C, and Ravindra B.G. (2022) Successful management of nutritional dermatosis in a calf - Acase report. Dermatology case conference held during 9-11 June-2022 at Madras Veterinary Collge, Vepery, Chennai pp:61
12	Ravindra B.G. Akash, Sunilchandra U, Pradeep B.S. and Manjunatha S.S. (2022). Assessment of acute dermal toxicity of lemon grass oil ( <i>cymbopogon citratus</i> ) in cattle. 9 <sup>th</sup> World Ayurveda Congress and Arogya Expo held during 8-11 December-2022 at Panjim, Goa pp:56

**VETERINARY COLLEGE, HASSAN**

1	Manasa NS, Shilpa VT, Girish BC, Ravikumar P, Nagappa Karabasanavar, Satheesha SP, & Ravikumar BP. 2023. Molecualr phylogeny of Orcine Circovirus 2 isolated from Indian pigs with respiratory lesions. International conference on Current technologies and opportunities in bio-sience (CTOB-2023), 27-29 March 2023. Pp 89.
2	Ravindra B Gangadkar, Ravikumar P, Nagappa Karabasanavar, Girish BC, Shilpa VT, Naveen kumar GS, Raveendra Hegde & Shivashankar BP. 2023. Phylogeny analysis of fusion protein gene of Lumpy Skin Disease virus that caused outbreak in Karnataka. International conference on Current technologies and opportunities in bio-sience (CTOB-2023), 27-29 March 2023. Pp 90.
3	Sobha Rani.M, Prabhakar,T.G., and *Samuel,R, Indigenous Development and standardization of LAM–ELISA for detection of Antibody against <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in animals oral presentation in ICTOB 2023 held at College of Agriculture, Karekere, Hassan from 27 to 29 th March 2023 ”.

4	Sharath Kumar, B, Ravikumar, P, Girish, B.C., Shilpa, V.T. Naveen Kumar, G.S., Sheela, P and Shivakumar, M.C, Amplification of 16S-23 S rRNA intergenic spacer region for detection of <i>Mycoplasma gallisepticum</i> infection in chickens. Poster presented in ICTOB 2023 held at College of Agriculture, karekere, Hassan from 27 to 29 <sup>th</sup> March 2023
<b>VETERINARY COLLEGE, GADAG</b>	
1	Akash N H, Suresh P, Santosh S, Shivakumar M, Ajayreddyy Ch and Rajath Sagare, 2022, Therapeutic Management of Dermatophytosis in Persian cat. International conference on Advancing Veterinary dermatology practice, education and research in developing countries & Inagural convention and satellite symposiums of the Association of Veterinary Dermatology, India
2	Akash N H, Santosh S, Shivakumar M, Ajay Reddy Ch and Rajath Sagare, 2022, Therapeutic Management of Ear mite Infestation in Persian Cat – a case report. International conference on Advancing Veterinary dermatology practice, education and research in developing countries & Inagural convention and satellite symposiums of the Association of Veterinary Dermatology, India
3	Akash N H, Suresh P, Santosh S, Shivakumar M, Ajay Reddy Ch and Rajath Sagare, 2022, Therapeutic Management of pyodermoidosis and hypothyroidism in german shepherd dog- a case report. International conference on Advancing Veterinary dermatology practice, education and research in developing countries & Inagural convention and satellite symposiums of the Association of Veterinary Dermatology, India
<b>COLLEGE OF FISHERIES, MANGALURU</b>	
1	Namrutha, M. R., Tejaswini, A. C., Harshitha, H. and Girisha, S. K., 2022. Application of novel lytic phage in controlling multidrug resistance <i>Aeromonas hydrophila</i> in fish meat. 3 <sup>rd</sup> International Conference on Bacteriophage Research and Antimicrobial Resistance (ICBRAR-2022). Dept. of Applied Genetics, Karnataka University, Dharwad. 26 <sup>th</sup> & 27 <sup>th</sup> November, 2022
<b>INSTITUTE OF WILDLIFE VETERINARY RESEARCH, KUDIGE</b>	
1	L.Ranganath 2022. “Clinicians update on Osteoarthritis in Companion animals” National Seminar on “Current Challenges in Veterinary Orthopaedics and Updates on Corrective Strategies” Sri.Venkateswara Veterinary University, Department of Veterinary Clinical Complex, College of Veterinary Science, Tirupathi. 26 <sup>th</sup> and 27 <sup>th</sup> August 2022.
2	L.Ranganath 2022. “Ozone Therapy in Canine Practice” XVIII annual Convention of Indian Society for Advancement of Canine Practice and National Symposium on Newer Concepts. College of Veterinary and Animal Science, Navania, Udaipur (Rajasthan University of Veterinary and Animal Sciences, Bikaner), Department of Veterinary Medicine. 22 <sup>nd</sup> -25 <sup>th</sup> September-2022
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b>	
1	Vijaykumar N., Prakashkumar Rathod, 2022. An overview of forage crops seed production in India, VII <sup>th</sup> International Conference (Hybrid mode) on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2022) during 21-23 <sup>rd</sup> Nov 2022 at Birsa Agricultural University, Ranchi, 87-89.
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI</b>	
1	Shenoy H and Siddaraju M N (2022) Dry matter production and yield of rice as influenced by integrated use of organic and inorganic sources of nitrogen. Extended Summary in National Seminar on “Sustainable Food Systems For Self Reliant and Climate Resilient Agriculture, UAS Dharwad 16-18 <sup>th</sup> June 2022.pp 32-33

## ii) National Publications

### a) Publications in Journals

#	Year/ Authors / Title of Paper / Journal
<b>VETERINARY COLLEGE, BENGALURU</b>	
1	Sarathi, N., Ramesh, Nagaraja Ramakrishnappa, Naveen, K., Siddaraju., Yathish, H., Maheshwarappa and Nagaraja C. Sringshwaraiyah, 2022. Genetic variations in <i>Toll-like receptor-4</i> and <i>Myeloid differentiation protein-2</i> Genes among Giriraja and Indigenous Chicken. <i>Indian Journal of Veterinary Sciences &amp; Biotechnology</i> , 18(2): 26-31.
2	Harshitha, B., Naveen Kumar, S., Nagaraja, C. S. and Ratnamma, D., 2022. Genetic polymorphism of <i>DGAT1</i> gene in Mandya and Hassan sheep of Karnataka. <i>Indian Journal of Small Ruminants</i> , 28(2): 246-251.
3	Shanthesha, K. M., Ruban, S. W., Guruprasad, R., Shivappanayaka, H. B., Naveen, K. S., Shivakumar, R. and Sudarshan, S., 2023. Effect of Age at Slaughter on Various Carcass Characteristics of Hassan Sheep. <i>Indian Journal of Veterinary Sciences &amp; Biotechnology</i> , 19(1): 91-95.
4	Satheesha, G. M., Nagaraja, R., Yathish, H. M., Sahadev, A., Jayashree, R. and Kotresh, A. M., 2022. DNA Polymorphism in Exon 1 of Toll Like Receptor 4 Gene of Malnad Gidda Cattle. <i>Frontier J. Vet. Anim. Sci.</i> , 10(1): 27-30.
5	Noor Aminullah, Prabhu, T. M., Suresh, B. N., Malathi, V., Mohammad Dawood Bawer and Yathish, H. M., 2022. Effect of organic and nano copper at reduced dietary levels on biochemical profile and immune response of Giriraja and Swarnadhara birds. <i>Indian Journal of Animal Sciences</i> , 92 (10): 1210–1215.
6	Shivashanker, Yathish, H. M., Basavraj Inamdar, Appannavar, M. M. and Nagaraja, C. S., 2022. Study on genetic variations of kappa casein gene in local and exotic breeds of cattle. <i>The Pharma Innovation Journal</i> , 11(10): 1743-1745.
7	Sudhir, N., Jayanaik, Basavraj Inamdar, Sarojini R. Naik, Sudha, K. V., Sudarshan, S. and Mohan, H. V., 2023. Carcass Characterization of Native Chick en of Gulbarga Division in Karnataka. <i>J. Exp. Zool. India</i> , 26 (1): 443-449.
8	Sudha, K. V., Sarojani J. Karakannavar, Basavraj Inamdar and Nirmala B. Yenagi, 2022. Shelf life study of foxtail millet ( <i>Setaria italica</i> ) based laddu. <i>The Pharma Innovation Journal</i> , 11(4): 1608-1612.
9	Naveen Kumar, G.S., Basavraj Inamdar, Hemanth Gowda, K. and Shrikanth Dodamani, 2022. Phenotypic and Carcass Characterization of Hassan Sheep. <i>Asian Journal of Dairy and Food Research</i> , 41(2): 173-177.
10	Umesh Mirje, Mahadevappa D. Gouri, Vivek M. Patil, Umashankar, B.C., Manjunatha, L., Basavaraj Inamdar, Raghavendra, G. and Prasanna, S. B., 2022. Study of basic behavioural patterns in lactating dairy buffaloes under intensive system of farming. <i>The Pharma Innovation Journal</i> , 11(4): 1437-1440.
11	Raghavendra, G., Mahadevappa D. Gouri, Vivek M. Patil, Basavaraj Inamdar, Umesh Mirje and Prasanna, S. B., 2022. Effect of heat stress on biochemical parameters of dairy cows in Bengaluru region of Karnataka. <i>The Pharma Innovation Journal</i> , 11(5): 664-667.
12	Chethan, K. P., N. K. S. Gowda, T. M. Prabhu, P. Krishnamurthy, Debaprio Kumar Dey, K. Giridhar and S. Anandan .2022. Nutritional evaluation of Hydroponic Maize ( <i>Zea mays</i> ) grain sprouts as a newer green feed resource in Lambs. <i>Indian Journal of Animal Research</i> , 56 (4); 434 – 443.
13	Noor Aminullah, T. M. Prabhu, Jaya Naik, B. N. Suresh and N. Suma.2022. Effect of reduced dietary copper levels sourced from organic and nanoparticles forms on performance and nutrient utilization in Giriraja birds. <i>Indian Journal of Animal Research</i> , 56(1); 58-64.



14	Noor Aminullah, T. M. Prabhu, B. N. Suresh, V. Malathi, Mohammad Dawood Bawer and H. M. Yathish.2022. Effect of organic and nano copper at reduced dietary levels on biochemical profile and immune reponse of Giriraja and Swarnadhara birds. <i>Indian Journal of Animal Sciences</i> , (10): 1210-1215.
15	Noor Aminullah, T. M. Prabhu, Jaya Naik, B. N. Suresh, T. Chikkaramappa and B. C. Umashankar.2022. Effect of organic and nano forms of copper at reduced dietary levels on excretion and tissue deposition of selected minerals in Giriraja chicken. <i>Animal Nutrition and Feed Technology</i> , 22:489-501.
16	Punith, G., T. M. Prabhu, N.K.S. Gowda, D. T. Pal, K. Giridhar, C. H. Girish, Debpriyo Kumar Dey, K. Bharathi, K. Nagaraj, K. P. Chethan and Raghavendra Bhatta.2023. Evaluation of Moringa ( <i>Moringa oleifera</i> ) forage meal in feeding of adult sheep. <i>Animal Nutrition and Feed Technology</i> , 23: 25-38.
17	Aminullah, N., T. M. Prabhu, B.N. Suresh and A. Mostamand. 2022. Nano Copper in Poultry Nutrition: Potential Effects and Future Prospects - A Review. <i>Indian Journal of Animal Nutrition</i> , 39 (4): 332-347.
18	Chethan, K. P., N.K.S. Gowda, T.M. Prabhu, P.K. Malik, N.M. Soren and G. Tirumalaisamy. 2022. Rumens fermentation pattern in lambs fed Maize ( <i>Zea mays</i> ) grain sprouts to substitute conventional green fodder and compounded feed mixture. <i>Indian Journal of Animal Nutrition</i> , 39 (4): 413-425.
19	Pujar Surappa, Narasimhamurthy, Annayappa Sahadev, Renukaradhya, Gudedpalya Jayanna, Shankarappa Bhajantri, Veena Malavalli Puttaiah, Rashmi Rajashekar, Guelal Sudha and Rasmi Srinivas. 2023. Comparative efficacy of intravaginal steroidal and non-steroidal drugs in estrus synchronization in ewes. <i>The Pharma Innovation</i> , 12(2): 1225-1229.
20	Sanjeev Gavimath, Narasimhamurthy, Annayappa Sahadev, Suchitra Bidare Raju, Kalmath Gavisiddappa, Shankarappa Bhajantri and Rashmi Rajashekar. 2023. Intravaginal non-steroidal drug, an alternative to Steroidal drug in estrus synchronization in does. <i>The Pharma Innovation</i> , 12(2): 3167-3170.
21	Raghavendra, G., Mahadevappa D. Gouri, Vivek M. Patil, Basavraj Inamdar, Umesh Mirje, Prasanna, S. B., Prabhu, T.M. and Shankarappa Bhajantri. 2022. Bio-Climatological influence in lactating dairy cows. <i>The Pharma Innovation Journal</i> , SP-11(3): 805 -809.
22	Ravishankar Bidar, Vivek M. Patil, Mahadevappa D. Gouri, Prasanna S. B., Shankarappa Bhajantri and Shivaraj, B.M. 2023. Effect of herbal teat dips on milk yield and composition in cattle with subclinical mastitis. <i>The Pharma Innovation Journal</i> , SP-11(4) : 2015 -2019.
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**VETERINARY COLLEGE, BIDAR**

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3	Deepika J., and Kiran, M. 2022, Acceptance and awareness of alternative proteins among the students of Veterinary College Bidar, IMSACON – XI, Hyderabad Dec., 14-16, 2022, 121
4	J. Adeppa*, C. Sreedevi and Krishnamurthy C. M, 2022. Seasonal prevalence of gastrointestinal parasites of goats in K-K Region of Karnataka. 31st National Congress of Veterinary Parasitology and National Symposium on “Green Management of Animal Parasites to Enhance Livestock Production, Livelihood and One Health” 6-8th December, 2022. College of Veterinary Science and Animal Husbandry, Bhubaneswar, Odisha. P.p-12
5	Krishna Murthy, C. M* Placid E D'Souza and H. Dhanalakshmi, 2022. Prevalence of tick infestations in 3 districts of Hyderabad-Karnataka, 31st National Congress of Veterinary Parasitology and National Symposium on “Green Management of Animal Parasites to Enhance Livestock Production, Livelihood and One Health” 6-8th December, 2022. College of Veterinary Science and Animal Husbandry, Bhubaneswar, Odisha. P.p-49
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8	Prashantkumar Waghe, Prakash Nadoor and M.Vijaykumar (2022). Melatonin Ameliorates Sub-Acute Arsenic-Induced Vascular Redox Signaling Wistar Rats. XXII Annual Conference of Indian Society of Veterinary Pharmacology and Toxicology and International Symposium on New Horizons in Veterinary Pharmacology and Toxicology Research: Way Forward to Augment Livestock Health and Production, 02-04 <sup>th</sup> November 2022 organised Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Namakkal - 637002, Page No. 52
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3	Bindushree Pandit. P. N; Doddamani Jahangirbasha, Dilipkumar D, Bhagavantappa B, Shalaka A Salvekar, Prashantkumar Waghe And T Rajendrakumar. 2023. Evaluation of butorphanol premedicated tiletamine zolazepam and dexmedetomidine ketaminebolus induction under isoflurane anaesthesia in cats. 45 <sup>th</sup> Annual Congress of ISVS, 2022. Nagpur. (11-13 Jan, 2023), Compendium: 38.
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9	Ravishankar Biradar, Vivek M. Patil, Mahadevappa, D. Gouri, S. B. Prasanna, G. P. Kalmath, Shankarappa Bhajantri, Shivaraj B.M (2023) Study on efficacy of herbal teat disinfectants in subclinical mastitis in dairy cattle Abstract published in Annual Convention of ISAPM ABHYUDAYA 2023, Bhubaneswar , Odisha, 18th to 20th January, 2023 pp 388.
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16	Kanakaraja, M. G., Mahadevappa, D. Gouri., Vivek M. Patil., C. Kotresh Prasad., Channappagouda Biradar, Basavarajaiah, D. M., S.B. Prasanna. and Jag Jiwan Ram .2022. Study of behavioural patterns of Kenguri sheep under extensive rearing system in its native tract. LBW-604: Abstract published in Annual Convention of ISAPM UTKARSHA 2022, Vishakapatnam, Andhra Pradesh, 11th to 13th April, 2022 pp:60
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18	Shivakumar K. Radder, R. Nagaraju, Nithin Kumar Mishra, B. Jagannatha Rao, S. Dhanalaxmi, Manjunath L and Pradip Chavan, Successful translation of principles and techniques of Veterinary and Animal Husbandry Extension from Theory and Practicals through NSS camp among B.V.Sc & A.H students, Approaches for Livestock Development- An Extension call, May 6-8, 2022, DGCN College of Veterinary & Animal Sciences, CSK HPKV, Palampur (HIP)-India. May 2022

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38	Ajay Kumar, Manjunatha SS, Jayaramu GM, Kavitha Rani B et al. 2022. Hepatic and pulmonary hydatidosis in a buffalo: a case report. Indian Veterinary Pathology Congress-2022, Hyderabad, 17 <sup>th</sup> to 20 <sup>th</sup> , Nov, 2022, PP: 211.
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**DAIRY SCIENCE COLLEGE, KALABURAGI**

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2	Puneeth T. G., Pallavi Baliga, Dheeraj S. B., Kushala K. B., Nithin M. S., Girisha S. K. and Suresh T., 2022. Assessment of infectivity and replication efficiency of red sea bream Iridovirus (RSIV) in different fish cell lines. 12 <sup>th</sup> Indian Fisheries & Aquaculture Forum, Chennai, Tamil Nadu, 5-7 May 2022, PP:359.
3	Kushala K. B., Nithin M. S., Puneeth T. G., Suresh T. and Girisha S. K., 2022. First report of infectious spleen and kidney necrosis virus (ISKNV) in orange chromide ( <i>Etroplus maculatus</i> ), Karnataka, India. 12 <sup>th</sup> Indian Fisheries & Aquaculture Forum, Chennai, Tamil Nadu, 5-7 May 2022, PP:360.
4	Nirosha, Shivakumar, Dheeraj S. B., Mahesh A. S., Nidhi D. C., Kushala K. B., Nithin M. S., Puneeth T. G., Suresh T. and Girisha S. K., 2022. Molecular confirmation of naturally co-infected <i>Lernaea</i> and <i>Argulus</i> in cultured and ornamental fishes. 12 <sup>th</sup> Indian Fisheries & Aquaculture Forum, Chennai, Tamil Nadu, 5-7 May 2022, p 363.
5	Kishan Kishorchandra Kalaria, Puneeth T. G., Kushala K. B., Nithin M. S., Girisha S. K. and Suresh T. 2022. Molecular detection of pathogens from cultured white leg shrimp farms in Karnataka. 12 <sup>th</sup> Indian Fisheries & Aquaculture Forum, Chennai, Tamil Nadu, 5-7 May 2022, p 364.
6	Kalavathi N. R, Anjanayappa H. N, Mahesh V, Vinod K, Asokan P.K, Rajan Kumar, Kumar Naik A.S, Somashekara S. R., 2022. Assessment of Ichthyofaunal Diversity of Chandragiri Estuary, Kasaragod, Kerala, India. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY, 2022, Chennai.
7	AkanshaSondhiya, Kumar Naik A.S, Girish M H, Anjanayappa H N, Girisha S. K. 2022. Alizarin Red Stain Technique for Fish Skeletal Study. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai.
8	Sahana H M, Kumar Naik A.S, Anjanayappa H N, Somashekara S.R, Shwetha B C, Darshan K S. 2022. Reproductive Biology of Whitefish, <i>Lactariuslactarius</i> (Bloch and Schneider, 1801) Off Mangaluru Coast, Karnataka. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai.
9	Shwetha B C, Kumar Naik A.S, Anjanayappa H N, Somashekara S.R, Sahana H M, Raajesh D P, Darshan K S. 2022. Studies on Biology of Razorbelly Scad, <i>Alepes Kleinii</i> (Bloch, 1793) Along the MangaluSru Coast. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai

10	Harisha Rathod, Kumar Naik A.S, Anjanayappa H N, Somashekara S.R, AkanshaSondhiya, Rajesh D P. 2022. Preservation of Fishes using Plastination Technology for Academic uses. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
11	Aishwarya C H, Somashekara S.R, Raajesh D P, Anjanayappa H N, Kumar Naik A.S. 2022. Length-Weight Relationship and Relative Condition Factor of the Crab, <i>Portunus Sanguinolentus</i> (Herbst, 1783) Off Mangaluru Coast Karnataka, India. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
12	Harshath D G, Anjanayappa H N, Raajesh D P, Somashekara S.R, Kumar Naik A.S, Bhavanjali M.R. 2022. Ichthyofaunal Biodiversity of Swarna Estuary of Udupi District in Karnataka, India. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
13	Aishwarya C H, Somashekara S.R, Raajesh D P, Anjanayappa H N, Kumar Naik A.S, ThakareRhishikesh D. 2022. Food and Feeding Habits of Crab, <i>Portunus Sanguinolentus</i> (Herbst, 1783) Off Mangaluru Coast Karnataka. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
14	ThakareRhishikesh D, Somashekara S.R, Raajesh D P, Anjanayappa H N, Kumar Naik A S, Aishwarya C. 2022. Stock Structure Analysis of <i>Moon Fish, Mene Maculata</i> (Bloach & Scheneider, 1801) by using Truss Analysis. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
15	Nayana P, Anjanayappa H N, Somashekara S.R, Kumar Naik A.S, Pramodraj P, Bhavanjali M.R. 2022. Biology and Population Dynamics of <i>Scoliodon Laticaudus</i> along Mangalore and Malpe Coasts of Karnataka. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
16	Kalavathi N. R, Anjanayappa H. N, Mahesh V, Vinod K, Kumar Naik A.S, Sheethal K.U, AsokanP. K. 2022. Assessment of the Socio-Economic Status of Fishermen Communities from Chandragiri Estuary, Kasargod, Kerala. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
17	Pratiksha KS, Mridula Rajesh, Rajesh KM, Malathi Shekar, Sanjay Kumar, Ahamed Rasheeq. 2022. Dna Barcoding of Fish Species belonging to Family Balistidae Prevalent along the Coastal Waters of Karnataka. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
18	Ahamed Rasheeq A, Mridula Rajesh, Ajith Kumar T T, Rajesh KM, Pratiksha KS, Sanjay Kumar. 2022. Stock Structure Analysis of <i>Siganus Canaliculatus</i> (Park, 1797) along Indian Coast using Truss Network Analysis. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
19	Bhavanjali M.R., Mridula Rajesh, Anjanayappa H N, Manjunath N, Sujitha Thomas, Rajesh K M, Nayana P. 2022. Trophic Interaction in Commercially Exploited Demersal Finfishes with Emphasis on Ontogenic Diet Shifts. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
20	Suyani N K, Mridula Rajesh, Mohan CO, Rajesh KM. 2022. First report on the nutritional profile of red-toothed triggerfish, <i>Odonus niger</i> (Balistidae) from Indian waters. 12th Indian Fisheries & Aquaculture Forum 5 - 7 MAY 2022, Chennai
21	Shrinivas H. Hulkoti., Dr. Somashekara S. R., Dr. Anjanayappa H. N., Sheethal K. U. 2022. A Study on Trawl Fishery and its Bycatch Along Udupi Coast of Karnataka., 12 <sup>th</sup> Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai.
22	Nayana P., Anjanayappa H. N., Somashekara S. R., Kumar Naik A. S., Pramodraj P, Bhavanjali M. R., 2022. Biology And Population Dynamics of <i>Scoliodon Laticaudus</i> Along Mangalore and Malpe Coasts of Karnataka., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai.
23	Thakare Rhishikesh D., Somashekara S. R., Raajesh D. P., Anjanayappa H. N., Kumar Naik A. S., Aishwarya C. H., 2022. Stock Structure analysis of Moon Fish, <i>Mene Maculata</i> (bloach & Scheneider, 1801) By Using Truss Analysis"., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai.

24	Aishwarya C. H., Somashekara S. R., Raajesh D. P., Anjanayappa H. N., Kumar Naik A. S., Thakare Rhishikesh D., 2022. Food and Feeding Habits of Crab, <i>Portunus sanguinolentus</i> (herbst, 1783) Off Mangaluru Coast Karnataka., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai.
25	Aishwarya C. H., Somashekara S. R., Rajesh D. P., Anjanayappa H. N., 2022. Reproductive Biology of <i>Portunus Sanguinolentus</i> (herbst, 1783) Off the Mangaluru Coast of Karnataka., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai.
26	Harshath D. G., Anjanayappa H. N., Somashekara S. R., Kumar Naik A. S., Rajesh D. P., Bhavanjali M. R., 2022, Ichthyofaunal Biodiversity of Swarna Estuary of Udupi District in Karnataka, India., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai
27	Aishwarya C. H., Somashekara S. R., Raajesh D. P., Anjanayappa H. N., Kumar Naik A. S., 2022., Length-weight Relationship and Relative Condition Factor of The Crab, <i>Portunus Sanguinolentus</i> (herbst, 1783) off Mangaluru Coast Karnataka, India., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai
28	Harisha Rathod, Kumar Naik A. S., Anjanayappa H. N., Somashekara S. R., Akansha Sondhiya., Raajesh D. P., 2022. Preservation of Fishes Using Plastination Technology for Academic Use. 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022 ,Chennai
29	Sahana H. M., Kumar Naik A. S., Anjanayappa H. N., Somashekara S. R, Shwetha B. C., Dharshan K. S., 2022. Reproductive Biology of Whitefish, <i>Lactarius lactarius</i> (bloch And Schneider, 1801) Off Mangaluru Coast, Karnataka., 12th Indian Fisheries & Aquaculture Forum 5 - 7 May, 2022, Chennai

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

1	M. Rout, G.K. Sharma, R. Hegde, L. Bhat, P. Deka, P. T. Bhutia, M.K. Gupta, R. Sridhar, O. Tapir, P. Giri, S. S. Dahiya, J. K. Mohapatra and R. P. Singh. 2022. Investigations of FMD outbreaks in pigs during 2021-22. XXXIV Annual Convention of IAVMI 27-28 May 2022, LUVAS, Hissar. PP:11.
2	Sanjeevkumar M., Shivaraj B. M., Shivashankar B. P., Raveendra Hegde, and M. D. Venkatesha. 2022. Outbreak investigation and sequence confirmation of LSD Virus infection among cattle. XXXIV Annual Convention of IAVMI 27-28 May 2022, LUVAS, Hissar. PP: 90.
3	Sanjeevkumar M., Shivaraj B. M., Shivashankar B.P , Raveendra Hegde, Nandini P., Gauthami C. N. and M. D. Venkatesha. 2022. Clinical data driven epidemiology revealed anexpeditious spread of sheep associated MCF among susceptible hosts. XXXIV Annual Convention of IAVMI 27-28 May 2022, LUVAS, Hissar. PP:126.
4	Shivaraj B. M., Sanjeev kumar M., Shivashankar B. P., Raveendra Hegde and M. D. Venkatesha. 2022. Diagnosis of enterotoxaemia infections in sheep and goats in Karnataka XXXIV Annual Convention of IAVMI 27-28 May 2022, LUVAS, Hissar. PP:127.
5	Sumathi, B. R., Sangangouda, K., Saritha, N. S., Raveendra Hegde, Amitha Reena Gomes, Chandranaik, B. M., Kavitha, G. and M. D. Venkatesha, 2022, "Study on Small Ruminants Mycoplasmosis in Karnataka and its control". PP: 181.
6	Yashas R. Kumar, B. P. Shivashankar, Sanjeev Kumar, M., Shivaraj Murag, Shankar, B. P, Raveendra Hegde and K. Sripad, 2022. A first case report of African Swine Fever (ASF) in Bangalore, Karnataka. International Veterinary Pathology Congress - 2022 on Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Production. Hyderabad.
7	Yashas R. Kumar, B. P. Shivashankar, Sanjeev Kumar, M, Shivaraj Murag, Shankar, B. P, Raveendra Hegde and K. Sripad, 2022. Classical Swine fever and African Swine fever: A comparative study. International Veterinary Pathology Congress - 2022 on Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Production. Hyderabad.

8	Yashas R. Kumar, B. P. Shivashankar, Sanjeev Kumar, M, Shivaraj Murag, Shankar, B. P, Raveendra Hegde and K. Sripad, 2022. An outbreak of Anthrax ( <i>Bacillus anthrax</i> ) in sheep and its management in Chikkaballapur district. International Veterinary Pathology Congress - 2022 on Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Production. Hyderabad.
9	Yashas R. Kumar, B. P. Shivashankar, Sanjeev Kumar, M, Shivaraj Murag, Shankar, B. P, Raveendra Hegde and K. Sripad, 2022. A case report of mycoplasmosis in sheep farm of Chikkaballapur district, Karnataka. International Veterinary Pathology Congress - 2022 on Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Production. Hyderabad.
10	Yashas R. Kumar, Sanjeev Kumar, M., Yashas D. Vodeyar, B.P. Shivashankar, Shankar, B.P. and Kranthi, N. E., 2022. A case report of malignant catarrhal fever (MCF) in Gaur/Indian bison ( <i>Bos gaurus</i> ). International Veterinary Pathology Congress - 2022 on Global Challenges in Rapid Diagnosis and Management of Animal and Poultry Diseases for Improved Health and Production. Hyderabad.
11	Nithyananda V.C., Shivaraj Murag, Chandrashekhar K.M., Shivashankar, B.P., Isloor S. and Rathnamma D., 2022. Studies on Bacterial Flora in Bovine and Bubaline Semen XXXIV- IAVMI 27-28 <sup>TH</sup> May 2022.
12	Shivaraj, B.M., Sanjeev Kumar, M., Shivashankar, B.P., Raveendra Hegde, Patil, S.S., Suresh, K.P. and Venkatesha, M.D., 2022. "Antibiotic sensitivity studies of Klebsiella isolates". XXXIV- IAVMI 27-28 <sup>TH</sup> May 2022.
<b>LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED</b>	
1	Prakashkumar Rathod, Vijaykumar N., 2022, Indigenous cattle rearing production in Bidar, IVEF 9 <sup>th</sup> National conference on scaling –up of livestock innovations for doubling the farmers income, during 4-5th Nov, 2022 at B.A.U. Ranchi, Jharkhand. PP: 247.
<b>FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA</b>	
1	NarshivuduDaggula, RamachandraNaik, M.T. Lakshmipathi, S.R. Somashekara, N. Manjappa, T. Suresh, 2022, Scope and potential of carbon sequestration by phytoplankton along the costal waters off Mangaluru, RASHI 2022, Abstracts, PP:271
2	NarshivuduDaggula, RamachandraNaik, M.T. Lakshmipathi, S.R. Somashekara, N. Manjappa, T. Suresh, 2023, Spatial and temporal studies on biological carbon pumping along the costal waters off Udupi and Mangaluru, Karnataka State, Annamalai University – RUSA 2.0, National Conference on Sequestration of carbon dioxide and mitigation of impact of climate change on marine biodiversity, Abstracts, PP:. 3

## ABSTRACT OF RESEARCH PUBLICATIONS

<i>Division</i>	<i>Journal</i>		<i>Conference/ Symposium/ Seminar/ Workshops</i>		<i>Total</i>
	<i>Int.</i>	<i>National</i>	<i>Int.</i>	<i>National</i>	
Veterinary College, Bengaluru	16	93	22	89	<b>220</b>
Veterinary College, Bidar	23	44	8	21	<b>96</b>
Veterinary College, Shivamogga	4	32	12	73	<b>121</b>
Veterinary College, Hassan	5	23	4	60	<b>92</b>
Veterinary College, Gadag	5	49	3	46	<b>103</b>
Dairy Science College, Bengaluru	27	5	-	-	<b>32</b>
Dairy Science College, Kalaburagi	2	3	-	2	<b>7</b>
College of Fisheries, Mangaluru	6	35	1	29	<b>71</b>
IAH&VB, Bengaluru	1	9	-	12	<b>22</b>
IWVR-Kudige	-	-	2	-	<b>2</b>
LRIC, Hallikhed-Bidar	-	-	1	1	<b>2</b>
LRIC, Konehalli-Tumkur	-	-	1	-	<b>1</b>
LRIC, Nagamangala-Mandya	-	-	-	-	<b>-</b>
LRIC, Dornalli-Yadgir	-	-	-	-	<b>-</b>
CRIC, Thimmapur-Bagalkot	-	-	-	-	<b>-</b>
FRIC, Hebbal-Bengaluru	4	-	-	-	<b>4</b>
FRIC, Hesarghatta-Bengaluru	1	-	-	2	<b>3</b>
FRIC, Ankola-Uttara Kannada	-	1	-	-	<b>1</b>
FRIC, Bhutnal-Vijayapura	-	-	-	-	<b>-</b>
KVK, Dakshina Kannada-Mangaluru	1	-	-	-	<b>1</b>
AHP, Konehalli-Tumkur	-	-	-	-	<b>-</b>
AHP, Kunnur-Haveri	-	-	-	-	<b>-</b>
AHP, Koravangala-Hassan	-	-	-	-	<b>-</b>
AHP, Bargi-Chamarajanagara	-	-	-	-	<b>-</b>
AHP, Dornahalli-Yadgir	-	1	-	-	<b>1</b>
<b>Total</b>	<b>95</b>	<b>295</b>	<b>54</b>	<b>335</b>	<b>779</b>



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

### VETERINARY COLLEGE, BENGALURU:

#### POPULAR ARTICLES

1. Raghavendra, S. V., Mahadevappa, D. Gouri and Basavraj Inamdar, 2022. Identification and Management of Diseases in Small Ruminant farm. *Pashubandha monthly e bulletin*, 11 (03): 4-6.
2. Swati, Mahadevappa D. Gouri and Basavraj Inamdar, 2022. Breeding Management in Sheep and Goats. *Pashubandha monthly e bulletin*, 11 (03): 6-8.
3. Lavanya, K.V., Mamatha, G.S. and Mohan, H.V. 2022. Role of beneficiary insects in the bio - control of vectors. *Pashubandha monthly e-Bulletin*, Veterinary College, Bengaluru, 11(10):1 - 4.
4. Md. Abid Hussain, Madhu, D., Shamanth, S., Niranjan Murthy, D., Leena, G. and Narayana Swamy, M. 2022. Thearepeutic management of TVT in male dog with vincristine sulphate- A case report. *Pashubandha monthly e-Bulletin*, Veterinary College, Bengaluru, 11(10): 6-9.
5. Chaitra Bai, K.T., Chinmayie, K.S., Devaraj, C.K., Neha, M.B., Rubiya, S., Shraddha, S., Sylvia, H.B., Leena, G. and Narayanswamy, M. 2022. Lumpy skin disease - An overview. *Pashubandha monthly e-Bulletin*, Veterinary College, Bengaluru, 11(12): 1-5.
6. Harshitha, G.M., Kaveri, N.E., Manikanta, A.N., Priyanka, N., Sonika, A., Spoorthi, S., Ramesh, P.T., Chetan Kumar, G.K., Chaithanya, M.A., Leena, G. and Narayana Swamy, M., 2022. Successful therapeutic management of canine lymphosarcoma – A case report. *Pashubandha monthly e-Bulletin*, Veterinary College, Bengaluru, 11(12): 6-8.
7. Anushree, N.R., Harsha Sagar, H.B., Vishnu Prabhu, R., Pavithra, B.H., Leena, G., Narayanaswamy, M. 2022. Nanocurcumin – potential therapeutic tool over native curcumin. *Pashubandha monthly e-Bulletin*, Veterinary College, Bengaluru, 12(2):3-8.
8. Sooguresh Jaka, Deepa Joy, Sachin C Gowda, Sulthan Khan, Basavaraj Hiremath, Leena Gowda and M. Narayana Swamy, 2023. Precision dairy farming – A technology era. *Pashubandha monthly e-Bulletin*, Veterinary College, Bengaluru, 12(3):15-17.
9. Sunil, C. L., Vidhyashree, G.A., Mahesh, V., Nagaraja, B.N. 2023. Vulval tumour in a mare horse. *Pashubandha*. 12(2), 9-10.
10. ಸುನಿಲ್ ಸಿ.ಎಲ್., ವಿದ್ಯಾಶ್ರೀ ಜಿ.ಎ., ಹರ್ಷಿತಾ ಜಿ., ನಾಗರಾಜ ಬಿ.ಎನ್. 2023. ಹಸುಗಳ ಮೇಲೆ ಪ್ಲಾಸ್ಟಿಕ್ ನ ದುಷ್ಪರಿಣಾಮಗಳ. *Pashubandha*. 12(1), 14-15.
11. Narayana Swamy, M. 2022. 'ಶಿಕ್ಷಣದ ಶಿಖರ ಎಲಿನ್ ಸ್ಟನ್ ಕಾಲೇಜು, ವಾರ್ತಾಭಾರತಿ, ಮೇ 14, 2022. ಪುಟ 7.
12. Narayana Swamy, M. 2022. 'ಹಸಿರು ಕ್ರಾಂತಿಯ ದೀವಟಿಗೆ' ನ್ಯಾಯಪಥ, ಮೇ 15,
13. Narayana Swamy, M. 2022. 'ಸಂಕುಲಪತಿ'ಗಳೊಬ್ಬರ ವೃತ್ತಾಂತ, ವಾರ್ತಾಭಾರತಿ, ಜುಲೈ 16, 2022. ಪುಟ 7.
14. Narayana Swamy, M. 2022. 'ಆದಿಮಾನವನ ವಂಶವಾಹಿ ವಿಜ್ಞಾನದ ಸಂಶೋಧನೆಗೆ ನೊಬೆಲ್ ಪ್ರಶಸ್ತಿ', ವಾರ್ತಾಭಾರತಿ, ಅಕ್ಟೋಬರ್ 12, 2022. ಪುಟ 7.
15. Pashubandha – e-bulletin is being published monthly and 12 issues have been brought out in the academic year 2022-23.
16. Pashuprgana – Youtube channel has been initiated as part of MVSc Scholar research project (Dec. 2021). Seven videos have been uploaded till now with a viewership of > 50000.
17. H.S. Madhusudhan, Decoding dog diet, Dogs & Pups, July-Aug, 2022. Page 28.

18. H.S. Madhusudhan, A healthy outside starts from inside-Insights into cat diet, Cats & Kittens, July-Aug, 2022, Vol 17, No 3.

### BOOKS/CHAPTERS IN BOOK

1. Mohan, H.V., S. Wilfred Ruban and R. Narendra Babu, 2022. Regulations and Standards for the Quality and Safety of Meat and Meat Products Safety and Quality in Meat industry: Innovative approaches Astral International Pvt. Ltd. ISBN:978-939-04-3503-6 (Pages 357).
2. Sejian, V., M. V. Silpa, C. Devaraj, S. Trivedi, P. Ezhil Vadhana, W. Ruban, R.U. Suganthi, A. Manimaran, V.P. Maurya, R. Bhatta, 2022. Impact of Climate Change on Animal Production and Welfare Climate Change and Livestock Production: Recent Advances and Future Perspectives. Springer Nature ISBN: 978-981-16-9835-4 (Pages: 325).
3. Dr.M.A.Kshama, Dept of Veterinary Medicine, Veterinary College, Bangalore published a chapter in a book titled "Organ Specific Parasitic Diseases of Dogs & Cats" Editor Tanmoy Rana, Publishers: Elsevier Co; Chapter 6- Parasites in the Eye (Page Nos. 141-173).
4. Sushma, B., Seema, S., Suresh, K.P., Leena, G., Sharanagouda, S.P. and Uma, B.I. 2022. Analysis of codon usage bias in Cya, Lef, and Pag Genes Exists in px01 Plasmid of *Bacillus anthracis*. "ICT Analysis and Applications", Volume 314, 1-10. ISSN 2367-3370 ISSN 2367-3389 (electronic) Lecture Notes in Networks and Systems, ISBN 978-981-16-5654-5 ISBN 978-981-16-5655-2 (eBook).

### PUBLICATIONS IN TRAINING/WORKSHOPS

<i>Dept</i>	<i>Year</i>	<i>Author/s</i>	<i>Title of the chapter</i>	<i>Title of the training</i>
VMC	2023	Dr.Shrikrishna Isloor	Brain samples collection, Packing, Transportation	WOAH Sub-Regional Training Workshop on Animal Rabies Diagnosis for South Asia'
			Principle, Methodology, Interpretation, Reporting of results of dRIT of brain impression	
		Dr.D.Rathnamma	Principle, Interpretation, Reporting of results of Lateral Flow Immunoassay of brain samples	
		Dr.Sharada	Principle, Methodology, Interpretation, Reporting of results of DFA of brain impression	

	2023	Dr.D.Rathnamma	Applications and modifications of PCR in the diagnosis of parasitic diseases’	XXIV National Training Programme (CAFT) on ‘Application of diagnostic tools for Parasitic Diseases of Veterinary and Public Health Importance’ during
		Dr. Shrikrishna Isloor	‘Advances in immunological and molecular diagnosis of parasitic diseases’	
		Dr. Sharada, R-	Conventional PCR in diagnosis of parasitic diseases’	
	March, 2023.	Dr.Shrikrishna Isloor	Brain samples collection, Packing, Transportation	Training programme on “Collection of Brain sample and laboratory diagnosis of rabies in animals” under National One Health Program for Prevention and Control of Zoonoses, NCDC
			Principle, Methodology, Interpretation, Reporting of results of dRIT of brain impression	
		Dr. Rathnamma D	Principle, Interpretation, Reporting of results of Lateral Flow Immunoassay of brain samples	
	Dr.Sharada	Principle, Methodology, Interpretation, Reporting of results of DFA of brain impression.		

#### VETERINARY COLLEGE, BIDAR:

#### PUBLICATIONS IN TRAINING/WORKSHOPS PROGRAMS

<i>Dept</i>	<i>Year</i>	<i>Author/s</i>	<i>Title of the chapter</i>	<i>Title of the training</i>
ANN	2022	Arun Kharate, Ravindra Dombbar Adeppa J and Lina Dhote	Zoonoses: Infectious diseases in Humans	Biological and chemical hazards in food and food products
VPT	2022	Prashantkumar Waghe and Vijaykumar M	Plants toxicity in animals Chapters in Training Manual	Scientific sheep rearing
		Shrikrishna Isloor.,Mallinath K.C., Rajendra Talwar., Mr. Dilip L.,	Hands on experience on occipital foramen approach for brain sampling, packing and shipping	Training program on “Collection of Brain sample & Laboratory Diagnosis of Rabies in Animal” for VO’s of Kalaburagi Division
		Shrikrishna	Lateral flow assay	

VMC	Isloor.,Mallinath K.C., Rajendra Talwar.,,Sandip.Halmandgi	(LFA)	under Continued Veterinary Education Programme-2022 Organized by KVC, KVAFSU Bidar, KVAFSU-CVA RDL & WOAH Reference Lab. for Rabies, VCH and Dept.of AH&VS GOK and Veterinary College, Bidar
	Shrikrishna Isloor, Basavaraj Awati Mallinath K.C., Dilip L.	Demonstration of brain sample processing and direct fluorescent antibody (DFA), direct rapid immuno histochemistry (dRIT)	

### CHAPTERS IN TRAINING MANUALS

Sl. No.	Year	Author/s	Title of the chapter	Title of the training
1	2022	Ravindra Dombar Ramachandra, B and Rakesh Chouraddi	ವೈಜ್ಞಾನಿಕ ಆಹಾರ ಪದ್ಧತಿಯಿಂದ ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಹಾಲಿನ ಉತ್ಪಾದನೆ	Scientific feeding of dairy animals

### VETERINARY COLLEGE, SHIVAMOGGA :

Sl. No.	Type of Publication	Authors	Title	Journal Name, Vol, P No	Month and year of publication
1	Abstract	Vidya C., <b>Ravi Raidurg</b> and Teja Rani V	Clinical and diagnostic evaluation of renal carcinoma in a thirteen year old Golden Retriever – A Case report	TANUVAS - 12 th Clinical case conference on farm and companion animal practice for veterinary students. Madras Veterinary College, Chennai	10 & 11 Aug 2022
2	Abstract	Ranjitha Siddappa Rajur., <b>Ravi Raidurg</b> and <b>Chandrashekharappa M</b>	Surgical management of melanoma in a beagle		
3	Abstract	Mohd Naeem Afzal K., <b>Ravi Raidurg</b> and <b>Chandrashekharappa M</b>	Open reduction and internal fixation of left limb Colle's fracture in a eight month old Golden Retriever dog		
4	Abstract	Pilla Thulasi., <b>Ravi Raidurg</b> and Teja Rani V	Open reduction and internal fixation of proximal third transverse fracture of right femur in a dobermann dog		
5	Abstract	Sachin K P., <b>Ravi Raidurg</b> and Teja Rani V	Successful management of open contaminated wound due to cobra bite envenomation in a dog		
6	Abstract	Shreekrupa K R., <b>Ravi Raidurg</b> and <b>Chandrashekharappa M</b>	Surgical management of mixed mammary tumour of right inguinal mammary gland in a dobermann dog		

7	Abstract	Virupakshappa G Kotagi., <b>Ravi Raidurg</b> and <b>Chandrashekharappa M</b>	Successful management of a six day old colic in a kathiawari mare		
8	Abstract	<b>Ravi Raidurg</b> .,Sujay C S., Nikitha Nishit Salian., <b>Naveen M and Chandrashekharappa M</b>	Plate rod osteosynthesis of left tibial transverse diaphyseal fracture using 12 hole 3.5 mm LCP in a 28 kg Indian Grey Wolf ( <i>Canis lupus pallipes Skyes</i> ) ”	45 <sup>th</sup> Annual Convention of Indian Society for Veterinary Surgery (ISVS 2022) at Nagpur Veterinary College	11 – 13 Jan 2023
9	Abstract	<b>Ravi Raidurg</b> ., Sujay CS and Nikitha Nishit Salian., <b>Naveen M and Chandrashekharappa M</b>	Open reduction and internal fixation (ORIF) of right humeral diaphyseal fracture in a 1.2 kg Rusty Spotted Cat ( <i>Prionailurus rubiginosus</i> ) – by a cranio lateral approach		
10	Abstract	<b>Ravi Raidurg</b> ., Sujay CS., Nikitha Nishit Salian., <b>Chandrashekharappa M and Naveen M.</b>	Open reduction and internal fixation (ORIF) of left tibial diaphyseal fracture in a 3.5 kg Indian Peacock ( <i>Pavo cristatus</i> ) by plate rod technique		
11	Abstract	Tokappa K G., Dilip Kumar D, Bhagavantappa B, Shrikant Kulkarni, Vinay P Tikare, <b>Ravi Raidurg</b> and Swaroop GL	Comparative evaluation of tramadol pre-emptive analgesia for romifidine-propofol and xylazine-propofol induction with isoflurane maintenance for various surgeries in dogs		11 – 13 Jan 2023



1	-	Umesh B U, Shambhulingappa.B.E. Bharatbhushan..M and Satheesha G M , (2022). Clean milkproduction. Publisher: Dean, VC, Shivamogga.
2	-	<b>Dr.Umesh.B.U</b> , Dr Manju.G.U,Dr.Harish M and Dr.Venkatesha.M.M.,(2022) Fodder Enrichment,Preservation and conservation. Publisher: Dean, VC, Shivamogga
3	-	<b>Dr.Umesh.B.U</b> , Dr.Ravindra B G,Dr.NB Sridhar and Dr.Malatesh D S. (2022). Calf Management Publisher: Dean, VC, Shivamogga
4	Book	“ಮೇವಿನ ಬೆಳೆಗಳು” Dr. R. Jayashree, Dr Venkatesh, M.M, Dr Harish, Under RKVY (GMSMG) project Published in 2022-23
5	Chapters in books	Poultry breeds and their classification in ICAR sponsored Training manual on Scientific Poultry rearing, 14th & 15.09.2022, P. No. 4 to 12
6	Chapters in books	Sheep and Goat breeds and their Breeding practices, ICAR sponsored Training manual on Scientific Sheep and Goat rearing 21 & 22.09.2022 P. No. 3 to 12
7	Folders	“ಮಲೆನಾಡು ಗಿಡ್ಡ ತಳಿಯ ಜಾನುವಾರುಗಳ ಬಳಕೆಗಾಗಿ ಮೇವಿನ ಸಂರಕ್ಷಣೆಯ ವಿಧಾನಗಳು”, ಡಾ.ಆರ್, ಜಯಶ್ರೀ ಡಾ ವೆಂಕಟೇಶ್.ಎಮ್.ಎಮ್, ಡಾ.ಸತೀಶ್.ಜಿ. ಎಮ್, ಡಾ. ಭರತ್ ಭೂಷಣ್.ಎಮ್ ಡಾ.ಮಂಜು.ಜಿ.ಯು, MGRIC, 2022
8	Folder	“ಮಲೆನಾಡು ಗಿಡ್ಡ ತಳಿಯ ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ಮೇವಿನ ಬೆಳೆಗಳ ಪ್ರಾಮುಖ್ಯತೆ”, ಡಾ.ಆರ್, ಜಯಶ್ರೀ,ಡಾ ವೆಂಕಟೇಶ್.ಎಮ್.ಎಮ್, ಡಾ.ಸತೀಶ್.ಜಿ. ಎಮ್, ಡಾ. ಭರತ್ ಭೂಷಣ್.ಎಮ್, MGRIC, 2022
9	Folder	“ದ್ವಿದಳ ಮೇವಿನ ಬೆಳೆಗಳು”, ಡಾ.ಆರ್, ಜಯಶ್ರೀ,ಡಾ ವೆಂಕಟೇಶ್.ಎಮ್.ಎಮ್, ಡಾ.ಹರೀಶ್.ಎಮ್, RKVY (GMSMG) PROJECT, 2022-23
10	Folder	“ಮೇವಿನ ಮರಗಳ ಉಪಯೋಗಗಳು”, ಡಾ.ಆರ್. ಜಯಶ್ರೀ, ಡಾ,ವೆಂಕಟೇಶ್.ಎಮ್.ಎಮ್ ಡಾ.ಹರೀಶ್.ಎಮ್, RKVY (GMSMG) PROJECT, 2022-23
11	Folder	“ಮಲೆನಾಡು ಗಿಡ್ಡ ತಳಿ ಹೊಂದಿರುವ ಸಣ್ಣ ಹಿಡುವಳಿದಾರರಿಗೆ ಹುಲ್ಲು ಗಾವಲು ನಿರ್ವಹಣೆ ಯೋಜನೆ”, ಡಾ.ಆರ್, ಜಯಶ್ರೀ,ಡಾ ವೆಂಕಟೇಶ್.ಎಮ್.ಎಮ್,ಡಾ.ಹರೀಶ್.ಎಮ್ RKVY (GMSMG) PROJECT, 2022-23
12	Chapter in Book	<b>Malathi V.</b> 2022. Advances in mitigating Multi-mycotoxins in poultry-A global perspective. Chapter 42 In Book: “ <b>Recent trends in sustainable poultry production</b> ”, Editors A K Srivatsava, P K Shukla, Amitav Bhattacharyya and M, K Singh; Satish Serial Publishing House, Delhi. Pg: 421-428
13	Chapter in training manuals	<b>Veeranna Gowda B G</b> , ಕುರಿ ಮತ್ತು ಮೇಕೆಯ ವಸತಿ ವಿಧಾನಗಳು. Training program on ಕುರಿ ಮತ್ತು ಮೇಕೆ ಸಾಕಾಣಿಕೆ organized by Rural Self employment training institute, Holaluru
14	Chapter in training manuals	<b>Veeranna Gowda B</b> ಉ ಮಾಂಸದ ಕೋಳಿಗಳ ಸಾಕಾಣಿಕೆ Training program on ವೈಜ್ಞಾನಿಕ ಕೋಳಿ ಸಾಕಾಣಿಕೆ organized by Rural Self employment training institute, Holaluru
15		Dr. Rashi U, Dr.Madhavaprasad C.B and Dr. Prashanth S. Bagalkote Diagnostic approaches for leptospirosis Workshop on “Current Trends in Practical and Therapeutic Approach of Large Ruminant Disorders”by ODRC, VCS, Shivamogga on 26 <sup>th</sup> &27 <sup>th</sup> Pg No, 58 to 68, May 2022. 2022
16	<b>Workshop</b>	Dr. Rashi U, Dr. Madhavaprasad C.B and Dr. Prashanth S. Bagalkote An Update on Epidemiology, Prevalence and Control of Leptospirosis in India Workshop on “Current Trends in Practical and Therapeutic Approach of Large Ruminant Disorders”by ODRC, VCS, Shivamogga from on 26 <sup>th</sup> & Pg No, 33 to 43, 27 <sup>th</sup> May 2022

17		Dr. Rashi U, Dr.Madhavaprasad C.B and Dr. Prashanth S. Bagalkote An overview on epidemiology, prevention and control of zoonotic brucellosis Workshop on “Therapeutic Approach of Large Ruminant Disorders and Recent Trends” by ODRC, VCS, Shivamogga from on 24th& 25th June 2022 Pp 118-125 2022
18		Dr. Rashi U, Dr.Madhavaprasad C.B and Dr. Prashanth S. Bagalkote Laboratory methods in diagnostic methods for brucellosis Workshop on “Therapeutic Approach of Large Ruminant Disorders and Recent Trends” by ODRC, VCS, Shivamogga from on 24th& 25th June 2022 pp 126-133 2022
19		Dr. Rashi U, Dr.Madhavaprasad C.B and Dr. Prashanth S. Bagalkote Laboratory methods & Diagnostic approaches for leptospirosis. Workshop on “Therapeutic Approach of Large Ruminant Disorders and Recent Trends” by ODRC, VCS, Shivamogga from on 24 <sup>th</sup> & 25 <sup>th</sup> June 2022 pp 59-69
20		Dr. Rashi U, Dr.Madhavaprasad C.B and Dr. Prashanth S. Bagalkote An update on Prevalence and Control of Leptospirosis Workshop on “Therapeutic Approach of Large Ruminant Disorders and Recent Trends” by ODRC, VCS, Shivamogga on 24 <sup>th</sup> & 25 <sup>th</sup> June 2022, Pg No: 34-44.
21		Dr. Rashi U and Dr.Madhavaprasad C. Introduction to Japanese Encephalitis: Methods for Diagnosis, Control and Prevention of the Disease Workshop on “Novel Approach for Diagnostic & Therapeutic aspects of ruminant disorders” by ODRC, VCS, Shivamogga from 28.07.2022 to 29.07.2022, Pg.No:24-27. 2022
22		Dr. Rashi U & Dr. Madhavaprasad C.B & Dr. Prashanth S. Bagalkote Current Scenario and diagnostic approaches for control of rota viral diseases in livestock. Workshop on ODRC Training of “Practical approach for diagnostic and therapeutic aspects of ruminant disorders and obscure diseases” by ODRC, VCS, Shivamogga from 23.09.2022-24.09.2022, Pg.No:18-20 2022
23		Dr. Rashi U & Dr. Madhavaprasad C.B & Dr. Prashanth S. Bagalkote Updates on Rota Virus Epidemiology and Dagnosis in Livestock Workshop on “Therapeutic and Practical Approaches for Combating Emerging Disorders of Large Ruminants” by ODRC, VCS, Shivamogga from 12.01.2023 to 13.01.2023, Pg.No:18-20. 2023
24		Dr. Prashanth S. Bagalkote Dr. Madhavaprasad C.B, and Dr. Mrinmoyee Sarma Zoonotic Importance of Rotavirus and leptospirosis Workshop on “Integrated Therapeutic and Practical Approaches to Combat the Plethora of Obscure Diseases in Large Ruminants” by ODRC, VCS, Shivamogga from 23.02.2023 to 24.02.2023, Pg.No:8-15 2023
25		Dr. Prashanth S. Bagalkote and Dr.Madhavaprasad, C.B Good hygienic practices to be followed in the sheep and goat meat supply chain to produce quality meat Workshop on “Entrepreneurial opportunities in Sheep and Goat Farming” by ILFC and navik agribusiness incubation centre, NIVEDI,Bengaluru from 06.03.2023 to 07.03.2023, Pg.No:27-32 2023
26	Folders	Dr.Madhavaprasad C.B, and Dr. Prashanth S Bagalakote Chlorination of Community and Animal Farm Drinking Water Sources Dean, Veterinary College Shivamogga
27		Dr.Madhavaprasad C.B, and Dr. Prashanth S Bagalakote Importance of Biosecurity in Scientific Poultry Farming Dean, Veterinary College Shivamogga 2022

28	Book published	Dr. Pradeep B.S., 2022, “Studies on the efficacy of some commonly used acaricides against a common Cattle and Dog tick species”, LAMBERT Academic Publishing ISBN: 978-620-5-51583-9
<b>POPULAR ARTICLES PUBLISHED</b>		
29		<b>Ananda K.J</b> and <b>Pradeep B.S.</b> , 2022, “An update on diagnosis, treatment and control of common parasitic diseases of domestic ruminants”, Workshop on “Practical Approach For Diagnostic and Therapeutic aspects of Ruminant Disorders and Obscure Diseases” organized by Obscure Disease Research Center, Veterinary College, Shivamogga Held during 23 <sup>rd</sup> and 24 <sup>th</sup> of September, 2022 at Veterinary College, Shivamogga.
30		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Diagnosis of common parasitic infections in domestic ruminants by conventional parasitological techniques”, Workshop on “Practical Approach For Diagnostic and Therapeutic aspects of Ruminant Disorders and Obscure Diseases” organized by Obscure Disease Research Center, Veterinary College, Shivamogga Held during 23 <sup>rd</sup> and 24 <sup>th</sup> of September, 2022 at Veterinary College, Shivamogga.
31		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Diagnosis of common parasites of Livestock”, Workshop on “Novel Approach for Diagnostic and therapeutic Aspects of Ruminant Disorders” organized by Obscure Disease Research Center, Veterinary College, Shivamogga Held during 28 <sup>th</sup> and 29 <sup>th</sup> of July, 2022 at Veterinary College, Shivamogga
32		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Ticks and Tick borne diseases of Livestock”, Workshop on “Novel Approach for Diagnostic and therapeutic Aspects of Ruminant Disorders” organized by Obscure Disease Research Center, Veterinary College, Shivamogga Held during 28 <sup>th</sup> and 29 <sup>th</sup> of July, 2022 at Veterinary College, Shivamogga
33		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Parasitological techniques for detection of common parasitic infections in livestock”, Workshop on “Therapeutic approach of large ruminant disorders and recent trends” organized by Obscure Disease Research Center, Veterinary College, Shivamogga Held during 24 <sup>th</sup> and 25 <sup>th</sup> of June, 2022 at Veterinary College, Shivamogga
34		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Common parasitic diseases of domestic animals in Karnataka: their diagnosis and control”, Workshop on “Therapeutic approach of large ruminant disorders and recent trends” organized by Obscure Disease Research Center, Veterinary College, Shivamogga Held during 24 <sup>th</sup> and 25 <sup>th</sup> of June, 2022 at Veterinary College, Shivamogga
35		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Parasitological techniques for detection of common parasitic infection in livestock”, Workshop on “Current trends in practical and therapeutic approach of large ruminant disorders” organized by Obscure disease Research Center, Veterinary College, Shivamogga Held during 26 <sup>th</sup> and 27 <sup>th</sup> of May, 2022 at Veterinary College, Shivamogga
36		<b>Ananda K.J.</b> and <b>Pradeep B.S.</b> , 2022, “Tick borne haemoprotozoan diseases of domestic animals their diagnosis, treatment and control”, Workshop on “Current trends in practical and therapeutic approach of large ruminant disorders” organized by Obscure disease Research Center, Veterinary College, Shivamogga Held during 26 <sup>th</sup> and 27 <sup>th</sup> of May, 2022 at Veterinary College, Shivamogga

37	<b>Pradeep, B.S, R Venu &amp; Ananda K.J.</b> 2022, “Diagnosis of Cryptosporidiosis in ruminants”, CAFT Training Programme on “Application of diagnostic tools for Parasitic Diseases of Veterinary and Public Health Importance” Held during 05 <sup>th</sup> to 25 <sup>th</sup> Jan, 2023, CAFT, Dept of VPA, Veterinary College, Bangalore
38	Manju.G.U., Giridhar.K.S. and Nagabhushana.V. Factors affecting milk quality in dairy cattle and nutritional approaches to enhance the milk components Current trends in practical and therapeutic approach of large animal disorders Veterinary officers training Programme ODRC, Veterinary college Shivamogga 2022
39	Manju.G.U Giridhar.K.S., and Nagabhushana.V. Nutritional aspects of clean milk production in dairy cattle Practical approach for diagnostic and therapeutic aspects of ruminant disorders and obscure diseases 2022
40	Manju.G.U Giridhar.K.S., and Nagabhushana.V. ಕುರಿ ಮತ್ತು ಮೇಕೆಗಳ ಸಮಶೋಲನ ಆಹಾರ ತಯಾರಿಕ ಕ್ರಮಗಳು ಆಧುನಿಕ ಕುರಿ ಮತ್ತು ಮೇಕೆ ಸಾಕಾಣಿಕೆ- ತರಬೇತಿ ಕೈಪಿಡಿ Under ICAR sponsored TSP programme 2022
41	Dr. R. Jayashree, Dr. Venkatesh, M.M., Dr. Sathish, G.M. and Dr. Manju, G.U. ಮಲೆನಾಡುಗಿಡ್ಡ ತಳಿಯ ಜಾನುವಾರುಗಳ ಬಳಕೆಗಾಗಿ ಮೇವಿನ ಸಂರಕ್ಷಣೆಯ ವಿಧಾನಗಳು Folder Malenadugidda breed research and information center Veterinary College, Shivamogga 2022
42	Dr. R. Jayashree, Dr. Venkatesh, M.M., Dr. Sathish, G.M. and Dr. Manju, G.U. ಮಲೆನಾಡುಗಿಡ್ಡ ತಳಿಯ ಸಂರಕ್ಷಣೆಯಲ್ಲಿ ಮೇವಿನ ಬೆಳೆಗಳ ಪ್ರಾಮುಖ್ಯತೆ Folder Malenadugidda breed research and information center Veterinary College, Shivamogga 2022
43	Dr. Giridhar, K.S., Dr. Manju, G.U. and Dr. Nagbhushana, V. ಮೇಲುಕು ಪ್ರಾಣಿಗಳಲ್ಲಿ ಮೇವಿನ ಮರಗಳ ಪ್ರಾಮುಖ್ಯತೆ Folder Dean, Veterinary College, Shivamogga
56	Various articles of Dr.N.B.Shridhar were published in popular dailies of Karnataka each week in :Vijayavani, Prajavani, Vijaya Karnataka, etc
57	<b>Book:</b> Sunilchandra U and N.B Shridhar.2022. Pharmacokinetic study and residual analysis of ciprofloxacin in dual purpose chicken . Lambert academic publishing ISBN No: 978-620-4-74655-5
	<b>Leaflets: ( Kannada)</b>
58	Dr Jayahsree, Dr RudreshBH, Dr Satheesha GM and Dr Shridhar NB <i>Malenadu Gidda</i>
59	Dr Shridhar NB and Dr Sunilchandra.U <i>Pashugalalli kalaleya Vishabhaade</i>
60	Dr Shridhar NB and Dr Sunilchandra.U <i>Jaanuvaragalalli Mullillada nachike gidada vIshabhade</i>
61	Dr Shridhar NB and Dr Sunilchandra.U <i>Pashu roga chikitseyalli Aushadhi Sasyagala upayoga</i>
62	Dr Shridhar NB and Dr Sunilchandra.U <i>Jaanuvaragalalli vayuvilanga gidavemba visha</i>
	<b>RESEARCH ABSTRACTS OF PAPER PRESENTED IN CONFERENCE/ SEMINARS:</b>
63	S.C. Jagadeesh, N.B. Shridhar, U. Sunilchandra, S.S. Manjunatha, C. Ravikumar, B.S Pradeep, A. Borthakur, D.Niranjan, Vinuta Hittalamani and B.R Mohan Studies on Toxicity of Fungal Contaminated Brewer's Spent Grain in Wistar Rats Compendium of 22 <sup>nd</sup> Conference of Indian Society of Veterinary Pharmacology and Toxicology, Held at VCRI,Namakkal,2-4Nov 2022; compendium-. pp:54 2022

64		S. Niranjana, N.B. Shridhar,U. Sunilchandra, G.M. Jayaramu, K. Nagaraja, Santhosh, A. Sajjan, G.and Chandrashekar Safety Assessment of Fungal Infested Ragi Straw in Wistar Rats Compendium of 22 <sup>nd</sup> Conference of Indian Society of Veterinary Pharmacology and Toxicology, VCRI,Namakkal 2-4 Nov.2022; compendium-. pp:55 2022
65		Aruru Keerthana, Sunilchandra.U.,N.B.Shridhar.,Vijaykumar.M.,B,Kavitha Rani, P.Sheela., Vinuta Hittalamani and D.Niranjana Pharmacokinetic evaluation and safety assessment of meloxicam with or without co-administration of andrographolide or bromelain in Wistar rats Compendium of 22 <sup>nd</sup> Conference of Indian Society of Veterinary Pharmacology and Toxicology, Held at VCRI,Namakkal,2-4Nov 2022; compendium-. pp:143 2022
66		G.D.Basavaraja, N.B. Shridhar, U. Sunilchandra, Ravikumar.C.,. Manjunatha, S.S C. Ravikumar, Vinay.P.Tikare,Prashant S Bagalokte, D.Niranjana, and B.R Mohan Evaluation of pharmacological and toxicological properties of <i>Trianthema portulacastrum</i> in Wistar rats Compendium of 22 <sup>nd</sup> Conference of Indian Society of Veterinary Pharmacology and Toxicology, VCRI,Namakkal 2-4 Nov.2022; compendium-. pp:176
67		D. Niranjana, N.B. Sridhar, U.Sunilchandra, S.S.Manjunatha., M.H.Vinuta, and B.R. Mohan. Recent perspectives in use of growth promoters in livestock --- do--- pp224 2022
68		<b>Dhoolappa M, Lakshmishree K.T</b> and Sunilchandra U, 2023, Zebrafish embryo: a novel vertebrate model for preclinical studies of bioscaffolds, <i>VeterinaryToday International</i> ; Pg: 18-22
69	<b>Dept. of VAE</b>	Training manual on Scientific Poultry Farming
		Training manual on Scientific Poultry Farming
		Training manual on Fodder Crops



## TRAINING MANUALS AND POPULAR ARTICLES

Sl No.	Title of training manual/Workshop compendium	Date	Organized by and Workshop/Training Participants
1	Integrated therapeutic and practical approaches to combat the plethora of obscure diseases in large ruminants	23-2-23 to 24-2-2023	Obscure disease research centre (ODRC), veterinary college, Shivamogga (VCS) Officers of department of animal husbandry and veterinary services, govt. Of Karnataka
2	Therapeutic and practical approaches for combating emerging disorders of large ruminants	12-1-23 to 13-1-2023	ODRC and VCS; Officers of department of animal husbandry and veterinary services, govt. Of Karnataka
3	Current trends in practical and therapeutic approach of large ruminant disorders	26-5-22 to 27-5-2022	ODRC and VCS; Officers of department of animal husbandry and veterinary services, govt. Of Karnataka
4	Novel approach for diagnostic and Therapeutic aspects of ruminant disorders	28-7-22 to 29-7-2022	ODRC and VCS; Officers of department of animal husbandry and veterinary services, govt. Of Karnataka
5	Therapeutic approach of large ruminants disorders and recent trends	24-6-22 to 25-6-2022	ODRC and VCS; Officers of department of animal husbandry and veterinary services, govt. Of Karnataka
6	Practical approach for diagnostic and therapeutic aspects of ruminant disorders and obscure diseases	23-9-22 to 24-9-2022	ODRC and VCS; Officers of department of animal husbandry and veterinary services, govt. Of Karnataka

### VETERINARY COLLEGE, HASSAN

#### SHORT FILM:

- Hassan Veterinary College team of staff and students made a 30 minutes short film on "ASHAKIRANA – Empowerment of Women folk through Animal Husbandry, TRAILER <https://youtu.be/Z8Dczu5Famw>, Full Video, [https://youtu.be/svtzMs\\_MDfU](https://youtu.be/svtzMs_MDfU), 2023.

#### BOOK PUBLISHED:

- Gangadhar K S, Satyanarayan K, Veeranna K C, Jagadeeswary V and Shilpa shree J, Textbook on "Livestock Economics Marketing Entrepreneurship Business Management & Accountancy", NIPA Publications, New Delhi, 2022.
- Girish B.C. Pashuvaidyamrutha- book, ISBN: 978-93-95408-00-4, Keladi Shivappa nayaka Agri. and Horticultural university, Shivamogga. 2022. 152 pages.
- Jagadeeswary V and Sindhu M. G. 2022, "Mooka Raaga" – A Compilation of Livestock Skits, Extension Education Centre, HVC, July, 2022.

## TRAINING MANUALS RELEASED:

1. Girish Kumar V, Sagar S Deshmukh , V. Jagadeeswary, Naveen Kumar G S and Hemanth Gowda K, 2022, Innovations in Dairy Management, MANAGE in Collaboration with Extension Education Centre, Veterinary College, Hassan, KVAFSU, e – manual, June, 2022 (ISBN - 978-93-91668-05-1)
2. Naveen Kumar G S, Satheesh S P, Hemanth Gowda K and Jagadeeswary V, 2022, Climate Change and Animal Husbandry, NAFCC Project in Collaboration with Department of Animal Genetics & Breeding, Veterinary College, Hassan, August, 2022.
3. Jagadeeswary V, Naveen Kumar G S, Chethan K P and Suresh H N, 2022, “Scientific Pig Rearing”, Extension Education Centre, Veterinary College, Hassan, November, 2022.
4. Jagadeeswary V, Jaishankar N, Naveen Kumar G S, Chethan K P, Suresh H N and Sai Anjana N, 2022, “Scientific Poultry Rearing”, Extension Education Centre, Veterinary College, Hassan, November, 2022.
5. Hemanth Gowda K, K. P. Chethan, R.Senthil Kumar, V.Shankar, R.Venkat Kumar and Jagadeeswary V, 2023, Animal Based Organic Horticulture, IIHR & Hassan Veterinary College, March 2023.
7. Ravikumar C, Basics Biostatistics in Animal Research for the students conducted on 10.02.2023 under ICAR SCSP-TSP programme organised by Department of Pharmacology and Toxicology, Veterinary College, Hassan, 2023.
8. Ravikumar C, Laboratory Animal Research in accordance with Ethical guideline on 23.02.2023, under ICAR SCSP-TSP programme organised by Department of Pharmacology and Toxicology under ICAR SCSP-TSP grant, Veterinary College, Hassan, 2023.
9. Ravikumar C, Scientific Poultry Rearing and Value addition, conducted from 20.02.2023, to 26.02.2023, under ICAR SCSP-TSP programme organised by Department of Pharmacology and Toxicology, Veterinary College, Hassan.
10. Shivakumar V, Chetan Kumar G K, Ashwini A, Nethra R, Bhagya B, Jaanuvarugalalli banjethana nirvahanege uttama aahaa Hainu raasugalalli banjetanakke kaaranagalu haagu avugala nirvahane 23<sup>rd</sup> February 2023, ICAR, SCSP-TSP, Veterinary College, Hassan.
11. Chetan Kumar G K, Shivakumar V, Ashwini A, Poultry Diseases and its management. Scientific Poultry Rearing and Value addition, 20<sup>th</sup> to 26<sup>th</sup> February 2023, ICAR, SCSP-TSP, Veterinary College, Hassan
12. Chetan Kumar GK, Shivakumar V, Nethra R, Dr Ashwini. A, Small Animal Abdominal
13. Ultrasonography: An Introduction, Two days workshop on Basics of Ultrasound Imaging, 29<sup>th</sup> & 30<sup>th</sup> Sept.2022, Veterinary College, Hassan, Department of AH &VS and IMV imaging LTD.
14. Jai Shankar N, Manjunath L, Guru prasad R, Shiva kumar M C, Improved Poultry Farming, Department of Animal Nutrition, ICAR TSP grant.
15. Jai Shankar N, Guru prasad R, Shiva kumar M C and Chetan K P, profitable sheep farming, Department of Animal Nutrition, ICAR TSP grant.

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3. Hemanth Gowda K, Jagadeeswary V and Naveen Kumar G S, 2022, Organic Dairying, In the training manual, Climate Change and Animal Husbandry, NAFCC Project in Collaboration with Department of Animal Genetics & Breeding, Veterinary College, Hassan, August, 2022.
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  10. Sheela. P - “ Therapeutic and practical approaches for combating emerging disorders of large ruminants” Clinical Sample Collection, Preservation and transportation for diagnosis for disease of microbial etiologies, Work shop for veterinarians of AH&VS organized by ODRC on 12-01-2023& 13-01-2023.
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2. Satyanarayan K, Jagadeeswary V and Pavan Bellakeri, Fodder App, In “NegilaAnnodaya” weekly vol 01-27 (5.02.2023)
3. Sai Anjana N, M. Lavanya, V. Jagadeeswary, Problem Tree Analysis – A Mind Map, Pashubandha e Bulletin, 2023, Volume No: 12 Issue: 03.
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9. Ravikumar P, Harmful effects of Foot and mouth disease: November 2022, “NegilaAnnodaya” weekly vol 01-18

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29. Jaishankar, N., and Chethan K. P., 28.08.22, Fodder supplementation for Bullocks, Sheep and Goat, Annodaya, Volume No. 1, issue 09, pp 05
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5. Januvarugalli kandu hakuva roga (BRUCellosis), a folder of one day awareness programme at Jagaravalli village Hassan district. Organized by Dept. Of VGO and other clinical departments, Dr Ravikumar,B.P, Dr A J.Shankare Gowda,Dr Shivkumar v, Dr Chetankumar G K ,Dr B R Balappanavar , Dr manjunath D R. Sponsored by: ICAR/KVAFSU/SCSP/TSP Unit Veterinary college Hassan.
6. Januvarugalalli Prathama Chikithse, a folder of one day awareness programme at Jagaravalli village Hassan district. Organized by Dept. Of VGO and other clinical departments, Dr Ravikumar,B.P, Dr A J.Shankare Gowda,Dr Shivkumar v ,Dr Chetankumar G K ,Dr B R Balappanavar , Dr manjunath D R. Sponsored by: ICAR/KVAFSU/SCSP/TSP Unit Veterinary College, Hassan.
7. Ravikumar, B P, Shivakumar, V, Manju natha D R, Shanke Gowda, AJ, Chetan Kumar GK, B R Balappanavar, Jaanuvaarugalalli Kandu haakuva rooga (Brucellosis) & Charma gantu rooga (LSD) Awareness programme for farmers on diseases of animals and First aid, ICAR, SCSP-TSP, Veterinary College, Hassan.

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2. Santosh Sajjan, 2022. Zoonotic pathogens transmitted to humans by consumption of raw milk. Krushi Munnade-35(09): 25-27.
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4. M.S. Rudraswamy and Srikanth Kalburgi, Besige/baragaladalli januvarugala ahara nirvahane. Pashu bandha e-magazine, vol 11, issue 1, pp, 31 January 2022
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2. Training Manual of Livestock Entrepreneurship Development Programme for Youth Dec, 2022.

## C. BOOK CHAPTERS:

1. Veeregowda B. M., Amitha Reena Gomes, G. Leena and Renukaradhya Gourapura PORCINE CIRCOVIRUS *in*: Pig Diseases and Management (2021): 187-196 Editors: S.S. Patil, K.P. Suresh and Parimal Roy Today & Tomorrow's Printers and Publishers, New Delhi-110002 (India). Pp 187-196.
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1	Sowmya sangam, Vibhor singh and Ramachandra.B	2022	Bovine Mastitis: An Overview Of Detection Methods	Int. Res J.of Modernization In Eng Technol and Sci,	Vol 3 Issue 4
2	Anushree.Y.K, Ramachandra,B and Manjunatha.H	2022	Antibiotic resistant bacteria – Resistant mechanism	Int. Res J.of Modernization In Eng Technol and Sci,	Vol.4(9)

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1	Chandranaik, B. M. and Amitha Reena Gomes. 2022. Good manufacturing practices (GMP) for biological production laboratories, training manual on Hands on Training Programme on "Vaccine Production as per cGMP Norms" organized at IAH&VB, from 10 <sup>th</sup> to 20 <sup>th</sup> May, 2022. Page no. 24-34
2	Amitha R. Gomes, Chandranaik, B. M. and Ranganatha, S. 2022. Maintenance and Characterization of Seed lot system in Vaccine Production. Training manual of "Hands on Training Programme on Vaccine Production as per cGMP Norms" organized at IAH&VB, from 10 <sup>th</sup> to 20 <sup>th</sup> May, 2022. Page no. 89-97.
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4	Amitha Reena Gomes, Chandranaik, B. M. and Ranganatha, S. 2022. Production of live attenuated vaccines. Practical manual of training on hands on training programme on "Vaccine Production as per cGMP Norms" organized at IAH&VB, from 10th to 20th May, 2022. Page no.28-30.
5	Chandranaik, B. M. and Amitha Reena Gomes. 2022. Preparation of chick embryo fibroblast primary culture. Practical manual of Training on Hands on Training Programme on "Vaccine Production as per cGMP Norms" organized at IAH&VB, from 10th to 20th May, 2022. Page no.31-33.
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9	B. M. Chandranaik. and R. Apsana, 2023. Primary Chick embryo Fibroblast cells. Training manual on Rabies and KFD vaccine production; training organised by SRDDL, IAH&VB, 16-23 <sup>rd</sup> Feb 2023. Page no. 1-3.
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11	B. M. Chandranaik, and R. Apsana. 2023. Manufacture of Rabies vaccine: Flow chart. Training manual on Rabies and KFD vaccine production. Training organised by SRDDL, IAH&VB. 16-23 <sup>rd</sup> Feb 2023. page 6-7.

12	B. M. Chandranaik, R. Apsana, T. L. Bharath, and R. Hegde. 2023. "Application of Real-time PCR in diagnosis of parasitic diseases" Practical training manual of XXIV national training programme organised by ICAR-CAFT, Dept of Veterinary Parasitology, Veterinary college, Bangalore from 05th to 25th January 2023. Page no.32-34.
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Sl No	Title of the article	Date of publication	Magazine
1	ಪ್ರಾಣಿಗಳಲ್ಲಿ ಅಂತಃಪ್ರಜನನ (Inbreeding)	July 2022	ಸೂತ್ರ -ವಿಜ್ಞಾನ ಮಾಸಿಕ
2	ಸರಳ ಸಮೃದ್ಧ ಹೈನುಗಾರಿಕೆ (ಪುಸ್ತಕ) ಸಹ ಲೇಖಕ	December 2022	ನದಿ ಪ್ರಕಾಶನ, ಬೆಂಗಳೂರು.

#### LIVESTOCK RESEARCH AND INFORMATION CENTER, HALLIKHED:

Sl. No.	Type of Publication	Authors	Publishers
1.	Scientific Vermicompost Production (Kannada Booklet)	Prakashkumar Rathod and Vijaykumar N	PI, ICAR-SCSP Project, LRIC (Deoni), Bidar
2.	Improved Fodder Crops (PoP-Kannada Booklet)	Prakashkumar Rathod, Anthrao Desai, Chennappagouda Biradar and Vijaykumar N	PI, ICAR-SCSP Project, LRIC (Deoni), Bidar
3.	Deoni-Dual purpose indigenous breed, Agriculture magazine (English Popular Article)	Prakashkumar Rathod, Vijaykumar N.	The Agriculture Magazine, The Agriculture Publication Jaipur
4.	Karnatakada Hemme: Deoni Gotali (Kannada Popular Article)	Prakashkumar Rathod, Vijaykumar N.	Janapada Kannada Magazine, GoK,
5.	Karnatakada Hemme Deoni Gotali (Kannada Popular Article)	Prakashkumar Rathod, Vijaykumar N.	Krishi Bimba, Kannada Magazine, Udupi

6.	<i>Hainu Samriddige Sudharita Mevin Bele –Australian Red Napier (Kannada Popular Article)</i>	Dr.Vijaykumar N. Dr.Prakashkumar Rathod	Vijaykarnataka, Kannada Daily News paper, Bangalore
7	<i>Textbook on Fundamentals of Agricultural and Animal Husbandry Extension</i>	Dr. Mahesh Chander Dr.Prakashkumar Rathod	DKMA, ICAR, New Delhi

#### ANY OTHER ITEMS:

Working as Editorial Board Member of International Journal of Livestock Research  
Working as Editorial Board Member for Indian Journal of Veterinary Science and Biotechnology (NAAS - 5.58)  
Working as Editorial Board Member for Pashudhan Praharee

#### LIVESTOCK RESEARCH AND INFORMATION CENTER, KONEHALLI

##### POPULAR ARTICLE

1. ಹರೀಶ್ ಶೆಣೈ (2022) ಬೆಳೆಗಳಿಗೆ ಪೋಷಕಾಂಶ ಪೂರೈಸುವ ವಿವಿಧ ಗೊಬ್ಬರಗಳು. ಕೃಷಿ ಬಿಂಬ ಮಾಸಪತ್ರಿಕೆ ಜೂನ್ ಜುಲೈ 2022 ಸಂಪುಟ -20 ಸಂಚಿಕೆ -3 ಪುಟ :3-6.

##### EXTENSION FOLDER

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#### LIVESTOCK RESEARCH AND INFORMATION CENTER, NAGAMANGALA

<i>Sl No</i>	<i>Name of the Scientist</i>	<i>Title</i>	<i>Year and date of Publication</i>	<i>Publisher/Remarks</i>
01	Dr. H. K. Siddalingamurthy, Professor and Head Dr. Sathisha, K. B., Asst Professor	Mandya kuri saakaanike – sankshipta mahiti	2022-23	
02	Dr. H. K. Siddalingamurthy, Professor and Head Dr. Sathisha, K. B., Asst Professor	Laabhadaayaka Kuri Saakanike	2022-23	

#### LIVESTOCK RESEARCH AND INFORMATION CENTER, DORNAHALLI

<b>Extension Publications</b>					
#	<i>Type of Publication</i>	<i>Authored by</i>	<i>Title</i>	<i>Month&amp; Year</i>	<i>Published by</i>
01	Bulleteins	Dr. Shesha Rao Suresh	Dairy Bulleteins	Nov-2022	Dr. Shesha Rao
02	Bulleteins	Dr. Shesha Rao Suresh	Fodder Bulleteins	Nov-2022	Dr. Shesha Rao

## FISHERIES RESEARCH AND INFORMATION CENTER, HEBBAL

### a) Books -02

#	Year	Authors	Title of the Book	Name of the Publishers
1	2022-23	<b>Dr.K. B. Rajanna</b> Dr.Manjappa N, Dr.Vijaykumar.S Dr. Harsha Nayak	Freshwater Fish Farming FRIC(I),Hebbal,Bangaluru & Directorate of Extension,KVAFSU,Bidar	FRIC(I),Hebbal,Bangaluru & Directorate of Extension,KVAFSU,Bidar
2.	2022-23	<b>Dr.K. B. Rajanna</b> Dr.Manjappa N, Dr.Vijaykumar.S Dr. Harsha Nayak	Fish disease and their management in Aquaculture	FRIC(I),Hebbal,Bangaluru & Directorate of Extension, KVAFSU, Bidar

### B) LABORATORY MANUAL

1.	2022	<b>Dr. Rajanna. K.B</b> Dr.Manjappa.N Dr.Chethan.N Dr. Harsha Nayak Ms. Poojitha M	Laboratory manual on Nutrients analysis of feed and food products	Fisheries Research and Information center, Hebbal, Bengaluru
2.	2022	<b>Dr. Rajanna. K.B</b> Dr.Manjappa.N Dr.Chethan.N Dr. Harsha Nayak Ms. Poojitha M	Laboratory manual on Water & Waste Water Analysis	Fisheries Research and Information center, Hebbal, Bengaluru
3.	2022	<b>Dr. Rajanna. K.B</b> Dr.Manjappa.N Dr.Chethan.N Dr. Harsha Nayak Ms. Poojitha M	Laboratory manual on analysis of soil and sediment quality	Fisheries Research and Information center, Hebbal, Bengaluru
4.	2022	<b>Dr. Rajanna. K.B</b> Dr.Manjappa.N Dr.Chethan.N Dr. Harsha Nayak Ms. Poojitha M	Laboratory manual on Analysis of heavy metal and biological components	Fisheries Research and Information center, Hebbal, Bengaluru

### c) POPULAR ARTICLES

1	Satyaveer, K. B. Rajanna and Durgesh Kuamar Verma	Present Trend and Future Scope of Coastal Aquaculture in India	<i>Vigyan Varta</i> 3(6): 121-124. <i>E-ISSN: 2582- 9467</i>	2022
2	Satyaveer K B Rajanna,	Use of Mobile Apps in Aquaculture Sector: Its Advantages	<i>Agriallis V-4(8)</i> <i>pp:18-25</i>	2022



3	Satyaveer, K.B. Rajanna, Harsha Nayak and Sruthisree C	Status of Freshwater Fisheries Resources of Karnataka, India	<i>Article ID:</i> <i>AEN-2022-03-</i> <i>08-003, V-3 (8 )</i> <i>Pp:8-13</i>	2022
4	Satyaveer, Harsha Nayak, Sruthisree C, Rajanna K.B and Sheethal Panathila	Marine Fish Landings of Karnataka, 2020: An Overview	<i>Article ID:</i> <i>AEN-2022-03-</i> <i>06-013</i> <i>V-3 (3 )</i> <i>Pp:49-53</i>	2022
5	Satyaveer K B Rajanna,	Health Benefits and Medicinal Value of Mushroom	<i>Article ID:</i> <i>AEN-2022-03-</i> <i>09-005 V-3 (9 )</i> <i>Pp:13-17</i>	2022
6	Satyaveer K. B. Rajanna N. K. Suyani and S. S. Rathore	Common Freshwater Aquaculture Diseases and Its Management	<i>Article ID:</i> <i>AEN-2022-03-</i> <i>07-002</i>	2022
7	Rajesh Jayaswal. Jeetendra Kumar Absar Alam K.B.Rajanna Parul Durgesh Kumar Verma	Conservation Challenges in Bleaching & Degradation of Coral Reefs Ecosysytem	Bio. Res. Today 2023, 5(2), Article ID:RT1234 e-ISSN:2582- 6654	2023

#### D) LEAFLETS/ BULLETINS/FOLDERS

#	Type of publication	Month & Year	Authors	Title of the Publication
1	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandan.N	Krushhi hondadali menu sakanike
2	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandana.N	Kola hagu keregalali menu sakanike
3	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandan.N	Meenumarigala utpadane, palane hagu sakanike

4	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandan.N	Samagra Meenu krushi
5	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandan.N	Mannu hagu nirina rasayanika gunavisheshagalu mathu menu sakanikeyali avugala pramukyathe
6.	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandan.N	Production of ornamental fishes and their important
7.	Leaf lets	2022-23	Dr.K.B.Rajanna Dr.Manjappa.N Dr.Harsha Nayak Mrs.Vandan.N	Fish farming in Biofloc technology

#### FISHERIES RESEARCH AND INFORMATION CENTER, HESARAGHATTA

#	Year	Authors	Title of the Book	Name of the Publishers
<b>a) Books Chapter</b>				
1	ಸೆಪ್ಟೆಂಬರ್ 2022	ಡಾ   ಮಂಜಪ್ಪವನ್.	ಆಧುನಿಕ ಮೀನು ಕೃಷಿ ಮತ್ತು ಕೊಳಗಳಲ್ಲಿ ಮರೆಲ್ ಮೀನು ಕೃಷಿ ಪು.ಸಂ: 58-60	ಮೀ.ಸಂ.ಮಾ.ಕೇ., ಭೂತನಾಳ ಮತ್ತು ವಿಸ್ತರಣ ನಿರ್ದೇಶನಾಲಯ, ಕಕಪಪಮೀವಿವಿ, ಬೀದರ
<b>b) Laboratory Manual</b>				
-	-	-	-	-
<b>c) Popular Articles</b>				
1	April 2022	Dr.RavindragoudaPatil	ಪ್ರಚೋದಿತ ಮೀನು ಮರಿಉತ್ಪಾದನೆ	ಕೃಷಿ ಬಿಂಬ
2	September 2022	Dr.RavindragoudaPatil	Blue Revolution	ಕೃಷಿ ಬಿಂಬ
3	December 2022	Dr.RavindragoudaPatil	Biofloc Technology	ಕೃಷಿ ಬಿಂಬ

#### FISHERIES RESEARCH AND INFORMATION CENTER, BHUTHNAL

#	Type of Publication	Year of the Publication	Authors	Title of Paper
01	Manuals	2022-23	Dr.Vijayakumar S Dr Vijay S. Atnur	Fish Farming in Biofloc system

## FISHERIES RESEARCH AND INFORMATION CENTER, ANKOLA

1	Chandrakant Lingadhal,2022.Freshwater prawn farming Book chapter in Modern Fish Culture edited by Vijayaumar S,Ganeshprasad L and Vijay Athur.Published by FRIC(I),Vijayapur and Directorate of Extension,KVAFSU,Bidar.
2	Chandrakant Lingadhal and Viajaykumar S.,2022. In training Manual : Integrated Fish Farming with livestock in the Training programme on Recent Developments in Integrated Fish Farming.

## KRISHI VIGYAN KENDRA - DAKSHINA KANNADA, MANGALURU

Select extension activity for (OFT/FLD /Others)	Title	Journal/Magazine/ Blog Name	Volume / page Nos	Nos	Author Name
Popular articles -	Leaf spot diseases of arecanut and their management	Agriculture and food E news letter	04(12): 368-369	1	Kedarnath
	Trichoderma as a potential biocontrol agent	Agriculture and food E news letter	04(12): 462-463	1	Kedarnath
	Case study ecofriendly pest management of organic paddy in coastal karnataka	Agriculture and food E news letter	05(02): 371-372	1	T. J Ramesha and Kedarnath
	Inflorescens die back and button shedding in arecanut	Agriculture and food E news letter	05(02): 371-372	1	T. J Ramesha and Kedarnath
	Sahyadri Panchamukhi battada tahliya bhagirata – Dayananda Kulal Delanthabettu	Krishi Vignana, UASB	46/29-31	2	Dr. Naveen Kumar B.T., Dr. T.J. Ramesha and Dr. Mallikarjuna L
	KrishiYalli Raithopayoge App	Krishi Bimba	21(5):20-22	2	Dr. Rashmi R. Dr. T.J. Ramesha
	ತರಕಾರಿ ಬೆಳೆಗಳಲ್ಲಿ ಉತ್ಕೃಷ್ಟ ಮತ್ತು ಗುಣಮಟ್ಟದ ಇಳುವರಿಗಾಗಿ ತರಕಾರಿ ಸ್ಟೆಪ್‌ಲ ಬಳಕೆ	Krishi Bimba	20(07):61-62	2	Dr. Rashmi R., Dr. T.J. Ramesha, Dr. Kedarnath, Kumar Vijetha V., Dr. Naveen Kumar B.T., and Dr. Mallikarjuna L,

E-News letter	Krishi Sanjeevine	Krishi Sanjeevine-English version	Vol-1, Issue-1 January-June 2022	20	Dr. T.J. Ramesha, Dr. N.A. Patil, Dr. Chethan N, Dr. Shivakumar R, Dr. Kedarnath, Dr. Naveen Kumar B.T., Dr. Mallikarjuna L, Dr. Rashmi R, Mr. Sathisha Naik K.
		Krishi Sanjeevine-Kannada version	Vol-1, Issue-1 January-June 2022	20	
	Krishi Sanjeevine	Krishi Sanjeevine-English version	Vol-1, Issue-2 July-September 2022	20	Dr. T.J. Ramesha, Dr. N.A. Patil, Dr. Mallikarjuna L, Dr. Shivakumar R, Dr. Chethan N, Dr. Kedarnath, Dr. Naveen Kumar B.T., Dr. Rashmi R, Mr. Sathisha Naik K.
		Krishi Sanjeevine-Kannada version	Vol-1, Issue-2 July-September 2022 20	20	
	Krishi Sanjeevine	Krishi Sanjeevine-English version	Vol-1, Issue-3 October 2022 to December 2022	20	Dr. T.J. Ramesha, Dr. N.A. Patil, Dr. Rashmi R, Dr. Shivakumar R, Dr. Chethan N, Dr. Kedarnath, Dr. Naveen Kumar B.T., Dr. Mallikarjuna L, Mr. Sathisha Naik K.
		Krishi Sanjeevine-Kannada version		20	
Extension Literature	Scientific Coconut Cultivation Technologies	-	-	150	Dr. Rashmi R., Dr. T.J. Ramesha, Dr. Kedarnatha, Dr. Chetan N, Dr. Naveen Kumar and Dr. Mallikarjuna
Extension Literature	adikeyalli kole roga mattu ele chukke roga nirvahane	-	-	200	Dr Kedarnath, Dr T. J. Ramesh and Dr Rashmi R, Dr Vivek Uppar, Dr Siddiqi, Shri Shishir

	Murrel fish farming	-	-	200	Dr. Chetan N,
	Pungasisus fish farming	-	-	200	Dr. Chetan N,
	Value addition in fish	-	-	50	Dr. Chetan N,



## 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	135.02	a	Daily Wages	136.22
b	Grant-in-Aid-Salary (KVAFSU-HRMS)	8063.03	b	Grant-in-Aid-Salary (KVAFSU-HRMS)	8063.03
	Grant-in-Aid-Salary (IAH&VB-HRMS)	1464.87		Grant-in-Aid-Salary (IAH&VB-HRMS)	1464.87
c	Grant-in-Aid- General (KVAFSU)	0.00	c	Grant-in-Air General (KVAFSU)	1027.50
d	Grant in Aid Contract/Outsource (KVAFSU)	2100.69	d	Grant in Aid Contract/Outsource (KVAFSU)	2072.31
	Grant in Aid Contract/Outsource (IAH&VB)	99.52		Grant in Aid Contract/Outsource (IAH&VB)	123.44
e	Grant-in-Aid-Pensions (KVAFSU)	2462.73	e	Grant-in-Aid-Pensions (KVAFSU)	3027.76
	Grant-in-Aid-Pensions (IAH&VB)	613.61		Grant-in-Aid-Pensions (IAH&VB)	613.61
f	Grant-in-Aid Scholarships and Incentives	503.70	f	Grant-in-Aid Scholarships and Incentives	551.25
	<b>Sub Total - 1</b>	<b>15443.17</b>		<b>Sub Total - 1</b>	<b>17089.42</b>
<b>2</b>	<b>Internal Resources</b>		<b>2</b>	<b>Internal Resources</b>	
a	Income from Fees	1353.23		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)	
b	Income from University Property	400.45			
c	Income from Colleges	24.43			
d	Income from Research Stations	358.39			
e	Receipts from ICAR Projects (37.50%)	15.48			
f	Other Misc. Income	440.13			
	<b>Sub Total - 2</b>	<b>2592.12</b>			<b>Sub Total - 2</b>
<b>3</b>	<b>SCSP / TSP Grants</b>		<b>3</b>	<b>SCSP / TSP Grants (Plan)</b>	
a	Scheduled Caste Sub-Plan (SCSP)	130.00	a	Scheduled Caste Sub-Plan (SCSP)	55.05
b	Tribal Sub-Plan (TSP)	66.00	b	Tribal Sub-Plan (TSP)	31.00
	<b>Sub Total - 3</b>	<b>196.00</b>		<b>Sub Total - 3</b>	<b>86.05</b>
<b>4</b>	<b>Capital Grants</b>		<b>4</b>	<b>Capital Expenditure</b>	
a	Education, Extension & Research	5200.00	a	Education, Extension & Research	2662.81
b	Grants for Equipments (IAH&VB)	200.00	b	Grants for Equipments (IAH&VB)	667.58
	<b>Sub Total - 4</b>	<b>5400.00</b>		<b>Sub Total - 4</b>	<b>3320.97</b>
<b>5</b>	<b>State Adhoc Projects</b>		<b>5</b>	<b>State Adhoc Projects</b>	
a	Adhoc Project	52.37	a	Adhoc Project	127.93
b	RKVY Projects	0.00	b	RKVY Projects	278.40
c	SUJALA-III Projects	0.00	c	SUJALA-III Projects	6.77
d	KKRDB	696.77	d	KKRDB	0.00
	<b>Sub Total - 5</b>	<b>749.14</b>		<b>Sub Total - 5</b>	<b>413.10</b>
<b>6</b>	<b>Government of India Schemes</b>	<b>44.24</b>	<b>6</b>	<b>Government of India Schemes</b>	<b>263.01</b>
<b>7</b>	<b>Grants from ICAR</b>		<b>7</b>	<b>Grants from ICAR</b>	
a	ICAR Development Schemes	155.76	a	ICAR Development Schemes	174.17
b	ICAR Coordinated Projects (75%)	79.11	b	ICAR Coordinated Projects (75%)	43.52
c	AICRP Poultry Receipts (62.50%)	25.80	c	AICRP Poultry Receipts (62.50%)	0.00
d	ICAR Coordinated Projects (100%)	20.17	d	ICAR Coordinated Projects (100%)	60.94
e	Krishi Vignyana Kendra	127.74	e	Krishi Vignyana Kendra	132.91
	<b>Sub Total - 7</b>	<b>408.58</b>		<b>Sub Total - 7</b>	<b>411.53</b>
<b>8</b>	<b>Other Agencies</b>	<b>346.61</b>	<b>8</b>	<b>Other Agencies</b>	<b>69.25</b>
	<b>TOTAL A (1 to 8)</b>	<b>25179.87</b>		<b>TOTAL A</b>	<b>21653.33</b>
<b>B</b>	<b>DEPT &amp; SUSPENCE A/C.</b>		<b>B</b>	<b>DEBT &amp; SUSPENCE A/C.</b>	
a	Debt & Suspense A/c (General)	1375.86	a	Debt & Suspense A/c (General)	382.28
b	Recovery / Deductions from Salary & Other bills	2732.48	b	Recovery / Deductions from Salary & Other bills	2921.80
	<b>Total B</b>	<b>4108.34</b>		<b>Total B</b>	<b>3304.08</b>
	<b>TOTAL (A+B)</b>	<b>29288.21</b>		<b>TOTAL (A+B)</b>	<b>24957.41</b>
	<b>Add : Opening Balance</b>	<b>6849.06</b>		<b>Add : Closing Balance</b>	<b>11179.86</b>
	<b>GRAND TOTAL</b>	<b>36137.27</b>		<b>GRAND TOTAL</b>	<b>36137.27</b>

## VI. GENERAL ADMINISTRATION

### 1) Compassionate Appointment for the year 2022-23 (01.04.2022 to 31.03.2023)

#	Name	Designation	Place of working	Appointment Order No.
1	Smt. Prathibha Kumari Mother Late. Smt. Shantamma Bangalore	Messenger	FRIC Hesaraghatta, Bangaluru	ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಅ.ನೇ/ಶ್ರೀಮತಿ. ಪ್ರತಿಭಾಕುಮಾರಿ/2022-23 ದಿನಾಂಕ:30.06.2022
2	Smt. Sunitha Balannavar Late. Santhosh Talwar, Vijayapur	Assistant	Veterinary College, Gadag	ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಅ.ನೇ/ಶ್ರೀಮತಿ. ಸುನಿತಾ ಬಾಲಣ್ಣವರ/2022-23/1466 ದಿನಾಂಕ:30.06.2022
3	Sri. Shivakanth Kadde Late. Sri. Vaijinath Kadde, Bidar	Animal Attender	Veterinary College, Bidar	ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಅ.ನೇ/ಶ್ರೀ. ಶಿವಕಾಂತ್/2022-23/4844/6 ದಿನಾಂಕ:05.01.2023
4	Sri. Manish Srinivas Late. Srinivasa, Bangalore	Assistant	Veterinary College, Bangaluru	ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಅ.ನೇ/ಶ್ರೀ. ಮನೀಶ್/2022-23/5082 ದಿನಾಂಕ:16.01.2023
5	Ku.Sanchi Ligade Late Sri. Mallikarjun Ligade, Bidar	Assistant	Dean, Veterinary College, Bidar	ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಅ.ನೇ/ಕು.ಸಾಂ ಚಿ.ಲಿ/2022-23/5269 ದಿನಾಂಕ:25.01.2023
6	Sri. Vishal Kumar.S Late. Sri. Somshekar, N.S Bangalore	Animal Attender	Dean, Veterinary College, Shivamogga	ಕುಸ/ಕಪಪಮೀವಿವಿ/ನೇ.ವಿ/ಅ.ನೇ/ ಶ್ರೀ. ವಿಶಾಲ್ ಕುಮಾರ್.ಎಸ್/ 2022-23/02/774 ದಿನಾಂಕ:16.05.2023

### 2) Superannuation

#### List of Superannuated Employees of KVAFSU, Bidar between 01-04-2022 to 31-03-2023

#	Employs Name Designation & Place	Empl. No.	Date of Birth	Date of Super-annuation	Retirement dated
<b>TEACHING STAFF</b>					
1	Dr. K. Satyanarayana Professor Veterinary College, Bengaluru	1152	06.05.1960	06.05.2022	31.05.2022
2	Dr. R. Prabha Assistant Professor Dairy Science College, Bengaluru	1581	20.06.1960	20.06.2022	30.06.2022
3	Dr. V. Gireesh Kumar Professor Veterinary College, Bengaluru	1048	11.07.1960	11.07.2022	31.07.2022
4	Dr. S.M. Byregowda Director IAH&VB, Bengaluru	2019	22.07.1960	22.07.2022	31.07.2022
5	Dr. Suguna Rao Professor & Head Veterinary College, Bengaluru	1108/ 01001 73995	30.01.1961	30.01.2023	31.01.2023

**NON-TEACHING STAFF**

1	Sri. Chikka, K. Senior Watchman G-1 College of Fisheries, Mangaluru	1405	22.04.1962	22.04.2022	30.04.2022
2	Sri. Ravindra, K. Marali Plant Engineer IAH&VB, Bengaluru	2158	20.05.1962	20.05.2022	31.05.2022
3	Smt. Shantamma, B. Senior Farm Labour Veterinary College, Bidar	1552	26.05.1962	26.05.2022	31.05.2022
4	Smt. Venkatamma, Daily Rated Employee Veterinary College, Bengaluru	5047	26.05.1962	26.05.2022	31.05.2022
5	Sri. Shivappa Kyasre Senior Farm Labour Veterinary College, Bidar	1533	01.06.1962	01.06.2022	31.05.2022
6	Sri. K. Krishnegowda Attender LRIC, Nagamangala	1479	10.06.1962	10.06.2022	30.06.2022
7	Sri. V.S. Navalgund Deputy Registrar IAH&VB, Bengaluru	1212	20.07.1962	20.07.2022	31.07.2022
8	Sri. Siddaram Senior Animal Attender G-1 Dairy Science College, Bengaluru	1452	20.07.1962	20.07.2022	31.07.2022
9	Sri. Ashok Daily Rated Employee LRC, Hallikhed-Bidar	5026	23.07.1962	23.07.2022	31.07.2022
10	Sri. Tukaram Janu Bhoys Daily Rated Employee, Fisheries Research & Information Centre Ankola.	5107	05.07.1962	05.07.2022	31.07.2022
11	Sri. M. Narayana Attender College of Fisheries, Mangaluru	1356	01.08.1962	01.08.2022	31.07.2022
12	Sri. R. Shankar Helper IAH&VB, Bengaluru	2175	23.08.1962	23.08.2022	31.08.2022
13	Smt. Chottima Helper IAH&VB, Bengaluru	2166	25.08.1962	25.08.2022	31.08.2022
14	Sri. L.N. Bettaswamy Senior Laboratory Assistant FRIC, Hebbal-Bengaluru	1647	01.10.1962	30.09.2022	30.09.2022
15	Sri. A. Siddappa Senior Laboratory Assistant G-1 IAH&VB, Bengaluru	2080	23.10.1962	23.10.2022	31.10.2022
16	Smt. Geeta Senior Gardener College of Fisheries, Mangaluru	1501	02.12.1962	02.11.2022	30.11.2022

17	Smt. Ronald Lorena Refrigerator Mechanic College of Fisheries, Mangaluru	2007	13.11.1962	13.11.2022	30.11.2022
18	Sri. Syad Mazoor Ahamd Khadri Senior Shelf Assistant Grade-1 Veterinary College, Bidar	1308	10.12.1962	10.12.2022	31.12.2022
19	Sri. K.J. Anjanappa Driver (HV) Veterinary College, Bengaluru	1319/ 01001 74050	10.03.1963	10.3.2023	31.03.2023
20	Sri. K. Ramayya Helper IAH&VB, Bengaluru	01001 74361	05.03.1963	05.03.2023	30.03.2023

**Employees Death in Service during 2022-23**

1	Late. N.S. Somasekhar Assistant Professor ( Phy. Edu.) Veterinary College, Bengaluru	1157	04.06.1967	-	06.04.2022
2	Late. Ramanna Daily Rated Employee Veterinary College, Bidar	5022	25.07.1972	-	29.11.2022
3	Late. Sudhir Kumar Senior Laboratory Assistant College of Fisheries, Mangaluru	1371	25.09.1972	-	12.02.2023
4	Late. L.M. Mahesh Senior Laboratory Technician Animal Health Hospital Laboratory Information Centre Davanagere	1877	23.06.1972	-	16.02.2023

## VII. INFRASTRUCTURE DEVELOPMENT

### Details of progress of works under taken by KVAFSU during the year 2022-23

#	<i>Name of Work</i>	<i>Bid Amount in Rupees</i>
1	Construction of First floor Girls hostel at Veterinary college Gadag	18679056.00
2	Construction of compound wall to Girls hostel at Veterinary college Gadag.	3298659.37
3	Construction of store room to Poultry shed at Veterinary College Bidar (For SC)	799879.66
4	Providing and fixing wooden flooring for two badminton courts in indoor stadium at Veterinary College KVAFSU Bidar	1358093.43
5	Renovation of Swimming pool leakage work at College of Fisheries, Mangalore	1091980.76
6	Renovation and Modernization of existing cattle shed and piggery shed at KVK Mangalore	719266.38
7	Providing false ceiling to Kannada Sabhangana at Regional Office Hebbal Bangalore	454350.00
8	Providing ceiling lighting to Kannada Sabhangana at Regional Office Hebbal Bangalore (For ST)	449576.79
9	Construction of Septic tank for Girls Hostel at Veterinary College, Shivamogga	779796.99
10	Providing chain link fencing for sheep unit and Administrative block at LRIC Konehalli	182914.18
11	Construction of feed and fodder store for Dairy unit (for storage of dry fodder produced in the farm approx 25 tons) at LRIC Konehalli (FOR SC)	1442249.02
12	Construction of feed store for piggery unit (storage of raw material for feed ,ill capacity of 1.5-2.0 tons day) at LRIC Konehalli (FOR SC)	1438856.74
13	Construction of overhead tank and water supply for piggery unit at LRIC Konehalli	455953.61
14	Construction of poultry hatchery at LRIC Konehalli	1242923.06
15	Water pipeline for dairy fodder unit (layout of water pipeline for an area of 6.0 acres with drip irrigation, water filter unit and venture unit) at LRIC Konehalli	442980.00
16	Construction of Dairy vermicompost unit (construction of vermicompost pits with 4/6/8 compartments, GI shelter, water channel for protection from ants, pets, protective mesh over vermicompost unit from prey birds and water supply) at LRIC Konehalli	443698.96
17	Drilling of Borewell at FRIC, Hebbal, Bangalore (FOR ST)	411664.87
<b>Total</b>		<b>33691899.82</b>