



MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR

ANNUAL REPORT 2019-2020





ANNUAL REPORT 2019 – 2020

Parton

Col (Dr.) Prof. A. M. Paturkar

Vice-Chancellor

Editorial Board

Dr. V. D. Aher

Director Extension Education

Dr. G. V. Dhume

Technical Officer

Dr. A.P. Dhok

Assistant Professor and
Technical Officer to Hon'ble
Vice-chancellor

Dr. S. P. Landge

Assistant Professor
and Technical Officer

Dr. R. P. Kolhe

Assistant Professor

Dr. S. R. Kolhe

Assistant Professor

- PUBLISHED BY -

DIRECTORATE EXTENSION EDUCATION

Maharashtra Animal & Fishery Sciences University, Nagpur – 440 001

Phone - 0172-2980014, E-mail : mafsudet@yahoo.co.in, deemaafsu@gmail.com, Website: www.mafsu.in

Toll Free No.: 1800-233-3268



PREFACE



Col. (Dr.) Prof. A. M. Paturkar
Vice-Chancellor

It gives me an immense pleasure to put forward the annual report of University for the year 2019-20 depicting some of the significant achievements of the University in the field of education, research and extension. The University is serving to facilitate sustainable management, conservation and augmentation of rich and diverse animal resources including fisheries in the State of Maharashtra by producing highly competent human resources through teaching, research, and training and also by providing technology support to improve the animal husbandry and fisheries sector.

Indeed it is proud privilege to lead this largest Animal and Fishery Sciences University in the country with five constituent Veterinary Colleges, one Post-graduate Institute of Veterinary and Animal Sciences, two Dairy Technology Colleges and two Fishery Sciences Colleges besides 100 affiliated schools offering diploma in livestock management and dairy production.

In addition to this recently sanctioned additional Undergraduate College for Veterinary Sciences (B.V.Sc. & A.H.) at Akola and one college of Fishery Sciences in Amravati district. Also ICAR has sanctioned two Krishi Vigyan Kendras (KVKs) to the University; one at Mauza Tadsar, Tahsil Kadegaon, Dist. Sangli & another at Mauza Dudhbardi, Tahsil Kalmeshwar, Dist. Nagpur are coming on the way and thus upgrading the ranking of University from 31st to 28th position amongst all 60 Agricultural Universities across India and second among State Agricultural Universities in Maharashtra.

The students of constituent colleges of the University have consistently excelled at All India ICAR-JRF Entrance Examination. During the year 2019-20, total 3 students received SRF and 11 students received the Junior Research Fellowships. Apart from this, scholarships and fellowships are awarded to academically meritorious students. The government is also providing financial assistance to economically poor and backward class students as Freeships.

The students are encouraged to participate in various extracurricular activities viz. Inter-University Sports /cultural festival /Avishkar (Research competitions), regular and special NSS activities for their overall development and for igniting a sense of learning through self-experience.



A total of 80 sponsored research projects funded by various National, State and Private agencies with a total outlay of Rs. 6258.31 lakhs are being implemented and 20 research projects worth Rs. 535.16 lakhs were completed during this year. Significant findings from these research along with the research conducted by staff and students have yielded in 352 research publications in National and International journals.

During 2019-20 University has participated in 41 exhibitions and conducted 80 trainings for farmers and 27 trainings for field officers. Total 298 demonstrations were conducted for imparting the scientific knowledge to farming community. Total 124 animal health camps were organized and also forms an important part of the outreach activities of University. Hospital, ambulatory services and animal health camps organized by constituent veterinary colleges have provided medical treatment, surgical interventions, gynaecological examinations and artificial inseminations to 1,35,027 cases including vaccinations. Expert faculties from the University have delivered guidance using Electronic Mass Medias like radio and television through 161 programmes on animal husbandry, dairy technology, poultry and fisheries sectors both in regional and state level radio and television stations. Total 74 leaflets, 8 books, 77 articles in local newspapers and 62 extension articles were published by the University. This has strengthened in establishing linkages and close co-ordination with State Department of Animal Husbandry, Dairy Development, Fisheries, Agriculture and other concerned departments and NGO's. through the technology dissemination amongst all the stakeholders. The University has successfully completed the infrastructural work worth Rs. 931.63 lakhs. This wing of the University is now handling ongoing works worth Rs. 3772.12 lakhs.

The faculties and students of University have excelled in various fields and were awarded/ felicitated by Govt. and Non-Govt. organizations and University is now poised at an appropriate stage of development where the real benefits can be served to the society. I am quite confident that University will strive hard in future also to accomplish the goal of achieving "par excellence" in mandated domains of Education, Research and Extension.

Col. (Dr.) Prof. A. M. Paturkar



INDEX

1. Executive Summery	1
2. University Governance	3
2.1. Vision, Mission and Goal	3
2.2. Statutes and Regulations	4
2.3. University Authorities	5
2.3.1. Executive Council	5
2.3.2. Academic Council	6
2.3.3. Board of Studies	8
2.3.4. Research Council	8
2.3.5. Extension and Continuing Education Council	10
2.4. Administration	12
2.4.1. Establishment (VC Office, DI & Dean (Vet.), DR, DET etc.)	12
2.4.2. Faculty/Staff Strength	13
2.4.3. Administrative set up (Organogram)	14
2.4.4. Establishment Facilities	15
2.4.5. Hostel	15
2.4.6. Library	16
2.4.7. IT facilities	17
2.4.8. Website	18
3. Supporting Units	19
4. Constituent Colleges	20
5. Education	21
5.1. Higher Education	21
5.1.1. Eligibility, Intake Capacity and admissions	21
- Faculty of Vety. Science (B.V.Sc. & A.H., M.V.Sc. and Ph.D)	21
- Faculty of Dairy Technology (B.Tech and M.Tech)	24
- Faculty of Fishery Sciences (B.F. Sc.)	25
5.1.2. Degrees Awarded	25
5.1.3. Classrooms and Laboratories	27
5.1.4. Facilities for Students	27
5.2. Lower Education	28
5.2.1. Student Intake Capacity	28
5.2.2. Students on Roll	28
5.2.3. Distribution of Lower Education Schools in Maharashtra	29
6. Students Development	31



6.1. Scholarships/ Fellowships	31
6.2. Students performance in National Examinations	32
6.3. NSS/NCC Activities	32
6.4. Students Placement Profile	36
6.5. Awards/Recognitions/ Certificates	36
6.6. Employability	39
7.Capacity Building of Faculty and Staff Development (HRD)	40
8. Research	41
8.1.Institute Wise Number of Ongoing Research Projects	41
8.2. Details of Institute and Funding Agency Wise Ongoing Research Projects	41
8.3. Institute Wise Number of Completed Research Projects	49
8.4. Details of Institute and Funding Agency Wise Completed Research Projects	49
8.5. Details of Extramural Research Projects with Salient Achievements	52
8.6. Students Research	55
8.7. List of Memorandum of Understanding	61
8.8. Research Publications	61
8.9. Research Recommendations	87
9. Extension	97
9.1. Trainings	97
9.2. Workshops/Seminars	106
9.3. Activities in Adopted Villages	113
9.4. Hospital Activities / Ambulatory Clinics / Animal Health Camps	113
9.5. Demonstrations organized for Farmers	117
9.6. Farmers Scientists Visit	119
9.7. Exhibitions	119
9.8. Extension Publications/Radio/TV talks	124
10. Farm Activities	125
11. Awards, Honours and Recognitions	135
12. Visits of Dignitaries	144
13. Buildings and Constructions	151
13.1. Completed Works	151
13.2. Ongoing Works	152
14. Accounts and Finance	153



1 EXECUTIVE SUMMARY

Maharashtra Animal & Fishery Sciences University (MAFSU) was established under the state Act 1998 (MAH. XVII of 1998) on 3rd December, 2000 with its head quarter at Nagpur. The University is serving towards the sustainable management, conservation and augmentation of rich and diverse animal and fishery resources in the State.

The University was carved out of the four Agricultural Universities in the State by transferring five Veterinary Colleges, one Post Graduate Institute of Veterinary and Animal Science and one Dairy Technology College. Considering the need for developing human resource in fishery sciences as well as in dairy technology, University established two new colleges of fishery sciences, one at Nagpur in 2006 and another at Udgir in 2007. Similarly one dairy technology college was established at Udgir in 2008.

Maharashtra Animal and Fishery Sciences University is imparting five and half years degree as Bachelor of Veterinary Science and Animal Husbandry (B.V.Sc. & A.H.), as per the Minimum Standards of Veterinary Education-2016 (MSVE-2016) prescribed by the Veterinary Council of India, New Delhi. Two years master's degree as Master of Veterinary Science (M.V.Sc.) in all the disciplines of Veterinary and Animal Sciences, as per the guidelines prescribed by the Indian Council of Agricultural Research, New Delhi are offered. Doctorate (Ph.D.) of three years duration for regular candidate and four years duration Doctorate (Ph.D.) for in-service MAFSU employees is offered in many disciplines in the constituent colleges. Four years degree programme as Bachelor of Fishery Science (B.F.Sc.) is being imparted through Fishery Science Colleges and four years degree programme as Bachelor of Technology (Dairy Technology) [B.Tech. (DT)] through Dairy Technology Colleges of the University, as per the recommendations of V Deans' Committee approved by ICAR, New Delhi.

Apart from this, the University faculty of Lower Education offers two years diploma course "Livestock Management and Dairy Production" for promoting entrepreneurship through its 100 diploma schools recognized by the University. Total 4865 students are admitted in LMDP diploma course in 2019-20.

The students of constituent colleges of the University have consistently registered excellent performance at All India ICAR-JRF Entrance Examination. During the year 2019-20, total 3 students received SRF and 11 students received the Junior Research Fellowships. Apart from this, scholarships and fellowships are awarded to academically meritorious students. The government is also providing financial assistance to economically poor and backward class students as freeships. Student's welfare is being achieved by encouraging the students to participate in various extra curricular activities viz. Inter-University Sports/cultural festival/Avishkar (Research competitions), regular and special NSS activities as a learning experience.

Research is an integral part of the University and during 2019-20, a total of 80 sponsored research projects funded by various national, state and private agencies with a total outlay of Rs. 6258.31 lakhs were in progress. A total of 20 research projects worth Rs. 535.16 lakhs were completed during the report year. Total 352 research publications have been published in national and international journals by faculty members of colleges.

University Extension is yet another vibrant wing of the University with focus on technology dissemination



amongst all the stakeholders. To achieve this, the University is working in close co-ordination with State Department of Animal Husbandry, Dairy Development, Fisheries, Agriculture, and allied line departments and NGO's. To strengthen the extension activities, the University has applied for five additional KVK's in the districts, Nagpur, Jalna, Kolhapur, Sangli and Thane districts, out of which two KVK's viz. Mauza Tadsar, Tahsil Kadegaon, Dist. Sangli & other at Mauza Dudhbardi, Tahsil Kalmeshwar Dist. Nagpur have been sanctioned to the University.

The University participated in 41 exhibitions and conducted 80 trainings for farmers and 27 trainings for field officers. Total 298 demonstrations were organized which was attended by 23094 beneficiaries for imparting the scientific knowledge to farming community. Veterinary care and services also forms an important part of the outreach activities of University. Hospitals, ambulatory services and animal health camps organized by constituent veterinary colleges provided medical treatment, surgical operations, gynecological examinations and artificial inseminations to 1,35,027 cases including vaccinations. Total 44772 cases including vaccinations and deworming were treated through 124 animal health camps. Expert faculties from the University using Electronic Mass Medias like radio and television guided farmers through 161 programmes on animal husbandry, dairy technology, poultry and fisheries sector both in regional and State level radio and television stations. Total 74 leaflets, 8 books, 77 articles were published in local news papers and 62 periodicals were also published as extension publications. Total 10,890 farmers visited to Institutes of MAFSU and 270 faculty members visited the field during 2019-20. The University has successfully completed the infrastructural work worth Rs. 931.63 lakhs. This wing of the University is now handling ongoing works worth Rs. 3772.12 lakhs.

Faculties and students have excelled in various fields and were awarded/ felicitated by Govt. and Non-Govt organizations and professional bodies. The University is now poised at an appropriate stage of development where the real benefits can be served to the society.



2 UNIVERSITY GOVERNANCE

2.1. VISION, MISSION AND GOAL

The Maharashtra Animal and Fishery Sciences University was established through the notification dated November 17th, 2000 under the State Act No. 1998 (Mah. XVII of 1998) on 3rd December 2000 at Nagpur. The University was carved out of the four Agricultural Universities in the State by transferring five Veterinary Colleges, one PG Institute and Dairy Technology College. Subsequently, University established two Fishery Colleges and one Dairy Technology College considering the requirement and need of the State.

MAFSU MISSION

Our mission is to ensure enlightenment and empowerment of students by imparting advanced knowledge in the field of animal, dairy and fishery sciences by adopting innovative, efficient and effective strategies. We will strive for creating rural employment, economic prosperity and well being of the resource poor farming community in the State through viable and vibrant research and impact making extension education services and growth oriented and faculty friendly practices. We will contribute to public health research and practices with an ultimate aim to enrich human nutrition and welfare.

By using the latest technologies, we will make education meaningful, relevant, universally accessible, intellectually stimulating and professionally challenging. We will create environment for conducting need based high quality research, applying the best outreaching strategies and practices, leveraging the strength of our network of constituent colleges and affiliated institutes. We shall produce and offer well trained highly competent manpower and hi-tech newer technologies for enhancing productivity, augmenting production, quality and safety of the livestock products without compromising animal welfare. This will be done through a wide range of capacity development programme for field workers, livestock holder, dairymen and fishermen for bringing about the total metamorphosis of livestock, dairy and fisheries sectors in the State of Maharashtra.

2.1.A. MANDATE OF UNIVERSITY

1. To produce knowledge bearing man power in the field of Veterinary, Animal Science, Fishery Science and Dairy Technology.
2. To develop extension methodologies modules and address policy issues in respect of animal health and productivity, service delivery in the state of Maharashtra.
3. To play a role of think tank for the department of animal husbandry, dairy development and fisheries to assist in policies monitoring and impact analysis.

2.1.B. OBJECTIVES OF THE INSTITUTION

1. To impart and co-ordinate education in Animal and Fishery Sciences including the post graduate education.
2. To further advancement of learning and prosecution of research in Animal Sciences and Fishery Sciences with special emphasis on need-based research relevant to field problems of the State and aspirations of the farmers.
3. To impart lower education in the field of Veterinary, Animal Science and Fishery Sciences.
4. To organize and impart continued education, refresher's training courses and summer institutes, hold technical symposiums, seminars and workshops to bring about professional development and skill, improvement of the technical personnel in the field.
5. To hold examinations and confer such Degrees, Diplomas, Certificates and other academic distinctions as deemed fit.



6. To undertake lab to land transfer of technology, to effectively deliver benefits of research to the rural masses, industries and other related beneficiaries in the sector in the State through appropriate extension agencies.
7. To integrate teaching research and extension training with an ultimate aim to promote productivity in Animal Husbandry, Dairy, Poultry and Fishery Sectors.
8. To promote marine and inland fisheries, to preserve and upgrade wild life and zoo animals in the State.
9. To develop brackish water and fresh water aquaculture.
10. To develop marketing infrastructure.
11. To formulate welfare schemes for fishermen and livestock farmers.
12. To develop by-products technology in livestock, fisheries and dairy.
13. To liaise and establish vital linkages with concerned Departments of Animal Husbandry, Dairy Development and Fisheries Development of the State and Union and National and International Research Institutes specialized in the field of Animal and Fishery Sciences with a view to keep abreast of the latest technology.

2.2. STATUTES AND REGULATIONS

The University is governed by following Rules and Regulations.

- **Maharashtra Act No. XVII of 1998:** Maharashtra Animal & Animal and Fishery Sciences University Act – 1998 published in Maharashtra Government gazette on Monday the 4th May, 1998
- **MAFSU Statutes - 2002 :** In accordance with the section 34(1) read with section 33 of the Maharashtra Animal and Fishery Sciences University Act, 1998 (Mah.XVII of 1998) the Executive Council of the University with the assent of the Chancellor of the University on 21 April 2002 (No.CS/MAFSU/STT/43/01/B (4055/1165) made statutes namely 'Maharashtra Animal and Fishery Sciences University Statutes 2002'.
- **MAFSU Accounts Code - 2007 :** The University published regulations governing the University finances, accounts and audits as MAFSU Accounts Code– 2007 on 25.02.2007. The MAFSU Accounts Code defines the procedures and code of practices that are to be followed for smooth financial administration.
- **MAFSU Compendium - 2007:** The University vide order No. MAFSU/EST/182/07 dated: 02.04.2007 published MAFSU Compendium- 2007 which delegates financial and administrative powers to head of the offices, and controlling officers for transparent, easy and quick administration. Subsequently the compendium has been revised on dated 20.9.2019 and named as MAFSU Compendium-2019.
- **Academic Regulations – 2010 for Post Graduate Degree Programmes :** In exercise of the powers conferred under clause (iv to vii) of sub-section 2 of Section 30 read with sub-section (3) of Section 35 of the Maharashtra Animal & Fishery Sciences University Act 1998, the Academic Council promulgated the Academic Regulations – 2010 and the Executive Council of the University had accorded its approval to the Academic Regulations 2010 (AC-04/2010) for the Postgraduate (Master's & Doctorate) Degree Programme and the regulations came into effect from the academic year 2010-11. These academic regulations are in accordance with the guidelines prescribed by ICAR for post-graduate programmes.
- **MAFSU Academic Regulations for B. V. Sc. & A. H. Degree Course (2016):** The B.V.Sc & A. H. course offered by the constituent Veterinary Colleges of the University is governed by the Veterinary Council of India Minimum Standards of Veterinary Education (Bachelor of Veterinary Science and Animal Husbandry – Degree Course) Regulations – 2016. The University has formulated the MAFSU Academic Regulations for B. V. Sc. & A. H. Degree Course (2016) based on the MSVE 2016.
- **MAFSU Academic Regulations for Bachelor of Technology (Dairy Technology) Degree Course (2016):** The B.Tech (Dairy Technology) degree course offered by the constituent Dairy Technology colleges of the University is as per the recommendations of Fifth Deans' Committee of ICAR. The University has formulated MAFSU Academic Regulations for Bachelor of Technology (Dairy Technology) Degree Course (2016) as per the Fifth Dean's Committee's report.
- **MAFSU Academic Regulations for Bachelor of Fishery Science Degree Course (2016):** The B.F.Sc. degree course offered by the constituent Fishery Science colleges of the University is as per the recommendations of Fifth Deans' Committee of ICAR. The University has formulated MAFSU Academic Regulations for Bachelor of Fishery Science Degree Course (2016) as per the Fifth Dean's Committee's report.



2.3. UNIVERSITY AUTHORITIES

2.3.1. EXECUTIVE COUNCIL

The Executive council is the chief executive body of the University. The Vice Chancellor is the *ex-officio* Chairman and Registrar is *ex-officio* Secretary to the Executive Council. The Executive Council consists of following members. The 79th, Special, 80th and 81st, meetings of Executive Council were organized on 01.06.2019, 14.06.2019, 26.08.2019, 01.11.2019 & 10.01.2020, respectively in the year 2019-20. The Executive Council comprised of following members.

Executive Council Members 2019-20

Sr. No	Name/Designation	Status
1	Prof. A. M. Paturkar, Hon'ble Vice-Chancellor, Maharashtra Animal & Fishery Sciences University, Nagpur	<i>Ex-officio</i> Chairman
2	Commissioner of Animal Husbandry (M.S) Opp. Spicer College, Aundh, Pune - 411 007	<i>Ex-officio</i> Member
3	Commissioner of Fishery Development (M.S) Taraporwala Aquarium, Netaji Subhash Road, Mumbai-400002	<i>Ex-officio</i> Member
4	Commissioner of Dairy Development (M.S), Administrative Building, Worli Seaface, Mumbai - 400018	<i>Ex-officio</i> Member
5	Commissioner, Agriculture (M.S), Central Building, Pune - 411 001	<i>Ex-officio</i> Member
6	Conservator of Forests (Working Plan) Near Govt. Press, Civil Lines, Nagpur - 440 001	<i>Ex-officio</i> Member
7	Dr. Ashok Kumar, Assistant Director General (AH) (Animal Science), ICAR, Krishi Anusandhan Bhawan, Pusa, New Delhi- 110 012	Nominated Member
8	Dr. V.V. Kulkarni, Professor & Head, Dept. of LPT, Veterinary College & Research Institute, Namakkal, Tamilnadu – 637002	Nominated Member
9	Dr. Sanjay K. Gavkare. General Manager (Technical), Ventri Biologicals, Venkateshwara Hatcheries Pvt. Ltd., Pune- 411 025	Nominated Member
10	Dr. Rajiv Raman Bhatkar Aquaculture and Fisheries Consultant, 9, Pushkar, Dadar (W), Mumbai - 400 028	Nominated Member
11	Dr. (Smt) Mandakini Prakash Amte Lok Biradari Prakash, Hemalkasa, Gadchiroli- 442 710	Nominated Member
12	Dr. Kiran Bhilegaonkar Principal Scientist & Station In-Charge Training & Education Centre, ICAR – Indian Veterinary Research Institute College of Agriculture Campus, Shivajinagar, Pune – 411005	Nominated Member
13	Dr. Sudhir M. Duddalwar Founder, Techno Bird Poultry Plot No. 21, Mount Castle Hindustan Colony, Amravati Road, Nagpur – 440 033	Nominated Member
14	Shri. Shashikant Jaykumar Khot Director & Partner Paravesh Seafood Pvt. Ltd., Taloja, A-415, Plot No. 6. Silver Springs, Taloja MIDC, Taloja, Navi Mumbai – 410 208	Nominated Member
15	Dr. R.R. Gangakhedkar Scientist - G and Head (Division of ECD)	Nominated Member



	Indian Council of Medical Research V. Ramlingaswami Bhavan, Ansari Nagar, Post Box 4911, New-Delhi – 110 029	
16	Shri. Prakash Gajbhiye Hon'ble Member, Maharashtra Legislative Council Saiprabhu Apartment, Ravi Nagar Chowk, Nagpur – 440010	Nominated Member
17	Er. Govind Bapurao Narvate At. Sadguru Nagar, Old Ausa Road, Near Kalikadevi Mandir, Latur – 413 512	Nominated Member
18	Shri. Suhas Hanmant Sorte Flat No. 401/402, D Building, Royal Austaniya, Near New Palace Nagala Park, Kolhapur -416003	Nominated Member
19	Shri. Dattatray Bhausaheb Pansare At. Ghargaon, Tal. Shrigonda, Dist. Ahmednagar – 413 728	Nominated Member
20	Shri. Sarjerao Dnyandeo Patil A/P. Kale, Tal. Panhala, Dist. Kolhapur- 416 201	Nominated Member
21	Dr. Bhagwan Ashok Satale At Galnimb, Po. Agarwadgaon, Tal. Gangapur Dist.- Aurangabad - 431109 (MS)	Nominated Member
22	Shri. Suresh Shivajirao Bandgar A/P. Mahatpuri, Tal. Gangakhed, Dist. Parbhani, Pin- 431514	Nominated Member
23	Dean, Faculty of Veterinary Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
24	Dean, Faculty of Lower Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
25	Dean, Faculty of Dairy Technology, MAFSU, Nagpur	<i>Ex-officio</i> Member
26	Dean, Faculty of Fishery Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
27	Director of Extension Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
28	Director of Research , MAFSU, Nagpur	<i>Ex-officio</i> Member
29	Registrar, MAFSU, Nagpur	<i>Ex-officio</i> Secretary

2.3.2. ACADEMIC COUNCIL

The Academic council of the University serves as an advisory body and have right to advice Vice-Chancellor and the Executive council in all Academic, Research and Extension Education matters. The Vice-Chancellor is the *ex-officio* Chairman and Registrar is *ex-officio* Secretary to the Academic Council. The 44th, 45th, 46th and 47th meetings of Academic Council were organized on 28.05.2019, 07.08.2019, 17.10.2019 and 30.12.2019, respectively in the year 2019-20. The Academic Council comprised of following members.

Sr. No	Name/Designation	Status
1	Hon'ble Vice-Chancellor, MAFSU, Nagpur	<i>Ex-officio</i> Chairman
2	Director of Research, MAFSU, Nagpur	<i>Ex-officio</i> Member
3	Director of Extension Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
4	Dean, Faculty of Veterinary Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
5	Dean, Faculty of Lower Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
6	Dean, Faculty of Dairy Technology, MAFSU, Nagpur	<i>Ex-officio</i> Member
7	Dean, Faculty of Fishery Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
8	Associate Dean, Mumbai Veterinary College, Mumbai	<i>Ex-officio</i> Member
9	Associate Dean, Nagpur Veterinary College, Nagpur	<i>Ex-officio</i> Member
10	Associate Dean, College of Veterinary & Animal Sciences, Parbhani	<i>Ex-officio</i> Member
11	Associate Dean, College of Veterinary & Animal Sciences, Udgir, Dist – Latur	<i>Ex-officio</i> Member



12	Associate Dean, KNP College of Veterinary & Animal Sciences, Shirwal, Dist-Satara	<i>Ex-officio</i> Member
13	Associate Dean, College of Fishery Science, Nagpur	<i>Ex-officio</i> Member
14	Associate Dean, College of Fishery Science, Udgir, Dist-Latur	<i>Ex-officio</i> Member
15	Associate Dean, Post Graduate Institute of Veterinary & Animal Sciences, Akola	<i>Ex-officio</i> Member
16	Associate Dean, Dairy Technology College, Warud (Pusad), Dist – Yavatmal	<i>Ex-officio</i> Member
17	Associate Dean, Dairy Technology College, Udgir, Dist – Latur	<i>Ex-officio</i> Member
18	Head of Department, Animal Nutrition	<i>Ex-officio</i> Member
19	Head of Department, Veterinary Microbiology	<i>Ex-officio</i> Member
20	Head of Department, Veterinary Anatomy, Histology & Embryology	<i>Ex-officio</i> Member
21	Head of Department, Veterinary Physiology	<i>Ex-officio</i> Member
22	Head of Department, Clinical Veterinary Medicine including Ethics and Jurisprudence	<i>Ex-officio</i> Member
23	Head of Department, Poultry Science	<i>Ex-officio</i> Member
24	Head of Department, Veterinary Parasitology	<i>Ex-officio</i> Member
25	Head of Department, Veterinary Biochemistry including Clinical Biochemistry	<i>Ex-officio</i> Member
26	Head of Department, Veterinary Pharmacology & Toxicology	<i>Ex-officio</i> Member
27	Head of Department, Animal Reproduction, Gynaecology and Obstetrics	<i>Ex-officio</i> Member
28	Head of Department, Veterinary Surgery and Radiology	<i>Ex-officio</i> Member
29	Head of Department, Veterinary Pathology,	<i>Ex-officio</i> Member
30	Head of Department, Veterinary Public Health,	<i>Ex-officio</i> Member
31	Head of Department, Animal Breeding and Genetics including Biostatistics	<i>Ex-officio</i> Member
32	Head of Department, Livestock Production and Management	<i>Ex-officio</i> Member
33	Head of Department, Livestock Products Technology	<i>Ex-officio</i> Member
34	Head of Department, Veterinary Epidemiology and Preventive Medicine	<i>Ex-officio</i> Member
35	Head of Department, Veterinary and Animal Husbandry Extension	<i>Ex-officio</i> Member
36	Head of Department of Dairy Technology	<i>Ex-officio</i> Member
37	Head of Department of Dairy Engineering	<i>Ex-officio</i> Member
38	Head of Department, Dairy Chemistry	<i>Ex-officio</i> Member
39	Head of Department, Dairy Business Management	<i>Ex-officio</i> Member
40	Head of Department, Dairy Microbiology	<i>Ex-officio</i> Member
41	Head of Department, Fisheries Resource Management (Fisheries Biology)	<i>Ex-officio</i> Member
42	Head of Department, Aquaculture	<i>Ex-officio</i> Member
43	Head of Department, Fisheries Processing Technology	<i>Ex-officio</i> Member
44	Head of Department, Fisheries Engineering	<i>Ex-officio</i> Member
45	Head of Department, Fisheries Extension, Economics and Statistics	<i>Ex-officio</i> Member
46	Head of Department, Aquatic Environment Management	<i>Ex-officio</i> Member
47	Head of Department, Aquatic Animal Health Management	<i>Ex-officio</i> Member
48	Registrar, MAFSU, Nagpur	<i>Ex-officio</i> Secretary



2.3.3. BOARD OF STUDIES (BOS)

- Faculty of Veterinary and Animal Sciences -18 BOS
- Faculty of Dairy Technology- 06 BOS
- Faculty of Fisheries - 07 BOS

Faculty of Veterinary and Animal Science

1	Veterinary Anatomy, Histology & Embryology	2	Veterinary Physiology
3	Veterinary Biochemistry including Clinical Biochemistry	4	Veterinary Pharmacology and Toxicology
5	Veterinary Parasitology	6	Veterinary Microbiology & Biotechnology
7	Veterinary Pathology	8	Veterinary Public Health
9	Animal Nutrition	10	Animal Breeding & Genetics including Biostatistics
11	Livestock Production & Management	12	Livestock Products Technology
13	Animal Reproduction, Gynaecology and Obstetrics	14	Veterinary Surgery and Radiology
15	Clinical Veterinary Medicine including Ethics and Jurisprudence	16	Veterinary Epidemiology & Preventive Medicine
17	Veterinary & Animal Husbandry Extension	18	Poultry Science

Faculty of Dairy Technology

1	Dairy Technology	2	Dairy Engineering
3	Dairy Chemistry, Biochemistry and Food Technology	4	Dairy Microbiology
5	Dairy Economics, Dairy Extension and Management	6	Computer Science, Mathematics and Statistics

Faculty of Fishery Science

1	Aquaculture	2	Fisheries Resource Management
3	Aquatic Environment Management	4	Fisheries Engineering
5	Aquatic Animal Health Management	6	Fisheries Processing Technology
7	Fisheries Extension, Economics and Statistics		

2.3.4. RESEARCH COUNCIL

Research Council constituted to serve as a think tank advisory body of the University and shall advise the Vice-Chancellor and Executive Council on all research matters. The Vice-Chancellor is the *ex-officio* Chairman and Director of Research is *ex-officio* Member Secretary to the Research Council. Eighth meeting of Research Council was organized on 15.02.2020. The Research Council comprised of following members.



Research Council Members 2019-20

Sr. No	Name/Designation	Status
1	Hon'ble Vice-Chancellor, MAFSU, Nagpur	<i>Ex-officio</i> Chairman
2	Director of Research, MAFSU, Nagpur	<i>Ex-officio</i> Member Secretary
3	Dean, Faculty of Veterinary Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
4	Director of Extension Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
5	Dean, Faculty of Lower Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
6	Dean, Faculty of Fishery Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
7	Dean, Faculty of Dairy Technology, MAFSU, Nagpur	<i>Ex-officio</i> Member
8	Dr. Dinesh T. Bhosle Former Chairman CLAFMA, Mumbai – 400021	Nominated Member
9	Dr. H. D. Sarma SO(G), RBHSD Bhabha Atomic Research Centre, Bio-Science Group, Trombay, Bombay – 400085	Nominated Member
10	Dr. Mahesh Bansode Managing Director, Punyashlok Ahilyadevi Maharashtra Mendhi Va Sheli Vikas Mahamandal Ltd.; Mendhi Farm, Gokhle Nagar, Pune – 411016	Nominated Member
11	Dr. Arun Kumar Rawat Director, Department of Biotechnology, Ministry of Science and Technology, Govt. of India Block-2, C.G.O. Complex, Lodhi Road, New Delhi – 110003	Nominated Member
12	Dr. Vijay Makhija Member, Poultry Federation of India, Regional Marketing and Communication APAC-ANH, DSM Nutritional Products, E57-58 Anand Nagar Additional MIDC, Ambernath (E), Thane – 421501 (Mumbai)	Nominated Member
13	Dr. R. D. Kokane Member, Indian Dairy Association 167/A/5344, Kannamwar Nagar, Vikhroli (E), Mumbai – 400083	Nominated Member
14	Dr. Manju Rahi Scientist 'E', Epidemiology & Communicable Diseases, Indian Council of Medical Research, Department of Health Research Ministry of Health & Family Welfare, V. Ramaligaswami Bhawan, Ansari Nagar, New Delhi – 110029	Nominated Member
15	Commissioner of Agriculture Govt. of Maharashtra, Commissionerate of Agriculture Maharashtra State, Central Building, Pune – 411001	<i>Ex-officio</i> Member
16	Commissioner of Animal Husbandry Govt. of Maharashtra, Department of Animal Husbandry, Opposite Spicer College, Aundh, Pune – 411007	<i>Ex-officio</i> Member



17	Commissioner of Dairy Development Govt. of Maharashtra, New Administrative Building Abdul Gaffar Khan Road, Worli Seafac, Mumbai – 400018	<i>Ex-officio</i> Member
18	Commissioner of Fisheries Taraporewala Aquarium, Netaji Subhash Road, Charni Road, Mumbai – 400002	<i>Ex-officio</i> Member
19	Director of Research Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Ratnagiri – 415712	<i>Ex-officio</i> Member
20	Director of Research Vasant Rao Naik Marathwada Agriculture University, Parbhani – 431402	<i>Ex-officio</i> Member
21	Director of Research Mahatma Phule Krishi Vidyapeeth, Rahuri – 413722	<i>Ex-officio</i> Member
22	Director of Research Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola – 444104	<i>Ex-officio</i> Member
23	Associate Dean, Nagpur Veterinary College, Nagpur	<i>Ex-officio</i> Member
24	Associate Dean, Mumbai Veterinary College, Parel, Mumbai	<i>Ex-officio</i> Member
25	Associate Dean, College of Veterinary & Animal Sciences, Parbhani	<i>Ex-officio</i> Member
26	Associate Dean, College of Veterinary & Animal Sciences, Udgir, Dist. Latur	<i>Ex-officio</i> Member
27	Associate Dean, Krantisinh Nana Patil College of Veterinary Science, Shirwal, District Satara	<i>Ex-officio</i> Member
28	Associate Dean, Post Graduate College of Veterinary & Animal Sciences, Akola	<i>Ex-officio</i> Member
29	Associate Dean, College of Dairy Technology, Pusad, District Yavatmal	<i>Ex-officio</i> Member
30	Associate Dean, College of Dairy Technology, Udgir, District Latur	<i>Ex-officio</i> Member
31	Associate Dean, College of Fishery Science, Nagpur	<i>Ex-officio</i> Member
32	Associate Dean, College of Fishery Science, Udgir, District Latur	<i>Ex-officio</i> Member

2.3.5. EXTENSION AND CONTINUING EDUCATION COUNCIL

Extension and Continuing Education Council constituted to serve as a think tank advisory body of the University and shall advise the Vice-Chancellor and Executive Council on all extension education matters. The Vice-Chancellor is the *ex-officio* Chairman and Director of Extension Education is *ex-officio* member Secretary to the Extension and Continuing Education Council. The 12th meeting was held on 28.02.2020. The Extension and Continuing Education Council comprised of following members.

Extension and Continuing Education Council Members 2019-20

Sr. No	Name/Designation	Status
1.	Hon'ble Vice-Chancellor, MAFSU, Nagpur	<i>Ex-officio</i> Chairman
2.	Director, Extension Education, MAFSU, Nagpur	<i>Ex-officio</i> Member Secretary
3.	Director of Research, MAFSU, Nagpur	<i>Ex-officio</i> Member
4.	Dean, Faculty of Veterinary Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
5.	Dean, Faculty of Lower Education, MAFSU, Nagpur	<i>Ex-officio</i> Member
6.	Dean, Faculty of Dairy Technology, MAFSU, Nagpur	<i>Ex-officio</i> Member



7.	Dean, Faculty of Fishery Science, MAFSU, Nagpur	<i>Ex-officio</i> Member
8.	The Secretary Rural Development, M. S. Mantralaya, Mumbai - 400032	<i>Ex-officio</i> Member
9.	The Commissioner, Animal Husbandry, Opp. Spicer Memorial College, Aundh, Pune-411007	<i>Ex-officio</i> Member
10.	The Commissioner Dairy Development, Worli Sea Face, Mumbai - 400018.	<i>Ex-officio</i> Member
11.	The Commissioner Fisheries, Taraporwala Aquarium, Marine Line, Mumbai-400002	<i>Ex-officio</i> Member
12.	The Commissioner Agriculture, M.S. Central Building, Pune-411001	<i>Ex-officio</i> Member
13.	Associate Dean, Post Graduate Institute of Veterinary & Animal Sciences, Akola	<i>Ex-officio</i> Member
14.	Associate Dean, Mumbai Veterinary College, Mumbai	<i>Ex-officio</i> Member
15.	Associate Dean, Nagpur Veterinary College, Nagpur	<i>Ex-officio</i> Member
16.	Associate Dean, College of Veterinary & Animal Sciences, Parbhani	<i>Ex-officio</i> Member
17.	Associate Dean, College of Veterinary & Animal Sciences, Udgir, Dist. Latur	<i>Ex-officio</i> Member
18.	Associate Dean, K.N.P. College of Veterinary & Animal Science, Shirwal, Dist-Satara	<i>Ex-officio</i> Member
19.	Associate Dean, College of Dairy Technology, Warud, Ths. (Pusad), Yavatmal	<i>Ex-officio</i> Member
20.	Associate Dean, Dairy Technology College, Udgir, District Latur	<i>Ex-officio</i> Member
21.	Associate Dean, College of Fishery Sciences, Nagpur	<i>Ex-officio</i> Member
22.	Associate Dean, College of Fishery Sciences, Udgir, District Latur	<i>Ex-officio</i> Member
23.	Director of Extension Education Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola - 444 004	<i>Ex-officio</i> Member
24.	Director of Extension Education Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Distt - Ratnagiri - 415712	<i>Ex-officio</i> Member
25.	Director of Extension Education Vasandra Naik Marathwada Agriculture University, Parbhani.- 431402	<i>Ex-officio</i> Member
26.	Director of Extension Education Mahatma Phule Krishi Vidyapeeth, Rahuri, Dist. Ahmadnagar- 413722	<i>Ex-officio</i> Member
27.	Dr. Randhir Singh, Assistant Director General (Agri. Extension), ICAR, New Delhi.	Nominated Member
28.	Dr. Rajesh Sharma Senior Manager (AN) National Dairy Development Board, Anand-388001 (Gujrat)	Nominated Member
29.	Shri. Atul Bhusari Programme Executive/ Head of Prog., Doordarshan Kendra, Nagpur-440006	Nominated Member
30.	Dr. Mahesh B. Bansode, Managing Director, Punyashloah Ahilyadevi Maharashtra Mendhi Va Sheli Vikas Mahamandal , Pune	Nominated Member
31.	Dr. Dinesh T. Bhosale Past-Chairman of CLFMA of India CLFMA of India, Mumbai - 400 021, India	Nominated Member
32.	Dr. Raja Dudhbade, Managing Director, Atharv Raj Hatcheries, SS-6, Swapnil Sagar Apart, GokulPeth, Nagpur-440 033	Nominated Member
33.	Dr. G. D. Rajorhia President, Indian Dairy Association, IDA House, Sector-IV, R.K. Puram, New Delhi-110 022	Nominated Member



34	Shri. Nilkanth Vitthalrao Kodhe Director Cooperative Society, At Sonapar, Post-Dhapewada, Tal-Kalmeshwar, Dist- Nagpur-441501	Nominated Member
35	Mrs. Prajakta Suresh Dhas Director Women Cooperative Dairy Society, At post Jamgaon, Tal-Ashti, Dist- Beed-414203	Nominated Member
36	Mrs. Kiran Umesh Mahalle 104, Sambhaji Nagar, Amravati-444603, Maharashtra	Nominated Member
37	Dr. Dinesh Bhonde Registrar, Yashwantrao B.Chavan Maharashtra Open University, Dnyagangotri, Gangapur road, Nasik - 422222	Nominated Member
38	Prof. Deeksha Kapoor, Professor School of continuing Education (SOCG) Indira Gandhi National Open University Zakir Hussain Bhawan, Maidan Garhi, New Delhi – 110 068	Nominated Member
39	Shri. Raviprakash R. Korde, Prerna Dairy Farm, Village Kalamana, Umred Road, Nagpur	Nominated Member
40	Shri. Shridhar Shankararo Thakre At. Po.Ta. Ashti (Shahid) Dist. Wardha-442202, Maharashtra	Nominated Member
41	Shri. Sunil Mansinhka Chief Co-ordinator Go-Anusandhan Kendra, Devlapar, Nagpur	Nominated Member
42	Dr. Satender Singh Arya Chief Executive Officer Agriculture Skill Council of India, K-59, South City 9, Gurgaon-122018 (Haryana)	Nominated Member
43	Shri. Ashok Dhote 10, 'Mangalam Kunj', Gadgebaba Society, New Mankapur, Nagpur-440030 (M.S.)	Nominated Member
44	Shri. Vasudeorao Baburaoji Surjuse At. Po.Rajura Bazar, Ta. Warud, Dist. Amaravati, Maharashtra	Nominated Member

2.4. ADMINISTRATION

2.4.1. ESTABLISHMENT

University Statutory Officers and their Selection Process

Sr. No.	Name of the Position (sanctioned)	Name of the Officer (as on 31 st March 2020)	Selection Process
1.	Vice-Chancellor	Dr. A. M. Paturkar	Regular Appointment
2.	Director of Research	Dr. N. V. Kurkure	Additional charge
3.	Director of Extension Education	Dr. P. T. Jadhao	Additional charge
4.	Dean, Faculty of Veterinary Science	Dr. A. P. Somkuwar	Additional charge
5.	Dean, Faculty of Dairy Technology	Dr. P. G. Wasnik	Additional charge
6.	Dean, Faculty of Lower Education	Dr. V. C. Ingle	Additional charge
7.	Registrar	Shri. Chandrabhan Parate	On Deputation from State Govt.
8.	Comptroller	Shri. D. B. Raut	On Deputation from State Govt.
9.	University Engineer	Shri. S. G. Ganorkar	On Deputation from State Govt.
10.	Controller of Examination	Dr. S. W. Bonde	Additional charge
11.	Director Students Welfare	Dr. R. P. Limsay	Additional charge
12.	University Librarian	Dr. S. N. Gawande	Additional charge

**2.4.2. FACULTY AND STAFF STRENGTH****2.4.2.1. Academic Officers**

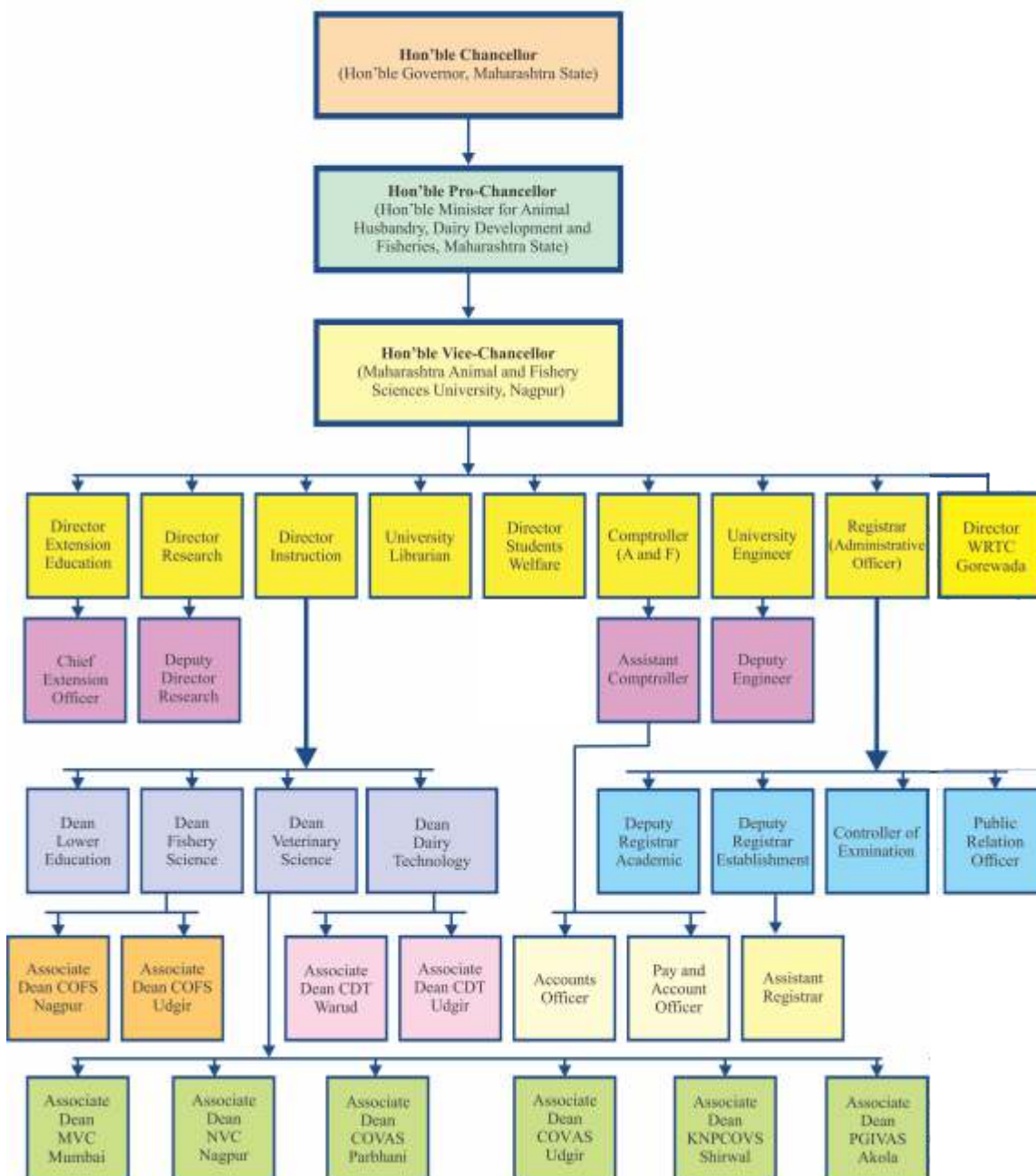
Sr. No.	Establishment	Sanctioned	Filled	Vacant
1.	University Head Quarter, Nagpur	11	1	10
2.	Mumbai Veterinary College, Mumbai	128	68	60
3.	Nagpur Veterinary College, Nagpur	109	61	48
4.	College of Veterinary & Animal Sci., Parbhani	116	58	58
5.	College of Veterinary & Animal Sci., Udgir	80	34	46
6.	KNP College of Veterinary Science, Shirval	85	46	39
7.	Post Graduate Institute of Vet & Ani. Sci., Akola	51	26	25
8.	Dairy Technology College, Warud (Pusad)	36	16	20
9.	Dairy Technology College, Udgir, Dist. Latur	14	9	5
10.	College of Fishery Science, Nagpur	16	10	6
11.	College of Fishery Science, Udgir	15	9	6
12.	Cattle Breeding Farm, Igatpuri	4	1	3
13.	Cattle Breeding Farm, Nagpur	4	4	0
14.	Cattle Breeding Farm, Udgir	4	2	2
15.	Cattle Breeding Farm, Borgaon Manju (Akola)	4	1	3
16.	University Sub-Centre, Udgir	4	3	1
17.	WRTC, Gorewada	9	3	6
	Total (A)	690	352	338

2.4.2.2. Non Teaching Officers / Employees

Sr. No.	Establishment	Sanctioned	Filled	Vacant
1.	University Head Quarter, Nagpur	159	68	91
2.	Mumbai Veterinary College, Mumbai	235	96	139
3.	Nagpur Veterinary College, Nagpur	163	74	89
4.	College of Veterinary & Animal Sci., Parbhani	163	38	125
5.	College of Veterinary & Animal Sci., Udgir	122	33	89
6.	KNP College of Veterinary Science, Shirval	143	58	85
7.	Post Graduate Institute of Vet & Ani. Sci., Akola	79	34	45
8.	Dairy Technology College, Warud (Pusad)	47	17	30
9.	Dairy Technology College, Udgir, Dist. Latur	19	2	17
10.	College of Fishery Science, Nagpur	22	11	11
11.	College of Fishery Science, Udgir, Dist. Latur	17	4	13
12.	Cattle Breeding Farm, Igatpuri	30	6	24
13.	Cattle Breeding Farm, Nagpur	30	7	23
14.	Cattle Breeding Farm, Udgir	25	3	22
15.	Cattle Breeding Farm, Borgaon Manju (Akola)	37	9	28
16.	University Sub-Centre, Udgir	14	4	10
17.	WRTC, Gorewada	11	0	11
	Total (B)	1316	464	852



2.4.3 ADMINISTRATIVE SET UP

ORGANOGRAM

**2.4.4. ESTABLISHMENT FACILITIES**

Facilities at Colleges	MVC, Mumbai	NVC, Nagpur	COVAS, Parbhani	COVAS, Udgir	KNPCVS, Shirwal	PGIVAS, Akola	CDT, Warud	CDT, Udgir	COFS, Nagpur	COFS, Udgir
Anti Ragging Cell	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Biological Waste Disposal Facility	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal Quality Assurance System,	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Committee For Prevention of Sexual Harassment of Women at Work Places	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Institutional Ethics Committee for Experiment on Animals	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes

2.4.5. HOSTEL

Majority of students pursuing degrees in all the constituent colleges of University are belonging to places other than the location of colleges. The University is making all efforts to provide accommodation to boys and girl students of different constituent colleges and also to enhance existing capacities of existing hostels.

Students Accommodated in Hostels.

Name of Colleges	Boys Hostel			Girls Hostel		
	Name of Hostel	No. of rooms	No. of students	Name of Hostel	No. of rooms	No. of students
MVC, Mumbai	Old Hostel, Parel	28	NIL	Parel	24	52
	U.G. Boys Hostel, Parel	30	111	Goregaon	16	70
	P.G. Boys Hostel, Parel	43	84			
NVC, Nagpur	U.G. Hostel	102	210	Babu Jagjivan Ram Girls Hostel	16	46
	P.G. Hostel	15	19		47	87
COVAS, Parbhani	Gokul	122	210	Vrundavan	62	129



COVAS, Udgir	Nakul Boy's Hostel	60	135	NA	NA	NA
KNPCVS, Shirwal	Subanmangal Boys Hostel	72	154	KrantiJyoti Girls Hostel	21	51
				C Type Quarter Girls Hostel	4 Quarters	11
PGIVAS, Akola	-	-	-	Rajmata Jijau Hostel	10	25
CDT, Warud	Adinath Boys Hostel (UG)	09	25	Mauli Girls Hostel (UG)	08	16
COFS, Nagpur	-	-	-	Babu Jagjivan Ram Girls Hostel (Under NVC Nagpur)	19	12

2.4.6. LIBRARY

Central library facility is available at MAFSU headquarter, Nagpur which furnishes the need of students of Nagpur Veterinary College, Nagpur, College of Fishery Science, Nagpur and students from other constituent colleges.

Sr. No.	Name of College	Item	Number of Books Available	New Books Purchased / added
1.	University Library and Information Centre, MAFSU, Nagpur	Print Books	35,525	2751
		E-Books	741	Nil
		Print Journals	64	23
		E-Journals	52	52
		Other Publications (Thesis & Bound Volumes)	8,348	164
		Electronic Database	* CD – Rom Databases: – VET, BEST, FSTA * FSTA (1969 to March, 2017 CD) * FSTA (1969 to March, 2017 CD)	Nil
2	MVC, Mumbai	Books	20665	322
		Journals	Nil	Nil
		Other Publications	1545	80
		Electronic Database	Nil	Nil
3	COVAS, Parbhani	Books	9449	578
		Journals	22	22
		Other Publications (Thesis & Bound Volumes)	1831	24
		Electronic Database	02	Nil
4	COVAS, Udgir	Books	283	7240
		Journals	0	267



		Other Publications (Thesis & Bound Volumes)	0	77
		Electronic Database	0	0
5	KNPCVS, Shirwal	Books	7737	286
		Journals	6	Nil
		Other Publications	168	17
		Electronic Database	00	00
6	PGIVAS, Akola	Books	2889	220
		Journals	05	-
		Other Publications	380	-
		Electronic Database	22	-
7	CDT, Warud	Books	7734	270
		Journals	05	Nil
		Other Publications	144	Nil
		Electronic Database	3333	Nil
8	CDT, Udgir	Books	4324	418
		Journals	17	11
		Other Publications	Nil	Nil
		Electronic Database	Nil	Nil
9	COFS, Udgir	Books	4016	353

Electronic database is available to College Libraries through connectivity (IP Based) from University Library, MAFSU, Nagpur.

2.4.7. IT FACILITIES

Facilities at Colleges	MVC, Mumbai	NVC, Nagpur	COVAS, Parbhani	COVAS, Udgir	KNPCVS, Shirwal	PGIVAS, Akola	CDT, Warud	CDT, Udgir	COFS, Nagpur	COFS, Udgir
Internet Facility (Use of ICT Tools)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Virtual Classroom / Smart Classroom	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Language Laboratory	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital College Library	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes



2.4.8. WEBSITE

The MAFSU website is restructured to suit the need of all the stakeholders including the farming community. Apart from all information related with the education, research and extension, it has some unique features like extension literature in the form of posters, books and manuals for the farmers on various issues from animal husbandry including poultry, dairy technology and fisheries. It also has success stories of farmers, advisory for the farmers and information related with animal husbandry, dairy technology and fisheries in the form of frequently asked questions. It also has University publication like MAFSU VARTA besides Godhuli, Jalcharika illustrative booklets for dairy and fisheries. All institutes of MAFSU are linked with the University website.

All the institutions of the University has a website. The list is given below.

- | | | |
|-----|--|--|
| 1. | Maharashtra Animal and Fishery Sciences University, Nagpur : | www.mafsu.in |
| 2. | Mumbai Veterinary College, Mumbai : | www.bvc.org.in |
| 3. | Nagpur Veterinary College, Nagpur : | www.nvcnagpur.net.in |
| 4. | College of Veterinary and Animal Science, Parbhani : | www.covaspbn.co.in |
| 5. | KNP College of Veterinary Science, Shriwal : | www.knpvc.in |
| 6. | College of Veterinary and Animal Science, Udgir : | www.vcudg.in |
| 7. | Post Graduate Institute of Veterinary & Animal Sciences, Akola : | www.pgivasakola.in |
| 8. | Dairy Technology College, Warud (Pusad) : | www.cdtpusad.in |
| 9. | College of Dairy Technology, Udgir : | www.cdtudgir.co.in |
| 10. | College of Fishery Science, Nagpur : | www.cofsnagp.org |
| 11. | College of Fishery Science, Udgir : | www.cofsu.in |



3 SUPPORTING UNITS

- Advisory Council of Associate Deans of Constituent Colleges (10 Colleges)
- Board of Examination
- Grievance Committee for the University Employees
- Standing Committee for Finance, Budget, Development and Planning
- Committee for Library and Information Centre
- Student's Welfare Committee
- University Employees Welfare Committee
- Works Committee
- Legal Committee
- Special cell for scheduled castes and scheduled tribes



4

CONSTITUENT COLLEGES

Sr. No.	Name of College	Year of Establishment	Courses offered
1.	Mumbai Veterinary College, Mumbai	1886	BVSc & AH, MVSc, PhD
2.	Nagpur Veterinary College, Nagpur	1958	BVSc & AH, MVSc, PhD
3.	College of Veterinary and Animal Sciences, Parbhani	1972	BVSc & AH, MVSc, PhD
4.	College of Veterinary and Animal Sciences, Udgir	1987	BVSc & AH, MVSc, PhD
5.	KNP College of Veterinary and Animal Sciences, Shirwal	1988	BVSc & AH, MVSc, PhD
6.	Post Graduate Institute of Veterinary and Animal Sciences, Akola	1969	MVSc, PhD
7.	College of Dairy Technology, Warud	1992	B.Tech. (Dairy Technology), M. Tech
8.	College of Dairy Technology, Udgir	2008	B.Tech. (Dairy Technology)
9.	College of Fishery Science, Nagpur	2006	BFSc
10.	College of Fishery Science, Udgir	2007	BFSc



5 EDUCATION

5.1. HIGHER EDUCATION

Maharashtra Animal and Fishery Sciences University is imparting five and half years degree as Bachelor of Veterinary Science and Animal Husbandry (B.V.Sc. & A.H.), as per the Minimum Standards of Veterinary Education-2016 (MSVE-2016) prescribed by the Veterinary Council of India, New Delhi. Two years master's degree as Master of Veterinary Science (M.V.Sc.) in all the disciplines of Veterinary and Animal Sciences, as per the guidelines prescribed by the Indian Council of Agricultural Research, New Delhi are offered. Doctorate (Ph.D.) of three years duration for regular candidate and four years duration Doctorate (Ph.D.) for in-service MAFSU employees is offered in many disciplines in the constituent colleges. Four years degree programme as Bachelor of Fishery Science (B.F.Sc.) is being imparted through Fishery Science Colleges and four years degree programme as Bachelor of Technology (Dairy Technology) [B.Tech. (DT)] through Dairy Technology Colleges of the University, as per the recommendations of V Deans' Committee approved by ICAR, New Delhi.

The students are not only pursuing degrees but also getting hands on training through internship training programme, fisheries industrial and rural work experience programme and in-plant trainings being implemented by various faculties. This has developed a dynamic system of education to train students and mould them into self-employers and entrepreneurs and to that extent develop their capacities both in terms of infrastructure and skills; with changing needs of society. The University is emphasizing to make it more skill-learning-based, problem-solving and self-exploratory so as to inculcate in the students spirit of entrepreneurship and business-approach to services so that they can respond to emerging challenges of market. The educational avenues are open not only for students of India but also for current undergraduate and post-graduate courses to foreign nationals and NRIs.

5.1.1. ELIGIBILITY, INTAKE CAPACITY AND ADMISSIONS

- **FACULTY OF VETERINARY SCIENCE**

1. **B.V.Sc. & A.H.-**

Candidates who have passed XII Std. (10 + 2) with 50% marks for Unreserved category and 47.50% marks for Reserved category in Physics, Chemistry, Biology or Biotechnology and English taken together and have appeared for National Eligibility Cum Entrance Test NEET (UG) conducted by National Testing Agency, New Delhi are eligible for admission to B.V.Sc. & A.H. degree course.



Admission Strength, Admitted Students for B.V.Sc. & A.H. Degree Course for the year 2019-20

Cast Category	NVC, NAGPUR			MVC, MUMBAI			COVAS, PARBHANI			COVAS, UDGIR			KNPCVC, SHIRWAL			TOTAL		
Intake capacity	68+12*+1#			85+15*+3** +1#			68+12*+1#			54+10*+1#			51+9*+3** +1#			326+58*+ 6**+5#+10@		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
SC	5	5	10	6	6	12	6	3	9	5	2	7	4	2	6	26	18	44
ST	3	2	5	2	2	4	2	2	4	2	2	4	3	1	4	12	9	21
VJ/DT(a)	1	1	2	2	3	5	1	2	3	3	0	3	1	0	1	8	6	14
NT(b)	1	1	2	2	0	2	2	0	2	1	0	1	0	1	1	6	2	8
NT(c)	1	1	2	3	1	4	1	2	3	2	1	3	5	0	5	12	5	17
NT(d)	2	0	2	1	0	1	4	2	6	2	0	2	0	1	1	9	3	12
OBC	14	7	21	13	7	20	11	7	18	9	6	15	9	5	14	56	32	88
SBC	3	0	3	2	0	2	0	0	0	1	0	1	0	0	0	6	0	6
SEBC	7	2	9	7	3	10	8	3	11	5	3	8	6	2	8	33	13	46
EWS	6	2	8	4	4	8	5	2	7	3	2	5	4	2	6	22	12	34
UNRESERVED	7	2	9	10	14	24	12	0	12	6	3	9	7	2	9	42	21	63
NRI / FN / PIO-HSSC studied in India	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRI / FN / PIO-HSSC studied Abroad	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	1	2
GOA**	0	0	0	0	2	2	0	0	0	0	0	0	1	1	2	1	3	4
J&K#	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1
NRI / FN / PIO@	1	0	1	2	4	6	0	0	0	0	0	0	1	0	1	4	4	8
VCI*	7	0	7	6	2	8	2	3	5	6	0	6	3	2	5	24	7	31
Total	59	23	82	60	50	110	54	26	80	45	19	64	44	19	63	262	137	399

*=VCI, **=GOA, #=J&K, @ =NRI/FN/PIO

M=Male, F=Female, T=Total

PIO: Person of Indian Origin, NRI: Non Resident Indian, FN: Foreign National, UR: Unreserved

2. M.V.Sc.-

The candidates who have passed B.V.Sc. & A.H. with CGPA 6.00 for Unreserved category and 5.50 for Constitutionally Reserved category in 10.00 point scale are eligible for admission to M.V.Sc. Degree Course.



Admission Strength, Admitted Students for M.V.Sc. Degree Course for the year 2019-20

Cast Category	NVC, NAGPUR			PGIVAS, AKOLA			MVC, MUMBAI			KNPCVC, SHIRWAL			COVAS, PARBHANI			COVAS, UDGIR			TOTAL		
Intake capacity	28+9*+2@			27+9*+1@			38+13*+3@			28+8*+2@			40+8*+1@			23+7*+1@			184+54* 10@+12\$		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
SC	2	1	3	2	2	4	2	3	5	1	0	1	4	1	5	0	0	0	11	7	18
ST	0	1	1	0	0	0	1	1	2	0	1	1	2	1	3	0	0	0	3	4	7
VJ/DT(a)	1	1	2	1	1	2	3	1	4	1	0	1	0	2	2	1	1	2	7	6	13
NT(b)	1	0	1	0	1	1	1	0	1	0	0	0	1	0	1	1	1	2	4	2	6
NT(c)	0	1	1	2	1	3	1	1	2	1	0	1	3	1	4	1	1	2	8	5	13
NT(d)	0	0	0	1	0	1	1	1	2	2	0	2	1	1	2	0	0	0	5	2	7
OBC	3	2	5	3	2	5	4	2	6	1	4	5	6	3	9	2	1	3	19	14	33
SBC	0	0	0	1	0	1	0	0	0	0	1	1	0	1	1	0	0	0	1	2	3
SEBC	1	1	2	3	0	3	3	0	3	1	1	2	2	2	4	1	0	1	11	4	15
EWS	0	0	0	0	0	0	1	0	1	2	0	2	4	1	5	1	0	1	8	1	9
UNRESERVED	3	3	6	4	2	6	9	4	13	3	5	8	0	0	0	6	1	7	25	15	40
NRI / FN / PIO Quota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRI / FN / PIO Quota (SML)	0	1	1	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	4	4
ICAR	1	3	4	1	2	3	2	6	8	1	1	2	2	1	3	0	0	0	7	13	20
State Govt. In-Service	0	0	0	1	1	2	1	0	1	1	0	1	0	0	0	1	0	1	4	1	5
Total	12	14	26	19	12	31	29	22	51	14	13	27	25	14	39	14	5	19	113	80	193

* ICAR, @NRI/FN/PIO and \$: State Government In-service candidate

M = Male, F = Female, T = Total

3. Ph.D.

All the desirous candidates (Regular and In-service) must have passed M.V.Sc. Degree Course with CGPA 7.00 and 6.50 in 10.00 point scale for Unreserved and Reserved Category respectively and should have appear for the "MAFSU Ph.D. Entrance Test" conducted by MAFSU, Nagpur.



Ph.D. intake capacity -2019-20

College	University seats	ICAR seats	NRI/FN/PIO over and above intake capacity
Nagpur Veterinary College, Nagpur	20	6	10
Post Graduate Institute of Veterinary & Animal Sciences, Akola	6	3	
Mumbai Veterinary College, Mumbai	19	6	
KNP College of Veterinary & Animal Sciences, Shirwal	6	1	
College of Veterinary & Animal Sciences, Parbhani	10	2	
College of Veterinary & Animal Sciences, Udgir	3	1	
Total	64	19	10

- FACULTY OF DAIRY TECHNOLOGY (B.Tech (DT))**

- B.Tech. (D.T.)-**

Candidates who have passed XII Std. (10 + 2) with 50% marks for Unreserved category and 40% marks for Reserved category in Physics, Chemistry, Biology and English taken together are eligible for admission to B.F.Sc. Degree Course. Further, the candidates should have also appeared for MHT-CET conducted by State CET Cell, Mumbai.

Admission Strength, Admitted Students for B.F.Sc. Degree Course for the year 2019-20

Cast Category	CDT, UD GIR			CDT, WARUD			TOTAL		
Intake capacity	27+1#			27+1#			54+2#+10\$+10@		
	M	F	T	M	F	T	M	F	T
SC	3	1	4	2	1	3	5	2	7
ST	0	0	0	1	1	2	1	1	2
VJ/DT(a)	0	1	1	1	0	1	1	1	2
NT(b)	0	1	1	1	0	1	1	1	2
NT(c)	1	0	1	0	1	1	1	1	2
NT(d)	1	0	1	0	0	0	1	0	1
OBC	7	3	10	7	3	10	14	6	20
SBC	1	0	1	0	0	0	1	0	1
SEBC	7	2	9	2	2	4	9	4	13
EWS	2	0	2	2	1	3	4	1	5
UNRESERVED	2	0	2	2	0	2	4	0	4
ICAR Quota	0	0	0	4	1	5	4	1	5
NRI Quota	0	0	0	0	0	0	0	0	0
Total	24	8	32	22	10	32	46	18	64

#J&K, \$ICAR and @NRI/FN/PIO

M=Male, F= Female, T = Total



- FACULTY OF FISHERY SCIENCE**

- 1. B.F.Sc.-**

Candidates who have passed XII Std. (10 + 2) with 50% marks for Unreserved category and 40% marks for Reserved category in Physics, Chemistry, Biology and English taken together are eligible for admission to B.F.Sc. Degree Course. Further, the candidates should have also appeared for MHT-CET conducted by State CET Cell, Mumbai.

Admission Strength, Admitted Students for B.F.Sc. Degree Course for the year 2019-20

Cast Category	COFS, NAGPUR			COFS, UDGIR			TOTAL		
Intake capacity	27+1#			27+1#			54+2#+10\$+10@		
	M	F	T	M	F	T	M	F	T
SC	2	3	5	3	2	5	5	5	10
ST	0	2	2	0	0	0	0	2	2
VJ/DT(a)	1	1	2	2	0	2	3	1	4
NT(b)	2	0	2	2	0	2	4	0	4
NT(c)	0	1	1	0	2	2	0	3	3
NT(d)	2	0	2	0	0	0	2	0	2
OBC	2	6	8	5	1	6	7	7	14
SBC	0	0	0	0	1	1	0	1	1
SEBC	3	1	4	2	1	3	5	2	7
EWS	1	0	1	3	0	3	4	0	4
UNRESERVED	0	1	1	3	5	8	3	6	9
ICAR Quota	2	2	4			0	2	2	4
NRI Quota	0	0	0	0	0	0	0	0	0
Total	15	17	32	20	12	32	35	29	64

#J&K, \$ICAR and @NRI/FN/PIO

M=Male, F= Female, T = Total

5.1.2. DEGREES AWARDED

List of Passed out Student in Academic Year 2019-20

- B. V. Sc. & A. H.**

Name of College	Open		OBC		SC		ST		VJ/DT(a)/NT		SBC		Total		
Gender	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
NVC, Nagpur	16	7	15	5	4	3	2	2	10	6	1	0	48	23	71
MVC, Mumbai	31	23	3	5	3	3	0	0	5	2	0	0	42	33	75
COVAS, Parbhani	15	4	10	3	5	2	0	2	5	8	0	0	35	19	54
KNPCVS, Shirwal	9	8	4	4	3	0	0	1	6	0	0	0	22	13	35
COVAS, Udgir	10	3	4	3	5	2	1	1	4	0	0	2	24	11	35
Total	81	45	36	20	20	10	3	6	30	16	1	2	171	99	270



- B. Tech (D.T.)**

Name of College	Open		OBC		NT		VJ/DTa/NT		SC		ST		Total		
Gender	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
CDT, Warud	12	0	4	4	4	0	1	1	1	2	0	1	22	8	30
CDT, Udgir	11	5	9	2	3	1	1	0	1	1	0	0	25	9	34
Total	23	5	13	6	7	1	2	1	2	3	0	1	47	17	64

- B. F. Sc.**

Name of College	Open		OBC		SC		ST		VJ/DT(a)/NT		SBC		Total		
Gender	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
COFS, Nagpur	5	5	3	1	6	4	2	1	3	3	0	1	19	15	34
COFS, Udgir	7	3	5	3	3	1	1	2	2	1	0	1	18	11	29
Total	12	8	8	4	9	5	3	3	5	4	0	2	37	26	63

- M.V.Sc.**

Name of College	Open		OBC		SC		ST		VJ/DT(a)/NT		SBC		Total		
Gender	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
NVC, Nagpur	7	6	3	3	2	3	0	1	0	0	0	0	12	13	25
MVC, Mumbai	9	18	3	3	2	3	0	1	5	1	0	0	19	26	45
COVAS, Parbhani	3	5	3	1	3	1	1	1	5	2	0	0	15	10	25
PGIVAS, Akola	3	1	6	2	1	4	0	0	3	4	0	0	13	11	24
KNPCVS, Shirwal	5	1	3	3	1	2	1	0	2	0	0	0	12	6	18
COVAS, Udgir	1	0	1	0	0	1	0	0	3	0	0	0	5	1	6
Total	28	31	19	12	9	14	2	3	18	7	0	0	76	67	143

- Ph.D.**

Name of College	Open		OBC		SC		ST		VJ/DT(a)/NT		SBC		Total		
Gender	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
NVC, Nagpur	0	0	2	2	0	0	0	0	0	0	0	0	2	2	4
MVC, Mumbai	1	1	0	1	3	0	0	0	0	0	0	0	4	2	6
COVAS, Parbhani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGIVAS, Akola	0	1	0	0	0	0	1	0	0	0	0	0	1	1	2
KNPCVS, Shirwal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COVAS, Udgir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	2	2	3	3	0	1	0	0	0	0	0	7	5	12

**5.1.3. CLASSROOMS AND LABORATORIES**

	MVC, Mumbai	NVC, Nagpur	COVAS, Parbhani	COVAS, Udgir	KNPCVS, Shirwal	PGIVAS, Akola	CDT, Warud	CDT, Udgir	COFS, Nagpur	COFS, Udgir
Classrooms	5	4	05	04	04	03	04	04	04	03
Smart classrooms	2	4	05	01	02	03	04	02	01	01
Laboratories	18	18	36	40	35	11	24	20	08	06
Library	2	-	01	01	01	01	01	01	-	01

❖ College Library of NVC, Nagpur and COFS, Nagpur is merged with University Library at Nagpur

5.1.4. FACILITIES FOR STUDENTS

Facilities at Colleges	MVC, Mumbai	NVC, Nagpur	COVAS, Parbhani	COVAS, Udgir	KNPCVS, Shirwal	PGIVAS, Akola	CDT, Warud	CDT, Udgir	COFS, Nagpur	COFS, Udgir
Student Ready/ In-Plant Training / Internship / Experiential Learning Programmes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
NCC	No	Yes	No	No	No	No	No	No	Yes	No
NSS	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
RVC Units	No	Yes	No	No	No	No	No	No	No	No
Cultural Center	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Personality Development Programme	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Examination Hall	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sports and Recreation Facilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auditorium	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes
Exhibition Hall/ Museum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Placement Cell	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



5.2. LOWER EDUCATION

The Faculty of Lower Education of Maharashtra Animal & Fishery Sciences University, Nagpur, was established on 10. 02. 2002 as per University Act 1998 chapter six sr. no. 36, 37 and 38. After establishment of Faculty of Lower Education under this university, 42 diploma schools from four Agriculture Universities in Maharashtra State were transferred to this University.

Forty non granted private diploma schools were running Dairy Management and Animal Husbandry (DMAH) diploma course and two granted Arey and Dapchery diploma institutes are of Dairy Development Department, Govt. of Maharashtra imparting Diploma in Dairy Technology. Only academic matter is under control of this university. Dapchery diploma institute was transferred in closed condition. Presently one diploma institute, Arey Mumbai is imparting diploma which is after 12th standard with English medium.

In addition to above 40 non-granted private diploma schools which were transferred to this University, permission was given to new other 112 non-granted private diploma schools during the year 2002 - 2003. Thus the two year DMAH diploma course was running throughout the Maharashtra State.

The University had discontinued the Dairy Management and Animal Husbandry diploma course from the academic year 2006 – 07 at the behest of Hon'ble Supreme Court judgment on the plea of VCI. The new two year diploma, Livestock Management and Dairy Production (LMDP) has been started from 2006-07 in Marathi language after passing S. S. C. Examination. This diploma course has been started with a view to start self employment and to create the semi technical supporting manpower in livestock sector.

From the academic year 2013-14, the syllabus of LMDP diploma course was little modified by inclusion of 200 marks Artificial Insemination subject in second year of diploma curriculum.

Diploma schools of private education societies imparting LMDP diploma course. Seven constituent veterinary / dairy technology colleges of this university are coordinating centers for controlling activities of lower educational diploma schools. These coordinating centers are assisting Lower Education Faculty for admissions, examination, result declaration, diploma certificate distribution, fees deposition, re-recognition to diploma schools and monitoring all other academic activities related to diploma schools.

5.2.1. STUDENT INTAKE CAPACITY/ADMITTED/RECEIVED DIPLOMA:

Sr No	Region/ constituent college	Number of schools (2019-20)	Student intake capacity / admitted (1st yr) (2019-20)		Number of students received diploma in year (2019-2020)
			Intake capacity	Admitted	
1	7 colleges	100	100x60 = 6000	4865	3124

5.2.2. STUDENTS ON ROLL (LOWER EDUCATION) (YEAR-WISE):

Category	I year		II year	
	Male	Female	Male	Female
Open	1211	58	867	30
OBC	742	50	712	44
SC	937	193	671	157
ST	296	64	262	57
VJ/DT (a)/NT	1231	83	971	79
Total	4417	448	3483	367



5.2.3. DISTRIBUTION OF LOWER EDUCATION SCHOOLS

Throughout the Maharashtra State One Hundred diploma schools were granted recognition to run the diploma course of Lower Education for the academic year 2019-20.

(i) Constituent colleges wise distribution of schools

Sr.No.	Controlling veterinary / dairy colleges	Schools
1	Nagpur Veterinary College, Nagpur	09
2	Mumbai Veterinary College, Mumbai	18
3	KNP, College of Veterinary College	17
4	College of Veterinary & Animal Sciences, Parbhani	20
5	College of Veterinary & Animal Sciences, Udgir	15
6	Post Graduate Institute of Veterinary and Animal Sciences, Akola	14
7	Dairy Technology College, Warud (Pusad)	07
	Total	100

(ii) Region wise distribution of schools

Sr.No.	Region	Region / District wise distribution of diploma schools	Schools
1	Nagpur	Nagpur	02
2	Nagpur	Wardha	01
3	Nagpur	Bhandara	03
4	Nagpur	Gondia	02
5	Nagpur	Gadchiroli	01
6	Nagpur	Chandrapur	00
		Total	09
7	Amravati	Yavatmal	04
8	Amravati	Amaravati	04
9	Amravati	Akola	05
10	Amravati	Washim	01
11	Amravati	Buldhana	02
		Total	16
12	Nashik	Dhule	02
13	Nashik	Nashik	04
14	Nashik	Jalgaon	03
		Total	09
15	Mumbai	Thane	01
16	Mumbai	Raigarh	01
17	Mumbai	Sindudurgu	01
		Total	03
18	Pune	Pune	02
19	Pune	Satara	04
20	Pune	Kolhapur	05



21	Pune	Sangli	05
22	Pune	Solapur	02
		Total	18
23	Aurangabad	Aurangabad	07
24	Aurangabad	Ahamadnagar	13
25	Aurangabad	Jalna	02
26	Aurangabad	Hingoli	03
27	Aurangabad	Parbhani	01
		Total	26
28	Latur	Bid	04
29	Latur	Nanded	07
30	Latur	Usmanabad	03
31	Latur	Latur	05
		Total	19
	Grand Total		100



6 STUDENTS DEVELOPMENT

6.1. SCHOLARSHIPS / FELLOWSHIPS

The government provides financial assistance to poor and deserving students for getting vocational and technical education. Scholarships/ Fellowships are awarded to as many students as possible. Besides, private organizations are also providing scholarship to the students.

Sr. No.	Name of the College	2019-20 (No. of Students)					
		NTS		GOI Scholarships/ Freeships	Other Scholarships	Rajashree Shahu Maharaj Shikshan Shulka Paratipurti Yojna	Dr. Panjabrao Deshmukh Vastigruha Nirvah Bhatta Yojna
		UG	PG				
1.	MVC, Mumbai	20	06	283	27	48	26
2.	NVC, Nagpur	30	07	185	19	44	37
3.	COVAS, Parbhani	36	03	199	143	74	49
4.	COVAS, Udgir	14	01	168	100	66	21
5.	KNP CVS, Shirwal	13	0	197	02	57	43
6.	PGIVAS, Akola	NA	NA	40	00	05	00
7.	CDT, Warud	02	NA	74	32	22	06
8.	CDT, Udgir	0	NA	66	31	28	00
9.	COFS, Nagpur	0	NA	79	4	06	04
10.	COFS, Udgir	05	NA	76	26	21	04
	Total	120	17	1367	384	371	190



6.2. STUDENTS PERFORMANCE IN NATIONAL EXAMINATIONS

Name of College	SRF	JRF	NET
MVC, Mumbai	-	05	-
NVC, Nagpur	-	-	02
COVAS, Parbhani	-	01	03
COVAS, Udgir	-	03	-
PGIVAS, Akola	03	-	04
CDT, Udgir	-	02	-

6.3. NSS / NCC ACTIVITIES

The Directorate of Students Welfare plays important role in the overall development of students through organization and participation in various co-curricular activities like sports and games, cultural events and research competitions. Directorate meticulously works towards showcasing the potential of the students which created a treasure of talents and resulted in enthusiastic participation of the University in various all India Level Competitions.

6.3.1. STUDENTS ACTIVITIES UNDER NSS

INTER UNIVERSITY / INTER STATE / NATIONAL / ICAR LEVEL GAMES, SPORTS, RESEARCH & CULTURAL COMPETITIONS

Sr. No.	Sports / Games Name	Games / Sports	Date	No. of Participating Students		Host Institute
				Boys	Girls	
1.	Indradhanushya 2019-20	Mah. State Inter University Cultural Event	02.12.19 to 06.12.19	16	16	Gondwana University, Gadchiroli)
2.	Krida Mahotsav 2019-20	Mah. State Inter University Youth Festival	26.12.19 to 30.12.19	56	27	Solapur University, Solapur
3.	Avishkar 2019-20	Mah. State Inter University Research Convention	28.01.20 to 31.01.20	09	02	Mumbai University, Mumbai
4.	Chess 2019-20 (M)	All India West Zone Inter University Events	10.11.19 to 12.11.19	05	-	Poornima University, Jaipur
5.	Chess 2019-20 (W)		29.11.19 to 30.11.19	-	05	Barkatullah University, Bhopal
6.	Badminton 2019-20 (M)		02.01.20	05	-	Swami Ramanand



			to 05.01.20			Teeth Marathwada University, Nanded
7.	Badminton 2019-20 (W)		25.11.19 to 29.11.19	-	05	Kota University, Kota
8.	Agriunisports – 2019-20 (Table Tennis (M/W))	ICAR Inter University Events	01.03.19 to 05.03.19	05	04	Shri Venkateswara Veterinary University, Tirupati
			Total	96	59	

6.3.2. NATIONAL SERVICE SCHEME (NSS) ACTIVITIES

1. Name of the University : Maharashtra Animal and Fishery Sciences University, Nagpur
2. Name of Programme Coordinator : Dr. R. P. Limsay
3. Total No. of Colleges/Schools in University/Directorate having NSS : 09 No. Government Institution having NSS- 09 ; NSS Strength -1000
4. NSS Strength allocated under Regular Activities by State Govt. for the Year : 1000 Total No. of NSS units in University /+ 2 Directorate: 13
Actual Enrolment during the Year : Male- 627, Female -337 ,Total -964
Category wise Enrolment : SC -144 ,ST- 58, OBC- 305, Minority -40, Others- 417
5. Total No. of NSS Prog. Officers : Male -08, Female- 01, Total -09
6. Blood Donation Camps

No. of camps held	No. of NSS participants/ Blood donors			No. of Blood Bottles/ unit donated / collected
	Male	Female	Total	
09	324	86	410	357

7. Tree Plantation

No. of saplings/trees planted	No. of NSS Volunteers involved		
	Male	Female	Total
1163	503	255	758

8. Education & Health Awareness/ Camps Programme if any :

Activity	No of Programme/ camps/ activity organized	No. of NSS Volunteers involved		
		Male	Female	Total
Disaster Management Training	04	50	56	106
Self Defense Training for Girls	04	00	123	123
Road Safety Campaign/ Camp	05	90	52	142
Yoga Training / Demonstration if any	20	509	227	736
Eye check-up camps	01	10	10	20



Health Camps/Dental		31	395	288	683
Prevention of Diseases (Awareness)	Rallies	18	533	249	782
	Organizing functions	13	302	154	456
	Street Plays	18	178	63	241
	Door-to-door Campaigns	19	288	140	428
	Distribution of IEC Materials	03	114	44	158
	Distribution of iron and/folic Acid Tablets	01	22	08	30
	Facilitating institutionalized Deliveries of women	01	02	287	289
Swachha Bharat ,People's involvement and sustainability					
Activity		No of Programme/ camps/ activity organized	No. of NSS Volunteers involved		
			Male	Female	Total
Swachha Bharat Abhiyan	Cleaning of school, collages	103	710	373	1083
	Cleaning of hospital / PHCs	29	347	230	577
	Cleaning of Offices complexes, toilets and garbage of District & zonal Office	21	243	131	374
	Cleanliness drive to clean street and common places	22	413	217	630
	Maintenance & repair of cremation grounds and play grounds	07	274	83	357
Activity		No of Programme/ camps/ activity organized	No. of NSS Volunteers involved		
			Male	Female	Total
Farmer Centric/ Agriculture based activity like organic farming any demonstration /training if any		56	513	198	711
Programmes on Conservation of water/ Water Harvesting/ watershed development		05	166	67	233
Shramadan Programme by NSS during the year		No of Shramdan Programmes organized 64	735	374	1109
Energy Efficiency and Conservation , Employment Generation Strategies					
Activity		No of Programme/ camps/ activity organized	No. of NSS Volunteers involved		
			Male	Female	Total
Program on energy efficiency/ conservation (pl mention activity)	Deployment of super Efficient Appliances	01	30	10	40
	Promoting use of solar Energy	01	22	08	30
	Energy conservation- a people's Movement (LED Bulb sale campaign)	02	72	28	110



Programmes on Employment Generation Strategies/ career Counselling	22	606	305	911
Skill Development Training	37	329	153	482

6.3.3. COLLEGE WISE ADOPTED VILLAGES UNDER NSS

Sr. No	Name of the college/Institution/ School	No of Volunteers participated in Special camp	Dates/Period of Special Camp if conducted	Adopted village/slum
1.	Mumbai Veterinary College, Mumbai	104	24.02.2020 to 01.03.2020	Harkul (Bk.), Tq. Kankawli, Dist. Sindhudurg
2.	Nagpur Veterinary College, Seminary Hills, Nagpur	79	16.11.2019 to 22.11.2019	Ambhora, Silly, Aptur, Hewati, Kalamana, Umred, Nagpur
3.	KNP College of Veterinary Sciences, Shirwal	64	26.02.2020 to 03.03.2020	Ahire, Tq. Khandala, Dist. Satara
4.	College of Veterinary & Animal Science, Parbhani	-	Scheduled camp could not held due to lockdown	Sayala Khating Tq & Dist Parbhani
5.	College of Veterinary & Animal Science, Udgir	56	08.03.2020 to 14.03.2020	Kumdal, Tq. Udgir, Dist. Latur
6.	Dairy Technology College, Warud	35	24.02.2020 to 01.03.2020	Yeranda, Tq. Pusad, Dist. Yavatmal
7.	Dairy Technology College, Udgir	30	02.03.2020 to 08.03.2020	Pimpri, Tq. Udgir, Dist. Latur
8.	College of Fishery Science, Nagpur	35	02.03.2020 to 08.03.2020	Pench, Tq. Parseoni, Dist. Nagpur
9.	College of Fishery Science, Udgir	30	14.02.2020 to 20.02.2020	Awalkonda, Tq. Udgir, Dist. Latur

6.3.4. (MAH) REMOUNT AND VETERINARY SQUADRON, NCC UNIT 2019-20

Sr. No.	Type of Examination	Number of Students Passed
1.	B Certificate Examination	71 cadets appeared. Result is awaited.
2.	C Certificate Examination	7 cadets appeared. Result is awaited.



Sr. No.	Camps		
	Place	Number of Students Participated	
		Male	Female
1.	Kolhapur (Shivaji Trekking Camp)	05	-
2.	Gwalior (RCTC)	04	-
3	Nagpur (Combined Annual Training Camp)	82	31
4	New Delhi (Republic Day Camp)	03	02

6. 4. STUDENTS PLACEMENT PROFILE: 2019-20

Name of College	Government Service	Private Industry	Self-employed	NGO's & Other Institutions
NVC, Nagpur	-	02	-	04
COVAS, Parbhani	02	13	09	02
COVAS, Udgir	-	5	7	-
KNPCVS, Shirwal	02	09	04	03
PGIVAS, Akola	-	11	12	01
CDT, Warud	04	14	-	-
CDT, Udgir	00	23	01	00
COFS, Nagpur	-	06	03	01
COFS, Udgir	02	02	-	-

6.5. AWARDS/RECOGNITIONS/CERTIFICATES

STUDENTS AWARDS / ACHIEVEMENTS

Sr. No.	Name of the College	Name of Student	Name of Award / Achievement	Date	Place
1.	MVC, Mumbai	Saurabh Karunamay	First Prize in Poster Presentation at IMSACON-IX	06.11.2019 to 08.11.2019	CSK Himachal Pradesh Agriculture University, HP
2.		Sumit S. Gaikwad	Second rank in the All India Students Quiz Competition held at XXXVI Annual Conference of Indian Poultry Science Association (IPSACON 2019)	11.12.2019 to 13.12.2019	Veterinary College, Durg, Chattisgarh
3.		Madhura Vishwasrao, Akshata Gulavady, Rasika Athavale, Jaimini Arora and	Best oral presentation in Small animal Surgery Session of ISVS Conference 2018	14.10.2019	COVAS, Hissar



		others			
4	NVC, Nagpur	Pratik Rathod	IPSA Best MVSc thesis award (Guide - Dr. M. M. Kadam)	11.12.2019	IPSACON Annual Poultry Science Conference, Anjora, Durg (C.G.)
5		Ankita Thakre	Young Scientist Award in XXVIII Annual Conference of Society of Animal Physiologists of India (SAPI)	18.02.2020 to 19.02.2020	ICAR-CSWRI Avikanagar, Rajasthan
6		Sunny Magar	Certificate of Honour for Best Paper Presentation award in Canine Microbiology & Immunology Session 2019 In XVII National Congress on Canine Practice & National Symposium	21.01.2020 to 23.01.2020	College of Vety. Science & AH Jabalpur
7		Nair Sreelakshmi	First Prize for oral Presentation in National Symposium	26.11.2019 to	PGIVAS Akola
8		Dipali Gharat	Second Prize for poster presentation in National Symposium organized by PGIVAS Akola	27.11.2019	PGIVAS Akola
9		Khooshbu Adey	First prize for best paper presentation at National symposium held at PGIVAS, Akola		PGIVAS, Akola
10		Khooshbu Adey	First prize for best poster presentation at National symposium held at PGIVAS, Akola		PGIVAS, Akola
11		Reena Nathani	Second prize for best paper presentation in Small Animal Surger session at National symposium of Indian Society for Veterinary Surgery held at COVAS, Hissar	14.11.2019 to 16.11.2019	COVAS, Hisar (Haryana)
12		Shubham Mandhale	First prize in 'Gram Tech Modal' contest	11.01.2020	Gramayan Pratisthan and IETE for rural based technology innovative products and models at Nagpur
13		Shubham Mandhale	State level Innovation Award	31.01.2020	14th Maharashtra State Level 'Avishkar' Inter University Research



					Convention at University of Mumbai
14	COVAS, Parbhani	Pohandas K. Tidke	NSS Volunteer University Representative for National Republic Day Parade Camp - 2020	26.01.2020	New Delhi
15		Ms. Nidhi A. Khavaneekar	NSS Volunteer University Representative for State Republic Day Parade Camp	26.01.2020	Mumbai
16	COVAS, Udgir	A.A. Agnihotri	II Prize, Best Oral Presentation Award	26.11.19 to 27.11.19	PGIVAS, Akola
17		Wankhede Y.M.	Second Best Poster Presentation Award at 1st Annual Convention of VIPM & National Symposium.	08.11.2019 to 09.11.2019	DUVASU, Mathura
18		Trudy Fernandes	Second Best Oral Presentation Award in 38th Annual Convention of ISVM and National Symposium.	05.02.2020 to 07.02.2020	KVAFSU, Veterinary College, Hebbal, Bengaluru, Karnataka.
19		Mahesh Munde	First Best Oral Presentation Award.	23.02.2020	Mahavet Technical Summit, Panchgani, Satara.
20	KNPCVS, Shirwal	Pranav Vyavahare and Miss. Veena Sutar	Secured second rank in Zonal (West) level SAPI Quiz (Society of Animal Physiologists of India)	30.01.2020	College of Veterinary Science and Animal Husbandry, Junagadh Agricultural University, Junagadh, Gujrat
21		Pranav Vyavahare	Received certificate in Kamalnayan Bajaj Memorial National Elocution Competition	22.01.2020 to 23.01.2020	Shiksha Mandal, Wardha
22		Dr. Gauri Ubhare	Recived third rank for clinical case presentation	30.08.2019 to 31.08.2019.	College of Vet. Science, Chennai, Veterinary & Animal sceinecs University, Tamil Nadu
23		Gauri Ubhare,	Late Dr.Shridhar Koli Memorial Emerging veterinarian award 2020	23.02.2020	Mahavet Technical summit helt at Panchgani Dist-Satara
24		Aboli S. Lakhpati	Young Scientist Award	08.11.2019 to 09.11.2019	National symposium of VIPM held at Mathura (UP)
25			Best Poster Presentation Award		
26		Sayali S. Shinde	Best Poster Presentation Award		



27	PGIVAS, Akola	Abhilash D. Jadhao	First Poster Presentation Award in National Symposium	26.11.19 to 27.11.2019	PGIVAS, Akola
28		Neha Bhawe	Second Best Paper presentation award in National Symposium		
29		Megha Ambalkar	Second Best poster presentation award in National Symposium		
30		Parikshit Katkhede	Second Best Poster Presentation Award at First Veterinary and Animal Science Congress and National Symposium	06.03.2020 to 08.03.2020	College of Veterinary Science and Animal Husbandry, Mhow, Indore, Madhya Pradesh
31	CDT, Warud	Utkarsh Deshmukh	2nd prize in National level Dairy Products Judging contest (Individual)	06.09.2019 to 07.09.2019	SMC college of Dairy Science, AAU, Anand

6.6. EMPLOYABILITY

The undergraduate and postgraduate students are able to grab the jobs in public and private sectors immediately after completion of degree due to following personal and professional attributes;

- ♦ Students technical skill and professional competencies.
- ♦ Consistent growth recorded in the livestock, poultry, fishery and Dairy Technology sector.
- ♦ Industry and field oriented professional degrees for students from all faculties.
- ♦ Increasing demand from the industry for veterinarians, Dairy Technologist and Fishery experts.
- ♦ Regular recruitment's done by State Government, Private Agencies and NGOs.
- ♦ Worldwide scope and recognition for the veterinary, dairy technology and fishery graduates.
- ♦ Opportunities to establish own enterprise/business/clinics etc.
- ♦ Less saturation in the field of Veterinary Science, Dairy Technology and Fishery Sector could be one of the strong reasons.

Placement cells are formed through which students are guided for their placement in private organizations. A Student placement cell is functioning at all colleges that facilitates students in seeking suitable jobs in Govt. and Private sectors.



7

CAPACITY BUILDING OF FACULTY AND STAFF DEVELOPMENT (HUMAN RESOURCE DEVELOPMENT)

Efforts are always on to train the faculties in their area of interest as a part of human resource development. The young faculties are always encouraged to participate in the seminars, conferences training programmes not only in the country but abroad also. The University is regularly deputing the faculties for such events. The funding agencies and especially ICAR provides regular funding for development of human resource in the University. Following is the list of faculty members participated in HRD programmes.

Sr. No.	Name of the college	Number of faculty undergone training and participated in workshop
1	Bombay Veterinary College, Mumbai	79
2	Nagpur Veterinary College, Nagpur	102
3	College of Veterinary And Animal Sciences, Parbhani	58
4	College of Veterinary And Animal Sciences, Udgir	66
5	KNP College Of Veterinary Science, Shirwal	38
6	Post Graduate Institute Of Veterinary & Animal Sciences, Akola	59
7	College of Dairy Technology, Warud	23
8	College of Dairy Technology, Udgir	24
9	College of Fishery Science, Nagpur	07
10	College of Fishery Science, Udgir.	02
11	Wildlife Research & Training Centre, Gorewada, MAFSU, Nagpur	06
	TOTAL	464



8 RESEARCH

8.1. INSTITUTE WISE NUMBER OF ONGOING RESEARCH PROJECTS

Sr. No.	Name of the college	No. of project	Rs. In Lakh
1	Mumbai Veterinary College, Mumbai	14	2622.45
2	Nagpur Veterinary College, Nagpur	20	1979.33
3	College of Veterinary and Animal Sciences, Parbhani	06	580.71
4	Krantisinh Nana Patil College of Veterinary Science, Shirwal, Dist- Satara	12	221.51
5	College of Veterinary and Animal Sciences, Udgir, Dist- Latur	11	98.3
6	Post Graduate Institute of Veterinary & Animal Sciences, Akola	08	497.02
7	College of Fishery Science, Nagpur	05	173.28
8	College of Dairy Technology, Warud (Pusad), Dist- Yavatmal	03	40.71
9	College of Dairy Technology, Udgir, Dist- Latur	01	45.00
	Total	80	6258.31

8.2. DETAILS OF INSTITUTE AND FUNDING AGENCY WISE ONGOING RESEARCH PROJECTS

Sr. No.	Title of the Project	Principal Investigator	Total Cost of the Project (Rs in Lakh)	Funding Agency
Mumbai Veterinary College, Mumbai				
1	All India Coordinated Research Project on Post Harvest Engineering and Technology	Dr. R. J. Zende, Department of Veterinary Public Health	147.86	Indian Council of Agricultural Research, New Delhi
2	Monitoring of Pesticide Residues at National Levels	Dr. R. J. Zende, Department of Veterinary Public Health	42.70	Indian Council of Agricultural Research, New Delhi
3	Outreach Programme on Zoonotic Diseases	Dr. V. M. Vaidya, Department of Veterinary Public Health	7.84	Indian Council of Agricultural Research, New Delhi
4	Centre of Excellence for Advanced Research on Animal Food Safety ICAR NAHEP	Dr. R. J. Zende, Department of Veterinary Public Health	1805.00	World Bank funded NAHEP-CAAST-Indian Council of Agricultural Research, New Delhi



5	Efficacy Evaluation of Gout Management Formula AV/AUP/16 in Ameliorating the Signs of Gout in Poultry	Dr. P.V. Meshram, Department of Veterinary Pathology	1.30	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
6	Monitoring of Drug Residues and Environmental Pollutants	Dr. S.S. Sole, Department of Veterinary Pharmacology & Toxicology	88.00	Indian Council of Agricultural Research, New Delhi
7	Strengthening and Modernization of Teaching Veterinary Clinical Complex, Diagnostic Laboratory and Establishment of Training Centre at Bombay Veterinary College	Dr. R.V. Gaikwad, Department of Veterinary Medicine, Surgery & ARGO	499.79	Rashtriya Krishi Vikas Yojana, Department of Animal Husbandry, Govt. of Maharashtra, Mumbai
8	Strengthening and Development of Higher Agricultural Education Sub- Component: SC - Sub Plan	Dr. G.M. Gadegaonkar, Department of Animal Nutrition	9.95	Indian Council of Agricultural Research, New Delhi
9	Evaluation of Dog Collar Belt for its Efficacy	Dr. H.Y. Palampalle, Department of Veterinary Parasitology	3.52	Institute of Chemical Technology, Mumbai
10	Evaluation of Efficacy of Natural Remedies Product NR/JC/01 in Dogs with Osteoarthritis	Dr. S. D. Tripathi, Department of Veterinary Surgery & Radiology	3.36	Natural Remedies, Bengaluru
11	Evaluation of Natural Remedies product NR/TP/01 Spray for the Management of Wounds in Dogs	Dr. G. S. Khandekar, Department of Veterinary Surgery & Radiology	3.52	Natural Remedies, Bengaluru
12	Studies on Efficacy of Appetizer, Anti-Inflammatory, Hematinic and Acaricidal Herbal Preparations in Clinical Surgical Cases of Dogs	Dr. G. U. Yadav, Department of Veterinary Surgery & Radiology	3.86	Indian Herbs Specialities Pvt. Ltd., Saharanpur, Uttar Pradesh
13	Designing Novel Nanobiotechnological Systems for Effective Delivery of Select Indigenous Herbs with Potent Antitubercular Activity	Dr. R. R. Pharande, Department of Microbiology	3.75	Department of Biotechnology, New Delhi
14	Veterinary Application of Radio Immune Assay (RIA) with Special Reference to thyroid dysfunction for constituent college of MAFSU	Dr. C. N. Galdhar, Department of Veterinary Medicine	2.00	MAFSU Research grant
		Total	2622.45	
Nagpur Veterinary College, Nagpur				
1	Effect of Candidate Genes on Milk Production Traits in Gaolao Cattle	Dr. D.S. Kale, Department of Animal	46.02	Department of Science and Technology-SERB,



		Genetics Breeding		New Delhi
2	Scale-Up and Techno Economic Feasibility Studies on Complete Feed for Animals Using Ozonated Cotton Stalk as Roughage	Dr. A.P. Dhok, Department of Animal Nutrition	158.90	Rajiv Gandhi Science & Technology Commission, Mumbai
3	DBT Star College Project	Dr. M. R. Jawale, Department of Animal Nutrition	70.00	Department of Biotechnology, New Delhi
4	Strengthening and Modernization of Teaching Veterinary Clinical Complex, Diagnostic Laboratory & Establishment of Training Centre at Veterinary & Animal Science under MAFSU Nagpur	Dr. S. V. Upadhye, Teaching Veterinary Clinical Complex	691.32	Rashtriya Krishi Vikas Yojana, Department of Animal Husbandry, Govt. of Maharashtra, Mumbai
5	Establishment of Community Based Animal Husbandry Practices in the Tribal Villages of Gadchiroli District of Maharashtra State	Dr. M.S. Patil, Department of Animal Reproduction, Gynaecology & Obstetrics	26.30	Indian Council of Agricultural Research, New Delhi-Tribal Sub Plan
6	Strengthening of ETT/IVF centre of Maharashtra Animal & Fishery Science University, Nagpur	Dr. S.K. Sahatpure, Department of Animal Reproduction, Gynaecology & Obstetrics	297.14	Rashtriya Gokul Mission, Department of Animal Husbandry and Dairying, Govt. of India
7	Exploiting encapsulated nanoparticle conjugated phytochemicals to combat antimicrobial resistance in poultry	Dr. N.V. Kurkure, Department of Veterinary Pathology	40.04	Indian Council of Agricultural Research, New Delhi-NASF
8	Capacity Building Project for ALDO and LSS under Vidarbha Marathwada Dairy Development Project (VMDDP)	Dr. S.P. Landge, Department of Veterinary & AH Extension Education	20.42	Vasantrao Naik State Agriculture Extension Management Training Institute, Nagpur
9	Development of Lateral Flow/ELISA Detection Kit for the Early Diagnosis of the Theileriosis in Cattle	Dr. S.W. Kolte, Department of Veterinary Parasitology	47.70	Biotechnology Industry Research Assistance Council (BIRAC), New Delhi
10	Clinical Evaluation of indigenous medication against mastitis and tick infestation among farm animals	Dr. G.R. Bhojne, Department of Clinical Medicine	8.47	National Innovation Foundation, Ahmadabad, India
11	Evaluation of Bloat Formulations	Dr. G.R. Bhojne, Department of Clinical Medicine	2.64	National Innovation Foundation, Ahmadabad, India
12	Clinical Evaluation of Indigenous Herbal Medicine	Dr. G.R. Bhojne Department of Clinical Medicine	8.00	National Innovation Foundation, Ahmadabad, India
13	DBT Star Scheme College	Dr. S. W. Bonde Department of	4.50	Department of Biotechnology, New



		Veterinary Biochemistry		Delhi
14	Clinical Evaluation of indigenous herbal medications against lactational anestrus among bovine	Dr. M.S. Patil, Department of Animal Reproduction, Gynaecology & Obstetrics	1.48	National Innovation Foundation, Ahmadabad, India
15	An Open Label Multicentric Clinical Trial to Study Safety and Immunogenicity of Tetanus Toxoid Vaccine in Animals	Dr. S.R. Warke, Department of Veterinary Microbiology	2.29	Indian Immunologicals, Hyderabad, India
16	Evaluation of Efficacy of Selisseo on Growth Performance and Immune Functions of Commercial Broilers	Dr. N.V. Kurkure, Department of Veterinary Pathology	10.81	Adisseo France SAS
17	Outreach Programme on Zoonotic Diseases	Dr. S. P. Chaudhary, Department of Veterinary Public Health	6.34	Indian Council of Agricultural Research, New Delhi
18	Centre for Zoonoses	Dr. S. P. Chaudhary, Department of Veterinary Public Health	437.84	Indian Council of Agricultural Research, New Delhi
19	Understanding molecular basis of Peste-des-petits ruminants virus (PPRV) mediated host immune modulation for the development next generation vaccine	Dr. Prabhakar Tembhurne, Department of Veterinary Microbiology	50.00	Indian Council of Agricultural Research, New Delhi
20	Molecular surveillance and cross species transmission of Rota viruses of animal and human origin from Maharashtra	Dr. Prabhakar Tembhurne, Department of Veterinary	49.12	Indian Council of Medical Research, New Delhi
		Total	1979.33	
College of Veterinary & Animal Science, Parbhani				
1	Dissemination of Poultry and Goat Meat Processing Technology and Establishment of Meat Processing Demonstration Unit for Livelihood Upliftment of Farmers and Butcher Communities of Marathwada Region, Maharashtra	Dr. R. N. Waghmare, Department of Veterinary Public Health	70.99	Department of Science and Technology - SSTP New Delhi
2	Strengthening and modernization of Teaching Veterinary Clinical Complex, diagnostic laboratory and establishment of training centre at COVAS, Parbhani	Dr. M.N. Markandeya, Department of Animal Reproduction, Gynaecology & Obstetrics	459.45	Rashtriya Krishi Vikas Yojana, Department of Animal Husbandry, Govt. of Maharashtra, Mumbai
3	Effect of Promoter Mutation of Candidate Gene on Growth Kinetics and Pathogenicity of Salmonella Typhimurium	Dr. P. B. Ghorpade, Department of Veterinary Biochemistry	27.84	Department of Science and Technology -SERB , New Delhi
4	Strengthening of Life Science and Biotechnology Education and Training at	Dr. P.V. Nandedkar, Department of Animal	20.00	Department of Biotechnology, New



	Undergraduate Level Under Star College Scheme	Genetics Breeding		Delhi
5	Efficacy of Some Herbal Liver Tonics as an Adjunct Therapy in the Treatment of Theileriosis in Cattle	Dr. M. F. M. F. Siddiqui, Department of Veterinary Medicine	1.10	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
6	Efficacy Evaluation of A Polyherbal Spray in management of Subclinical Mastitis in Buffaloes	Dr. M.P. Sakhare, Department of Veterinary Medicine	1.33	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
		Total	580.71	
KNP College of Veterinary Science, Shirwal				
1	ICAR- All India Coordinated Research Project on Pig	Dr. M.B. Amle, Department of Animal Reproduction, Gynaecology & Obstetrics	52.85	Indian Council of Agricultural Research, New Delhi
2	Prevention and Therapeutic Management for Diseases Causing Reproductive Failures in Animals	Dr. Mrs. Kavita Khillare, Department of Animal Reproduction, Gynaecology & Obstetrics	132.00	Rashtriya Krishi Vikas Yojana, Department of Animal Husbandry, Govt. of Maharashtra, Mumbai
3	In- vivo Efficacy of Serimat in Mastectomy Simulated Surgery in Pigs	Dr. C.S. Mote, Department of Veterinary Pathology	7.98	Intox Pvt. Ltd. Pune
4	Comparative Study on Effect of 5-ALA Premix (5-Amino Levulinic Acid) Vit E Organic Selenium, Organic Zinc and Vit E With Inorganic Selenium as Feed Supplement Through Water/ Feed on Egg Production, their Quality and Immune Status of Layers	Dr. A.S. Kadam, Department of Poultry Science	9.85	Uttara Impex Pvt. Ltd. Pune
5	Evaluation of Feedstuffs Dry Matter Degradability by Using Rumen Fistulated Animals	Dr. S.M. Bhalerao, Department of Animal Nutrition	4.42	M/S Hindustan Feeds, Baramati
6	Generation of Polyclonal Sera against Rabies Glycoprotein in Sheep	Dr. C.S. Mote, Department of Veterinary Pathology	2.26	Serum Institute of India, Pune
7	Determination of the Minimum Inhibitory Concentration of Various Compounds Against Poultry Mycoplasma and E. coli species	Dr. A.K. Barate, Department of Veterinary Biochemistry	3.64	Alembic Pharmaceuticals Ltd. Vadodara, Gujrat
8	Antidiabetic Activity of Feijoa Fruit Extract in Mice	Dr. V.S. Karande, Department of Veterinary Pharmacology	1.22	Viridis Biopharama, Navi Mumbai



		& Toxicology		
9	Evaluation of the Acute Toxicity of MIX-02 TOX, SUPERLIV DS, AV/AGP/30, AV/IAM/16, AV/ERT/19, AV/EGM/19, MIX-01 VIL, LIQ-BIOTIC, BOVITUSS LIQ, PULMOFARM D-LIQ	Dr. V.S. Karande, Department of Veterinary Pharmacology & Toxicology	1.51	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
10	Detection of Milk Residues of Dicrysticin-S Injection (Streptopenicillins) after Parenteral Administration in Buffaloes and MIC Against Common Pathogens in Ruminants	Dr. V.S. Karande, Department of Veterinary Pharmacology & Toxicology	1.82	Zydu Animal Health, Ahmedabad, Gujarat
11	Creation of Database of Histological and Histopathological Observations of Important Wild Life and Zoo Animals	Dr. C.S. Mote, Department of Veterinary Pathology	1.96	MAFSU Research Grant
12	Unravelling The Role Of Food Animals In Spreading Antimicrobial Resistant E. coli and Non Typhoidal Salmonella (NTS) Species	Dr. R.P. Kolhe, Department of Veterinary Public Health	2.00	MAFSU Research Grant
		Total	221.51	
College of Veterinary & Animal Science, Udgir				
1	Molecular Surveillance and Cross Species Transmission of Rotaviruses of Animal & Human Origin from Maharashtra	Dr. S.P. Awandkar, Department of Veterinary Microbiology	52.00	Indian Council of Medical Research, New Delhi
2	Characterization and Evaluation of Non-Descript Goat population of Marathwada and Western Maharashtra	Dr. V.B. Dongre, Instructional Livestock Farm Complex	25.70	Department of Science and Technology, New Delhi
3	Evaluation of Herbal Medications against Bovine Ephemeral Fever	Dr. A.U. Bhikane, Department of Veterinary Clinical Medicine	8.80	National Innovation Foundation, Ahmedabad
4	Evaluation of Emulsifier on Tallow in Broiler Diets	Dr. R.C. Kulkarni, Department of Poultry Science	1.61	Orffa Animal Nutrition Pvt. Ltd. Thane
5	Efficacy Evaluation of a Herbo-Mineral Formulation In Management of Subclinical Mastitis	Dr. R.K. Jadhav, Department of Veterinary Clinical Medicine	1.05	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
6	Efficacy Evaluation of Topical Herbal Gel in Treatment of Subclinical and Clinical Mastitis in Bovines	Dr. R.K. Jadhav, Department of Veterinary Clinical Medicine	1.54	Rakesh Pharma, Ahmedabad
7	Use of Herbal Luteotropic and Haematinic Bolus for Fertility	Dr. A. D. Patil, Department of Animal	1.05	Rakesh Pharmaceutical, Kalol, Gujarat



	Improvement in Dairy Cows	Reproduction, Gynaecology & Obstetrics		
8	Efficacy of Herbo-Mineral Formulation in Anoestrus Dairy Animals	Dr. A. D. Patil, Department of Animal Reproduction, Gynaecology & Obstetrics	1.26	Rakesh Pharmaceutical, Kalol, Gujarat
9	Evaluation of Efficacy of a Herbal Growth Promoter in Osmanabadi Goat Kids	Dr. A. D. Patil, Department of Animal Reproduction, Gynaecology & Obstetrics	1.40	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
10	Efficacy of a Combination Therapy with Three Polyherbal Formulations in Prevention of Periparturient and Post-Parturient Complications of Dairy Cows	Dr. A. D. Patil, Department of Animal Reproduction, Gynaecology & Obstetrics	1.89	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
11	Polymorphism study on tyrosinase gene responsible for partial albinism in Deoni Cattle	Dr. V.B. Dongre, Instructional Livestock Farm Complex	2.00	MAFSU Research grant
		Total	98.30	
Post Graduate College of Veterinary & Animal Sciences, Akola				
1	Strengthening of Teaching Veterinary Clinical Complex and Diagnostic Laboratory at Post Graduate Institute of Veterinary and Animal Sciences, Akola	Dr. S.P. Waghmare, Teaching Veterinary Clinical Complex	450.00	Rashtriya Krishi Vikas Yojana, Department of Animal Husbandry, Govt. of Maharashtra, Mumbai
2	Characterization and Evaluation of Non-Descript Buffalo Population of India	Dr. S.V. Kuralkar, Department of Animal Genetics Breeding	32.60	Indian Council of Agricultural Research –NBAGR
3	Studies on the Efficacy of Some Herbal Products for the Control of Mycoplasmosis in Commercial Broilers	Dr. P. R. Rathod, Department of Veterinary Pathology	1.87	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
4	Surgical Neutering & Anti Rabies Vaccination of Neutered Stray Dogs under ABC Programme	Dr. M. G. Thorat, Department of Veterinary Surgery & Radiology	5.67	Akola Municipal Corporation Akola
5	Efficacy of Some Herbal Formulations for Partial Replacement of Synthetic Methionine in Broiler Feeds	Dr. S.J. Manwar, Department of Poultry Science	1.88	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
6	Fertility Assessment of Sexed Semen in Buffaloes	Dr. M.V. Ingawale, Department of Animal	1.00	Agricultural Training and Management



		Reproduction, Gynaecology & Obstetrics		Agency, Akola
7	Establishment of Transvaginal Oocyte Retrieval (TVOR) and in vitro Embryo Production (IVEP) in Indigenous cattle	Dr. C.H. Pawshe Department of Animal Reproduction, Gynaecology & Obstetrics	2.00	MAFSU Research Grant
8	Screening of crossbred breeding bulls of Maharashtra for abating A 1 allele of B-casein protein	Dr. S. Sajid Ali, Department of Animal Genetics Breeding	2.00	MAFSU Research Grant
		Total	497.02	
College of Fishery Science, Nagpur				
1	Dissemination of Fisheries Technology for Poverty Alleviation of Tribal/Rural Communities of Gadchiroli District	Mr. S. A. Joshi, Department of Fish Processing Technology	63.99	Department of Science and Technology, New Delhi
2	Development of Organized Fish Seed Production, Culture and Marketing to Ensure Sustainable Livelihood Development in Aquaculture in Gadchiroli District	Dr. P. A. Telvekar, Department of Fisheries Extension, Economics and Statistics	58.01	Department of Science and Technology, New Delhi
3	Studies on the Quality of Fish Finger prepared from Tilapia (Oreochromis niloticus) and Pangasius (Pangasius pangasius) during Deep Freeze Storage	Mr. S.S. Relekar, Department of Fish Processing Technology	1.30	MAFSU Research Grant
4	Sustainable Livelihood of Tribal Population of Gadchiroli District in Maharashtra State through Intervention of Scientific Fisheries Technology	Dr. P. A. Telvekar, Department of Fisheries Extension, Economics and Statistics	36.80	Rajiv Gandhi Science and Technology Commission, Maharashtra
5	Feasibility study of farm pond based Aquaponics Techniques in Maharashtra State	Shri. Sachin W. Belsare, Department of Fisheries Hydrography	13.18	Rajiv Gandhi Science and Technology Commission, Maharashtra
		Total	173.28	
College of Dairy Technology, Warud				
1	Preparation of Functional Fermented Milk Enriched with Bioactive Peptides Obtained From the Milk of Indigenous Cow Breeds of Vidharba and Marathwada Region of Maharashtra	Dr. P.S. Patil, Department of Dairy Microbiology	36.71	Rajiv Gandhi Science & Technology Commission, Mumbai
2	Evaluation of physicochemical and functional properties of sodium caseinate-polysaccharide complexes	Dr. Chitra Gupta, Department of Dairy Chemistry	2.00	MAFSU Research grant
3	Evaluation of oxidative stability and colour	Dr. Sneha J. Shende,	2.00	MAFSU Research grant



	of astaxanthin incorporated into flavored milk and Burfi during storage	Dairy Chemistry Department		
		Total	40.71	
College of Dairy Technology, Udgir				
1	Fortification of Selected Indigenous Dairy Products with Omega 3 Fatty Acids Using Microcapsules of Flaxseed Oil Powder: a Novel Approach for Promoting Health and Wellbeing of Consumer	Er. S.S. Chopde, Department of Dairy Engineering	45.00	Rajiv Gandhi Science & Technology Commission, Mumbai
		Total	45.00	
		Grand Total (80)	6258.31	

8.3. INSTITUTE WISE NUMBER OF COMPLETED RESEARCH PROJECTS

Sr. No.	Name of the college	No. of project	Rs. In Lakh
1	Mumbai Veterinary College, Mumbai	05	269.25
2	Nagpur Veterinary College, Nagpur	05	229.16
3	College of Veterinary and Animal Sciences, Parbhani	06	10.28
4	College of Veterinary and Animal Sciences, Udgir	02	2.39
5	Post Graduate Institute of Veterinary & Animal Sciences, Akola	01	1.08
6	College of Fishery Science, Nagpur	01	23.00
	Total	20	535.16

8.4. DETAILS OF INSTITUTE AND FUNDING AGENCY WISE COMPLETED RESEARCH PROJECTS

Sr. No.	Name of the college	Principal Investigator	Rs. In Lakh	Funding Agency
Mumbai Veterinary College, Mumbai				
1	Development of Low-Cost Processing Technology for the Preparation of Chicken Liver Powder and Chicken Liver Chews (Part of AICRP on PHET)	Dr. R.J. Zende, Department of Veterinary Public Health	147.86	Indian Council of Agricultural Research, New Delhi
2	Clinical Evaluation of Porcine Skin Graft for Treatment of Open Wound in Dog (Part of AICRP on PHET)	Dr. R.J. Zende, Department of Veterinary Public Health		Indian Council of Agricultural Research, New Delhi
3	Acute Toxicity Study of DL Methionine in Wistar Rats	Dr. S.S. Sole, Department of Veterinary Pharmacology	2.76	UPL Limited, Mumbai



		& Toxicology		
4	Evaluation of MHA 88% in Broiler and Layer Diets	Dr. D. N. Desai, Department of Poultry Science	5.12	UPL Limited, Mumbai
5	Upliftment and Provision of Livelihood for Schedule tribe Population of Maharashtra State through Scientific Nutritional Package of Practices	Dr. S.D. Jagdale, Instructional Livestock Farm Complex	113.51	Indian Council of Agricultural Research, New Delhi
		Total	269.25	
Nagpur Veterinary College, Nagpur				
1	Expression, Localization and Modulatory Effect of Adipokines in the Ovary of Cyclic Buffaloes	Dr. M. B. Gupta, Department of Veterinary Physiology	41.01	Department of Science and Technology-SERB, New Delhi
2	Efficacy and Safety of Wormivet an Anthelmintic Powder in Large and Small Ruminants	Dr. A.P. Somkuwar, Department of Veterinary Pharmacology & Toxicology	1.55	Rakesh Pharmaceuticals, Ahmedabad, Gujarat
3	Outreach/Network Programme on "Estimation of Methane Emission under Different Feeding Systems and Development of Mitigation Strategies"	Dr. A. P. Dhok, Dept. of Animal Nutrition	71.80	Indian Council of Agricultural Research, New Delhi
4	Balancing the Ration of Lactating Buffaloes to Increase the Productivity and Reduced Methane Emission and Providing Livelihood Security Through Livestock Keeping in Tribal Area of Melghat (Dist. - Amaravati)	Dr. A. P. Dhok, Dept. of Animal Nutrition	4.30	Indian Council of Agricultural Research, New Delhi
5	Molecular Epidemiology of Ticks & Tick-Borne Disease, Host Resistance and Development of Novel Pathogen Vaccines	Dr. S. W. Kolte, Dept. of Parasitology	110.50	Department of Biotechnology, New Delhi
		Total	229.16	
College of Veterinary & Animal Science, Parbhani				
1	Comparative study on Effect of 5-ALA Premix (5-Amino Levulinic Acid) with or without in Combination of Vit E with Organic Selenium, Zinc and Vit E with inorganic Selenium Zinc Product as Feed Supplement through Water/Feed on Performance, Haematological, Biochemical and Immune Status of Broilers	Dr. M.V. Dhumal, Department of Poultry Science	3.05	Uttara Impex Private Limited, Hyderabad
2	Evaluation of Effect of Magacal on Egg and Laying Characteristics of Late Layers	Dr. M.G. Nikam, Department of Poultry	1.35	Indian Herbs Specialties Limited, Chandigarh



		Science		
3	Efficacy Evaluation of Ginoguard (GP1) and (GP2) as Alternative to Antibiotic Feed Additive on Growth Performance of Broilers	Dr. V. V. Deshmukh, Department of Veterinary Public Health Dr. M.N. Markandeya,	0.70	Godrej Industries Ltd. (Chemical), Mumbai
4	Technical Survey of Goshala from state	Department of Animal Reproduction, Gynaecology & Obstetrics	2.50	COVAS Parbhani
5	Study on Comparative Efficacy of Certain Mycotoxin Binders in Experimentally Induced Mycotoxicosis in Broilers	Dr. G.R. Gangane, Department of Veterinary Pathology	1.60	Ayurvet Limited, Baddi, Solan, Himachal Pradesh
6	Efficacy Evaluation of Ginoguard-GP2, GP5, GP6 and Ginoguard-GP2 as Alternative to Antibiotic Feed Additive on Growth Performance of Broilers	Dr. P.V. Yeotikar, Department of Veterinary Biochemistry	1.08	Godrej Industries Ltd. (Chemical), Mumbai
		Total	10.28	
College of Veterinary & Animal Science, Udgir				
1	Evaluation of Three Emulsifiers for Different Sources of Oil in Broilers Diets	Dr. R.C. Kulkarni, Department of Poultry Science	1.34	Orffa Animal Nutrition Pvt. Ltd. Thane, Thane
2	Efficacy of Oral Inorganic Phosphorus Preparation in Management of Osteomalacia in Buffaloes and Pica in Bovines	Dr. A.U. Bhikane, Department of Veterinary Clinical Medicine	1.05	Rakesh Pharmaceuticals, Ahmedabad, Gujarat
		Total	2.39	
Post Graduate College of Veterinary & Animal Sciences, Akola				
1	Evaluation of Acute Toxicity Study of 8 Siddhayu Research Products	Dr. S.W. Hajare, Department of Pharmacology and toxicology	1.08	Siddhayu Pvt. Ltd. Nagpur
		Total	1.08	
College of Fishery Science, Nagpur				
1	Preparation of Action Plan for Development of Fisheries & Aquaculture in Nagpur Region.	Shri. S. W. Belsare, Dept. of Fisheries Hydrography,	23.00	VSDB
		Total	23.00	
		Grand Total (20)	535.16	

**8.5. DETAILS OF EXTRAMURAL RESEARCH PROJECTS WITH SALIENT ACHIEVEMENTS**

Name of Project	:	All India Coordinated Research Project on Post Harvest Technology
PI and Co-PI	:	Dr. R. J. Zende Dr. V.M. Vaidya, Mentor- Dr. A.M. Paturkar
Funding Agency	:	ICAR
Summary	:	<p>Sub-Project 1: Development and Establishment of model retail outlet for hygienic Sheep/ Goat meat production.</p> <ul style="list-style-type: none">♦ A structured questionnaire was prepared to collect ground information of sheep/goat meat retail outlets to conduct a survey in and around Mumbai city.♦ The sheep and goat retail shops situated in the Mumbai city were physically inspected for the availability of infrastructure & other facility and reported as per format developed. Similarly, on the same day of the visit sheep/goat meat was collected for determination of its microbiological quality.♦ As per the surveillance studies, conceptual designs (2D, 3D and Prototype) of retail model outlet was prepared.♦ Conceptual design of movable retail outlet for hygienic Sheep/Goat meat production also developed.♦ Applied to Mumbai RTO office for approval of its establishment. <p>Sub-Project 2: Development of low-cost processing technology for the preparation of chicken liver powder and chicken liver chews.</p> <ul style="list-style-type: none">♦ The trials were conducted with various size of chicken liver and its different time temperature combinations.♦ Amongst all the conducted trials, the best process was finalized where chicken liver was cut into medium size pieces and then dried in hot air oven at 80°C for 18 hours.♦ Further studies on proximate and microbiological analysis of chicken liver powder were carried out.♦ Standardized the low-cost process protocols for the preparation of chicken liver powder and chicken liver extruded product or chews.♦ The total cost to prepare chicken liver powder is approximately Rs. 1200/kg whereas chicken liver extruded product per kg is approximately Rs. 275 / kg. <p>Sub-Project 3: Clinical evaluation of porcine skin graft for treatment of open wound in dog.</p> <ul style="list-style-type: none">♦ The clinical evaluation of preserved sterile porcine skin graft on open wounds in dogs was studied. Estimation of the efficacy of biological bandages was compared with the regular bandage.♦ In the study, the porcine skin graft (biological bandages) found to be suitable for the faster wound healing as compared to the regular bandage in treatment of open wound in dogs and it does not cause any adverse reaction, if applied on skin.



Name of Project	:	Monitoring of Pesticide Residues at National Level (MPRNL)
PI and Co-PI	:	Dr. R. J. Zende Dr. V.M. Vaidya, Mentor- Dr. A.M. Paturkar
Funding Agency	:	ICAR
Summary	:	<ul style="list-style-type: none">♦ Laboratory has successfully completed NABL assessment during 6th and 7th July 2019 as per ISO 17025: 2017 and accreditation is valid till 23rd July 2021.♦ About 576 samples (egg -228, meat-228 & fish -120) were analyzed during year 2019-2020 for total 12 pesticide out of which 11 are "Organochlorine" (alpha-HCH, beta-HCH, Delta-HCH, Gamma-HCH, ALdrin, Endosifan Sulphate, alpha-Endosulfan, beta-Endosulfan, o,p-DDD, o,p-DDE, o,p-DDT) and 1 "Organophosphate" (Chlorpyrifos).♦ All the meat, eggs and fish samples analyzed does not showed the presence of any of the pesticides above 50 µg/Kg (below the level of Quantification)♦ Laboratory has conducted Inter Laboratory Comparison Program in Egg matrix for 12 pesticide with 8 different laboratories during February 2019. "Z score" of all the labs were satisfactory except one lab.♦ New QuEChERs method are in progress for rapid identification of pesticides in animal tissues.♦ Monthly sampling with Geo-tagging, analysis and online submission of report to the ICAR, New Delhi is done well before time.♦ The National Coordinator has given an "Excellent" remark for the performance of project and laboratory.

Name of Project	:	Outreach Programme On Zoonotic Diseases
PI and Co-PI	:	Dr. V.M. Vaidya, Dr. R. J. Zende, Mentor- Dr. A.M. Paturkar
Funding Agency	:	ICAR
Summary	:	<ul style="list-style-type: none">♦ The occurrence of Hydatidosis in Maharashtra is 1.53% in buffalo, 0.29% in pigs and 0% in sheep and goat. Prevalence of Cysticercosis in Maharashtra is 0.43% in pigs and 0% in cattle and sheep/goat.♦ Out of 186 serum samples collected from pigs, 9 serum samples were found positive for hydatidosis by commercial ELISA, which showed 4.83% seroprevalence in buffaloes.♦ Sero-prevalence of hydatidosis by FTA using purified antigens was found to be 5.35% in buffaloes.♦ Overall sensitivity and specificity of FTA by purified antigen was found to be 98.44% and 99.85%, respectively for diagnosis of hydatidosis in buffaloes.♦ Sero-prevalence of cysticercosis in pigs was found to be 4.44% using FTA.♦ Out of 362 samples, none of the sample was positive for Trichinellosis in pigs by acid-pepsin digestion assay. Two each of human cases were positive for Hydatidosis and Cysticercosis.



Name of Project	:	Expression, Localization and Modulatory Effect of Adipokines in the Ovary of Cyclic Buffaloes
PI and Co-PI	:	Dr. Mahesh Gupta; Dr. J. P. Korde and Dr. N. V. Kurkure
Funding Agency	:	DST - Science and Engineering Research Board, New Delhi
Summary	:	<ul style="list-style-type: none">♦ The study concluded that the adiponines viz. Adiponectin, Apelin, Resistin and Visfatin are present in buffalo ovaries.♦ The mRNA and Protein expression of Adiponectin, Apelin and their receptor (AdipoR1, AdipoR2, APLNR) and other proteins i.e. resistin and Visfatin varies during different stages of corpus luteum and follicle development in buffalo.♦ The adipokines proteins are localized in cytoplasm of luteal, granulosa and theca interna cells of ovaries and the intensity of staining varies from protein to protein.♦ The adipokines v.i.z. adiponectin, apelin, resistin and visfatin regulate steroid synthesis and secretion in cultured buffalo luteal and granulosa cells.♦ Finally the findings indicate adipokines affects luteal and follicular dynamics and reproductive functions in water buffalo.

Name of Project	:	Understanding the Molecular Basis of peste-des-petits Ruminants Virus (PPRV) Mediated Host Immune Modulation of the Development of Next Generation Vaccines
PI and Co-PI	:	Dr. P.A. Tembhurne
Funding Agency	:	ICAR-NASF
Summary	:	The PPRV infected PBMC samples were performed for high throughput transcriptomic and small RNA sequencing. The validation of miRNA, mRNA targets and circulatory miRNA was carried out. The results showed novel miRNA pertaining to PPRV infection. Genes associated with innate and immune response expression were profiled and identified the cross talk between genes and miRNA. The disease progression miRNAs was identified and circulatory serum miRNA-miR-369, miR-486 as PBMC miR-193; miR-34 and miR-211 were indicating biomarker potential for PPRV infections.



8.6. STUDENTS RESEARCH

Sr.No.	Title
Department of Veterinary Anatomy, Histology and Embryology	
1	Comparative studies of intestinal mucosal structure and barrier mucous content in goat, dog and pig
2	Gross anatomical and histomorphological studies on laparoscopically excised uterus of cat (<i>Felis catus</i>)
3	Histomorphological studies of intestine in relation with lymphoid tissue in Japanese quail (<i>Coturnix coturnix japonica</i>)
4	Histological, histochemical and ultrastructural observations on oviduct of laying & non-laying Japanese Quail (<i>Coturnix coturnix japonica</i>)
5	Histomorphological characterization of skin in indigenous non descript breed of pig (<i>Sus scrofa domestica</i>)
6	Age related histomorphological, histochemical, ultrastructural and immunohistological status of lymphoid organs in Japanese quail (<i>Coturnix coturnix japonica</i>)
Department of Veterinary Biochemistry	
7	Study on DNA characterization of glutathione per-oxidase in Sahiwal breed
8	Studies on evaluation of A2 milk concept in Red Kandhari and crossbred cows of Marathwada region
9	Studies on serum energy metabolites and enzyme activities in pre-partum and post-partum period of Marathwadi buffaloes
Department of Veterinary Physiology	
10	CEA, CA 15-3 and miRNA expression as biomarkers in canine mammary tumours
11	Effect of THI and BCS on hormone profile, blood metabolites and milk composition in lactating buffaloes
12	Evaluation of seminal antioxidative potential and sperm morphological characteristics in cattle bull and buffalo bull during winter and summer seasons
13	Evaluation of orexin system in buffalo ovary and its <i>in-vitro</i> effect on steroidogenesis
14	Effect of housing system and THI on milk and physio-hematological parameters in early lactating Red Kandhari cows
Department of Livestock Production and Management	
15	Comparative study of partial and complete replacement of field grown maize with hydroponic maize on performance of Osmanabadi does
16	Effect of panchagavya and probiotic with azolla meal based feed on growth performance in Osmanabadi kids
17	Water requirement of Deccani lambs and Osmanabadi kids under barn and loose housing system during summer season
18	To study age wise growth performance in Madgyal sheep under intensive and semi intensive rearing systems
19	Effect of feeding Azolla (<i>Azolla pinnata</i>) on the growth performance in Osmanabadi kids
20	Growth performance of Deoni calves under barn and loose housing system
21	Assessment of water footprint in Osmanabadi kids
22	Managerial practices and morphometric characterization of local donkeys in Marathwada region
23	Effect of group size on growth performance and behaviour of Purnathadi buffalo calves
Department of Animal Nutrition	
24	Effect of supplementation of probiotics and rumen buffer on performance of lactating buffaloes



25	Effect of Zinc and vitamin E supplementation on production performance of lactating buffaloes
26	Effect of dietary inclusion of roasted Guar korma and Sunflower meal with or without enzyme supplementation on meat quality parameters in broiler birds
27	Effect of inclusion of ghee residues in the goat ration substantiated by in vivo studies
28	Studies on utilization of ozone treated cotton stalk in pelleted complete feed of growing goats
29	Utilization of cotton stalk in complete pelleted feed of growing goats
30	Effect of supplementation of butyrate on performance of broiler chicken
31	Effect of glycerol as an energy source with or without probiotics on performance of broiler chicken
32	Partial replacement of concentrate mixture by Shevari (<i>Sesbania sesban</i>) in growing Osmanabadi goats
33	Comparative Study of feeding Jowar kadabi and groundnut haulms on performance of growing goats
34	Effect of replacement of cottonseed cake in concentrate mixture by wet distillers grain with solubles (WDGS) on the performance of growing goats
35	Effect of dietary supplementation of α -calcidol on the performance of broiler chicken
36	Effect of dietary supplementation of short chain and medium chain fatty acid on performance of broiler chicken
37	Studies on utilization of roasted Guar (<i>Cyamopsis tetragonoloba</i> L.) korma in broiler chicken
38	Performance of Japanese quail (<i>Coturnix coturnix japonica</i>) supplemented with different levels of organic acids (Acetic, Butyric and Propionic acids)
39	Effect of supplementation of yeast (<i>Saccharomyces cerevisiae</i>) with phytobiotic (Thyme oil) on performance of Japanese quail (<i>Coturnix coturnix japonica</i>)
40	Effect of supplementation of inorganic, organic and nano form of zinc on growth performance of growing Osmanabadi goats
41	Effect of dietary supplementation of probiotic and prebiotic on the performance of Labrador puppies
Department of Poultry Science	
42	Comparative study on various forms of trace minerals in diets on performance of broilers
43	To study the effect of shellfish processing industry waste slurry on performance of broilers
44	The effect of multiple phase feeding on the performance of broilers
45	Evaluation of the blend coated organic acids and medium-chain fatty acids as an alternative to antibiotic growth promoter on the performance of broilers
46	Effect of incorporation of essential oils alone or in combinations in diets on performance of broiler chickens
47	Studies on supplementation of organic acids and essential oils on broiler performance
48	Effect of feeding mushroom waste on broiler performance
49	Use of medium chain fatty acids as replacement to antibiotics in broilers diet
50	Effect of oregano essential oil with multi-enzyme in protein reduced diet on broiler performance
Department of Livestock Products Technology	
51	Extending the shelf life of paneer coated in edible film treated with essential oils
52	Process optimization of fruit yogurt enriched with dietary fibre
53	Development and quality characteristics of chicken sticks incorporated with custard apple (<i>Annona squamosa</i> L.) pulp extract
54	Process standardization and quality assessment of spent hen meat cookies



Department of Animal Genetics Breeding	
55	Genotyping of cross bred cattle for SNP G22231T and SNP T250258 of <i>BRCA1</i> gene and its association with somatic cell count
56	Myostatin (MSTN) gene polymorphism in Konkan Kanyal goat breed
57	Verification of cattle pedigrees through microsatellite markers
58	Screening for SNPs within DGAT1 gene of Gaolao cattle
59	Study of DNA sequence variation within STAT1 gene of Gaolao cattle
60	Genotyping of Deccani sheep for MHC DRB1 gene and its association with parasitic resistance
61	Genotyping for Melanocortin 1 Receptor (<i>MC1R</i>) gene of Nagpuri and Purnathadi buffaloes
62	Study of polymorphism in candidate milk protein genes and their association with milk traits in Gaolao breed of cattle
63	Genetic diversity analysis in Purnathadi buffalo and its comparison with Marathwadi and Nagpuri buffaloes
Department of Veterinary & Animal Husbandry Extension Education	
64	Impact of extension literature about good dairy farming practices in knowledge gain among dairy farmers in Konkan region of Maharashtra
65	Assessment of animal welfare knowledge among dairy farmers in Mumbai metropolitan region
66	Development of android based mobile application on dairy management practices and its effectiveness for dairy farmers
67	Analysis of reproductive disorder in dairy animals in Parbhani district of Marathwada region
68	Goat rearing pattern and extent of adoption of scientific practices by Osmanabadi goat keepers in Latur region of Maharashtra state
Department of Veterinary Public Health	
69	Effect of electron beam irradiation on quality attributes of chicken Products stored at refrigeration temperature
70	Effect of electron beam irradiation on microbiological qualities of modified atmospheric packaged raw chicken stored at refrigeration temperature
71	Quality Evaluation of modified atmosphere packaged raw chevon treated with electron beam irradiation stored at refrigeration temperature
72	Detection of <i>Trichinella</i> species in pigs and rodents by artificial digestion and real-time PCR assays
73	Evaluation of synergistic effect of hydrogen peroxide and ultraviolet radiation on microbial quality of table eggs
74	Molecular surveillance of Rotaviruses in animal and human origin from western Maharashtra
75	Detection of colistin resistance in <i>E.coli</i> and Salmonella species isolated from flies trapped at farm premises of food animals and poultry
Department of Veterinary Pharmacology & Toxicology	
76	Validation of method and pharmacokinetic assessment of formaldehyde in various animal origin products by reverse-phase High Pressure Liquid Chromatography (HPLC)
77	Evaluation of fluralaner for endocrine disruption and embryonic toxicity in zebrafish model
78	Effect of <i>Aloe Vera</i> gel and mint tea on Letrozole induced polycystic ovary syndrome in Wistar rats
79	Evaluation of Anti-cancer activity of <i>Clerodendrum infortunatum</i> against induced fibrosarcoma in mice
80	Protective effect of <i>Zingiber officinale</i> and its combination with L-ascorbic acid on induced lead toxicity



	in poultry
81	Isolation and characterization of acaricidal principle of some herbs and its efficacy against <i>Rhipicephalus microplus</i> (Acarina: Ixodidae)
82	Acaricidal activity and phytochemical analysis of medicinal plants against <i>Rhipicephalus</i> (<i>Boophilus</i>) <i>Microplus</i> (Acarina: Ixodidae)
83	Evaluation of hepatoprotective and antioxidant effects of <i>Cassia fistula</i> in carbon tetra chloride induced hepatotoxic Wistar rats
84	Evaluation of hepatoprotective and antioxidant activity of <i>Tephrosia Purpurea</i> L. against CCl ₄ intoxicated Wistar rats
85	Evaluation of some plant extracts for their effect on angiogenesis
86	Evaluation of some plant extracts for their anti-angiogenic potential in mouse model
87	In vitro antibacterial activity of <i>Azadirachta indica</i> leaves extract in aqueous and different cow urine solvents
88	Effect of acetamiprid on malathion induced toxicity with special reference to male reproductive system in Wistar rats
89	Ameliorative effect of <i>Tribulus terrestris</i> on subacute acephate induced toxicity with special reference to male reproductive system of Wistar rat
Department of Veterinary Pathology	
90	Incidence and pathology of feline panleukopenia in domestic cats
91	Clinico-pathological studies on respiratory affections of caprine
92	Clinico-pathological studies of skin lesions in pet animals
93	Pathological studies of fish diseases in and around Mumbai with special reference to <i>Aeromonas Spp.</i> and <i>Edwardsiella tarda</i>
94	Anti-cancer activity of <i>Tinospora cordifolia</i> on induced mammary tumor in mice
95	Study on host pathogen interactions of <i>Listeria monocytogenes</i> in cell culture, <i>Galleria mellonella</i> and mice
96	Pathological studies on effect of <i>Murraya koenigii</i> leaves powder against experimentally induced colibacillosis in broiler
97	Toxicopathological evaluation of <i>Anagallis arvensis</i> and its amelioration by <i>Tribulus terrestris</i> in Wistar rats
98	Studies on ameliorative effect of <i>Tribulus terrestris</i> on experimentally induced ochratoxigenesis in broiler
99	Pathological studies and molecular diagnosis of <i>Mycoplasma gallisepticum</i> and <i>Mycoplasma synoviae</i> infection in broiler chickens from western Maharashtra
100	Effect of <i>Azadirachta indica</i> leaf powder on <i>Clostridium perfringens</i> induced infection in broilers
101	Subacute toxicity of ketoprofen and its amelioration with zinc oxide nanoparticles in Wistar rat
102	Effect of green synthesized <i>Bryophyllum pinnatum</i> silver nanoparticles on induced urolithiasis in Wistar rat
103	Ameliorative effect of <i>Tinospora cardifolia</i> against methotrexate induced toxicity in mice
Department of Veterinary Parasitology	
104	Bio-ecological aspects and integrated management of <i>Lyperosia</i> - <i>Haematobia</i> complex (Diptera: Muscidae) in Maharashtra state



105	Molecular characterization and vector potential of Ixodid cattle ticks in different regions of Maharashtra State and their integrated management
106	Evaluation of bacterial biocontrol agents against cattle tick <i>Rhipicephalus microplus</i> (Acarina: Ixodidae) under field conditions
107	Epidemiology and molecular characterization of <i>Theileria</i> spp. infecting bovines of Marathwada region
Department of Veterinary Microbiology and Biotechnology	
108	Molecular characterization of Rabies virus and assessment of targeted gene expression in rabid dogs
109	Molecular characterization and differential identification of <i>Brucella abortus</i> from vaccine strain S-19
110	Characterization of <i>Staphylococcus</i> and <i>E. coli</i> from raw milk of cattle and buffalo
111	Molecular detection and characterization of <i>Mycoplasma</i> spp. associated with poultry mycoplasmosis
112	Sero-Surveillance of Rabies in dogs and molecular characterization of rabies virus
113	Development of truncated Infectious Bursal Disease virus VP2 protein based diagnostic antigen and its efficacy as candidate immunogen
114	Studies on molecular profiling of Bovine Rotaviruses
115	Molecular characterization of <i>Canine parvovirus</i> by multiplex PCR and phylogenetic analysis of VP2 gene from clinical cases
116	Molecular detection of causative agents associated with diarrhea in calves
117	Studies on miRNA expression in <i>peste- des-petits ruminants</i> virus and genes associated with immune response and immunity
118	<i>In vitro</i> efficacy of bacteriophages against bacteria isolated from bovine mastitis
119	<i>In vitro</i> efficacy of bacteriophages against bacteria isolated from wound cases
120	<i>In vitro</i> efficacy of bacteriophages against bacteria isolated from metritis of domesticated animals
121	Molecular characterization of Chicken Infectious Anaemia virus in layer birds
122	Application of novel PSR method for molecular detection of <i>Mycoplasma gallisepticum</i> in chicken
Department of Veterinary Surgery and Radiology	
123	Clinical evaluation of adipose-derived mesenchymal stem cells and porcine skin biological bandaging for the treatment of wound in dog
124	Long bone fracture management with or without osteoinducer and its comparative evaluation by ct scan & computed radiography in dog
125	Laparoscopy assisted diagnostic protocols for surgical conditions of thoracic cavity in dogs
126	Clinical evaluation of total laparoscopic gastropexy in dog
127	Clinical evaluation of preanaesthetic combinations in conjunction with propofol-isoflurane anaesthesia for laparoscopic surgery of dogs
128	Surgical management of obstructive uropathy in tom cats
129	Study on clinical management of pleural effusion by thoracocentesis and implanted pleural port in small animals
130	Evaluation of the laser for excision of superficial tumours in dogs
131	Surgical management of lower urinary tract affections in dogs with reference to urethrocystoscopy
132	Comparative evaluation of locking compression plates and cuttable plates for long bone fracture repair in dogs
133	Comparative evaluation of two surgical techniques for castration in bucks
134	Comparative evaluation of two surgical techniques for patellar desmotomy in cattle



135	Clinical studies on upward luxation of patella with reference to alterations in medial patellar ligament in cattle
136	Comparative evaluation of total intravenous anaesthesia and inhalation anaesthesia in cattle
137	Endoscopic assessment of oesophagus and stomach affections in dog
138	Anaesthetic efficacy of propofol and ketamine-propofol admixture with butorphanol as constant rate infusion using fluid bag technique in dog
139	Comparative efficacy of propofol and thiopental-propofol admixture as total intravenous anaesthesia in dog
140	Comparative evaluation of right lateral flank and ventral mid line approach for ovariohysterectomy in dog
141	Comparative efficacy of green synthesized silver nanoparticle ointments of <i>Azadirachta indica</i> and <i>Catharanthus roseus</i> on wound healing in goat
Department of Veterinary Clinical Medicine, Ethics and Jurisprudence and Department of Veterinary Preventive Medicine	
142	Therapeutic efficacy of intermittent hemodialysis in dogs and its assessment on quality of life
143	Comparative efficacy of antifungal drugs in <i>Malassezia</i> dermatitis in dogs
144	Efficacy of <i>Phyllanthus niruri</i> on hepatic disorders in dogs
145	Clinico-therapeutic studies on sub-acute ruminal acidosis in cattle
146	Comparative efficacy of arteether and buparvaquone against theileriosis in cattle
147	Studies on prophylaxis of subclinical mastitis in cows
148	Efficacy of <i>Embelia ribes</i> seed powder and dried <i>Aloe vera</i> pulp against gastrointestinal helminthosis in goats
149	Efficacy of <i>Curcumin</i> against subclinical mastitis in goats
150	Alternative therapeutic management of canine demodectosis
151	Therapeutic evaluation of <i>Azadirachta indica</i> and <i>Murraya koenigii</i> leaves in bovine subclinical mastitis
152	Diagnostic evaluation of foreign body syndrome in cattle by using ultrasonography and radiography
153	Molecular diagnosis of tuberculosis in elephants (<i>Elephas maximus</i>) in Maharashtra
154	Prevalence of trypanosomosis in horses
155	Sero-prevalence of brucellosis in small ruminants
156	Blood transfusion as an adjunct therapy in severe cases of haemolytic anaemia in cattle
157	Therapeutic management of toxic hepatitis in buffaloes
158	Whole blood transfusion as an adjunct therapy in bubaline phosphorous deficiency haemoglobinuria
159	Comparative efficacy of ivermectin and moxidectin against gastrointestinal nematodes in horses
160	Therapeutic management of <i>Ehrlichiosis</i> in dogs
Department of Animal Reproduction, Gynaecology and Obstetrics	
161	Comparison of intra-cervical artificial insemination by vaginoscope and hysteroscope in goats
162	Doppler ultrasonographic evaluation of fetal circulation during pregnancy in goats
163	Efficacy of various therapies in non infectious repeat breeder dairy cows for fertility augmentation
164	Comparative efficacy of various therapeutic protocols for incomplete cervical dilatation in goats
165	Induction of ovarian cyclicity in post partum anoestrus indigenous cows using CIDR based hormonal protocols
166	Comparative efficacy of different CIDR protocols for treatment of anoestrus in buffaloes
167	Comparative efficacy of herbal ecobolic tablets along with different intrauterine therapies in infectious



	repeat breeder cows
168	Studies on herbal ecobolic tablets alongwith garlic extract, neem oil, lugols iodine and <i>E. coli</i> LPS for intra uterine therapies in infectious repeat breeder buffaloes
169	Efficacy of different methods of estrus induction protocol with artificial insemination in Osmanabadi goats
170	Efficacy of intrauterine ozone therapy on reproductive performance of cows with subclinical uterine infection
171	Seminal attributes, preservation and fertilizing ability of refrigerated and cryopreserved semen berari bucks
172	Dietary supplementation of fish oil with vitamin-e and its effect on semen quality in dogs
173	Detection of ovulation time and effect of administration of hCG after mating on litter size in bitches
174	Effect of different vacuum pressures on oocyte recovery and <i>in vitro</i> maturation of oocytes collected by ultrasound guided trans vaginal follicular aspiration in cattle
175	Effect of maturation media on early embryonic development of goat immature oocytes

8.7. LIST OF MEMORANDAM OF UNDERSTANDING (MoUs) SIGNED BY MAFSU DURING 2019-2020

Sr. No.	Name of Agency
1	M/s Vista Processed Foods Pvt Ltd, Taloja, Distt. Raigardh & MAFSU, Nagpur
2	Rashtriya Vaidyak Prasarak Mandal's Radhakishan Toshniwal Ayurved Mahavidyalaya, Akola and PGIVAS, Akola
3	Akola Municipal Corporation, Akola and PGIVAS, Akola

8.8. RESEARCH PUBLICATIONS

Sr. No.	Faculty	National research publications	International research publications
1	Veterinary Science	305	34
2	Fisheries Science	07	01
3	Dairy Technology	03	02
	Total	315	37



Sr.No	Veterinary Anatomy
	National
1	Hmangaihuali E.V., S.A. Gaikwad., J. Saina., V. Ralte and T. Lalmalsawma (2020) Comparative study on ground structure and wear pattern of dentition in domestic animals. Journal of Entomology and Zoology Studies. 8 (2): 717-721.
2	Mainde U.P., S.B. Banubakode., N.C. Nandeshwar., S.W. Bonde., R.Y. Charjan., A.M. Salankar and P.M. Gedam (2019) Histological and Histochemical studies of sweat glands in goat (<i>Capra hircus</i>). International Journal of Science Environment and Technology. 8 (1) : 63-69.
3	Mainde U.P., S.B. Banubakode., N.C. Nandeshwar., R.Y. Charjan and A.M. Salankar (2019) Histological and histochemical studies of sebaceous glands in goat (<i>Capra hircus</i>). Indian Journal of Veterinary Anatomy. 154-155.
4	Charjan R.Y., N.C. Nandeshwar., S.B. Banubakode., N.V. Kurkure and S.W. Bonde (2019) Cuticular and medullary structure of some wild herbivores. The Indian Journal of Veterinary Sciences and Biotechnology. 15 (1): 14-16.
5	Rana J., S.B. Banubakode., N.C. Nandeshwar., N.V. Kurkure., J.P. Korde and S.K. Patel (2020) Histochemical changes during development of Harderian gland in chicken. Indian Journal of Animal Research. 54: 41-46.
6	Jadhav K.A., J.Y. Waghaye., P.N. Thakur., S.D. Kadam and M.S. Palaskar (2019) Comparative light microscopic study of splenic stroma in male and female local domestic pig (<i>Sus scrofa domestica</i>). Journal of Entomology and Zoology Studies. 7(2):898-903.
7	Kadam S.D., J.Y. Waghaye and P.N. Thakur (2019) Histomorphological study of spleen in post-hatched Japanese quail (<i>Coturnix coturnix japonica</i>). Journal of Entomology and Zoology Studies. 7(1):1581-1585.
	Veterinary Physiology
	National
8	Kekan P.M., S.D. Ingole., A.S. Nagvekar., S.V. Bharucha and S.D. Kharde (2019) Evaluation of anti-mullerian hormone in heifers and anestrous Murrah buffaloes. Indian Journal of Animal Sciences. 89 (7): 718-721.
9	Wakade B.A., S.D. Ingole., S.V. Bharucha and A.S. Nagvekar (2019) Effect of toxin binders on immunity and aflatoxin M1 residues in milk in buffaloes. Indian Journal of Animal Sciences. 89 (9): 944-950.
10	Kekan P.M., S.D. Ingole., A.S. Nagvekar., S.V. Bharucha., S.D. Kharde., D.P. Kadam, C. N. Galdhar., P.S. Masare and S.G. Deshmukh (2019) Evaluation of anti - mullerian hormone, antral follicle count and progesterone concentration during estrous cycle in Murrah buffaloes. Indian Journal of Animal Sciences. 89 (11): 1200-1204.
11	Gupta M., A. Thakre., J.P. Korde., K.B. Bhiram., V.M. Sardar and S.D. Dudhe (2019) Effect of adiponectin on proliferation of granulosa and luteal cells of buffalo ovary. International Journal of Livestock Research. 9 (4):195-205.
12	Devhane N.D., V.R. Patodkar., V.M. Sardar., P.V. Mehre., L.A. Pangaonkar and S.M. Bhalerao (2019) Certain micromineral concentrations during different stages of growth in female Pandharpuri buffaloes. International Journal of Agriculture Sciences. 11: 8212-8215.
13	Patil U.R., V.R. Patodkar., V.M. Sardar., P.V. Mehre and L.A. Pangaonkar (2019) Certain serum trace minerals in Pandharpuri buffaloes. Journal of Entomology and Zoology Studies. 7(5):742-744.



14	Patodkar V.R., S.N. Jadhav, C.D. Bhong., A.K. Barate and P.V. Mehre (2019) Seasonal variation in levels of copper and zinc in soil, feed, fodder and serum of dairy animals from Satara district of Maharashtra. International Journal of Agriculture Sciences. 11: 8964-8967.
15	Patodkar V.R., S.N. Jadhav, A.K. Barate., Y.B. Jadhav and P.V. Mehre (2019) Seasonal variation in levels of copper and zinc in soil, feed, fodder and serum of dairy animals from Sangli district of Maharashtra. International Journal of Agriculture Sciences. 11: 8996-8999.
16	Patodkar V.R., S.N. Jadhav, C.D. Bhong., A.K. Barate and P.V. Mehre (2019) Seasonal variation in levels of copper and zinc in soil, feed, fodder and serum of dairy animals from Kolhapur district of Maharashtra. International Journal of Agriculture Sciences. 11: 8979-8982.
17	Patodkar V.R., P.V. Mehre and S.N. Jadhav (2019) Leptin hormone diversity in different species-explained with polymorphism study in Pandharpuri buffalo. Journal of Entomology and Zoological Studies. 7: 414-416.
18	Jadhav S.N., P.V. Mehre., C.S. Mote., V.R. Patodkar and L.A. Pangaokar (2019). First basic biochemical and Physiological analysis of black kites during Uttarayan: A Comparison of injured versus healthy. Journal of Entomology and Zoology Studies. 7: 179-182.
19	Dhenge S.A., N.E. Gade., O. Mishra and M.M. Vaidya (2019). <i>In vitro</i> cytotoxic effects of hybrid graphene oxide nanocomposites (hGO NCs) on cryopreserved caprine Wharton's jelly derived mesenchymal stem cells (WJ-MSCs). Journal of Experimental Biology and Agricultural Sciences. 7(3):335-342.
20	Rajwade N., K.Kiran., M.K. Gendley., M. Dubey., N.E. Gade., S.A. Dhenge., D. Sahu and R.K.Yadav (2019) Effect of dietary supplementation of rumen protected methionine and lysine on haematological and blood biochemical profile in Sahiwal female calves. International Journal of Agricultural Sciences. 11(8): 8322-8324.
21	Dhenge S.A., N.E. Gade., O. P. Mishra., A. Kumar and V.N. Khandait (2020) In vitro cytocompatibility assessment of nitrogen doped graphene oxide gold (N2-GO-Au) nanohybrid in caprine Wharton's jelly derived mesenchymal stem cells (WJ-MSCs) and erythrocytes. Journal of Entomology and Zoology Studies, 8(1):1608-1612.
22	Kumar A, N.E. Gade., O. P. Mishra., J.R. Khan., S.A. Dhenge., S.K. Yadav and A. Soni (2020) Effects of graphene quantum dots on physiological characteristics of Caprine oocyte maturation. Journal of Entomology and Zoology Studies, 8(1): 896-899.
23	Vaidya M.M and Singh S.V (2019) Liver enzymes activity in periparturient high and low yielding Sahiwal and Karan Fries Cows during summer and winter season. Indian Journal of Dairy Science. 72 (4): 408-412.
24	Vaidya M.M and Singh S.V (2019) Body heat storage and physiological responses of Periparturient Karan Fries and Sahiwal cows during summer and winter season. Indian Journal of Animal Nutrition. 36 (3): 266-275.
25	Vaidya M.M., S.V. Singh and A.K. Singh (2019) Effect of thermal stress on HSP 72 and leptin mRNA gene expressions and milk yield of periparturient dairy cows. Journal of Agrometeorology. 21 (Special Issue-1):1-8.
	International
26	Gupta M., A. Thakre., K.B. Bhiram., V.M. Sardar., S.D. Dudhe., J.P. Korde., S.W. Bonde and N.V. Kurkure (2019) Abundance of adiponectin mRNA transcript in the buffalo corpus luteum during the estrous cycle and effects on progesterone secretion in vitro. Animal Reproduction Science. 208:106110.



27	Gupta M., K.B. Bhiram., V.M. Sardar, J.P. Korde., S.P. Magar., S.W. Bonde and N.V. Kurkure (2019) Expression and localization of adiponectin and its receptors in ovarian follicles during different stages of development and the modulatory effect of adiponectin on steroid production in water buffalo. <i>Reproduction in Domestic Animals</i> . 54:1291-1303.
28	Wankar A.K., G. Singh and B. Yadav (2019) Effect of temperature x THI on acclimatization in buffaloes subjected to simulated heat stress: physio-metabolic profile, methane emission and nutrient digestibility. <i>Biological Rhythm Research</i> pp.1-15. https://doi.org/10.1080/09291016.2019.1673652 .
29	Yadav B., G. Singh and A.K. Wankar (2019) Acclimatization dynamics to extreme heat stress in crossbred cattle. <i>Biological Rhythm Research</i> pp. 1-12. https://doi.org/10.1080/09291016.2019.1610627 .
30	Kulkarni A.V., A.S. Nagvekar., S.D. Ingole., S.V. Bharucha., P.M. Kekan., S.D. Kharde and N.R. Dagli (2019) Interleukin 1 β (IL-1 β) and protein profile during different stages of gestation in buffalo. <i>Buffalo Bulletin</i> . 38 (1): 41-48.
31	ChaithraShree A.R., S.D. Ingole., V.D. Dighe., A.S. Nagvekar., S.V. Bharucha., N.R. Dagli., P.M. Kekan and S.D. Kharde (2019) Effect of melatonin on bovine sperm characteristics and ultrastructure changes following cryopreservation. <i>Veterinary Medicine and Science</i> . 6: 177-186.
Veterinary Biochemistry	
National	
32	Bhoite S.H., M.V. Khodke., S.H. Dalvi and D. Golher (2019) Protein profile during peripartum period in Berari goat. <i>Chemical Science Review and Letters</i> . 8 (29): 48-52.
33	Bhoite S.H., M.V. Khodke., S.H. Dalvi., P.R. Rathod., P.S. Kuralkar and M.G. Patil (2019) Serum ionized calcium and macro minerals levels during peripartum period in Berari goat. <i>International Journal of Livestock Research</i> . 9 (6): 109-116.
34	Dalvi S.H (2019) Recent advances in diagnostic procedure for endocrine disorders in dogs and cats. <i>International Journal of Livestock Research</i> . 9 (5):10-18.
35	Lahamge M.S., A. Thakre., S.W. Bonde., S.D. Borkar., A.P. Somkuwar and D.V. Patil (2019) Prevalence of subclinical mastitis in cows: in and around Nagpur region. <i>International Journal of Current Microbiology and Applied Sciences</i> . 8 (12):83-88.
36	Yeotikar P.V., S. Nayyar., C. Singh., C.S. Mukhopadhyay., S. Kakkar and R. Jindal (2019) Seasonal variation in oxidative stress markers of Murrah buffaloes in heavy metal exposed areas of Ludhiana. <i>Indian Journal of Animal Research</i> . 53 (10): 1310-1315.
37	Singh R., H. Kour., P. Kumar., M.S. Bhadwal and P.V. Yeotikar (2019) Social and economical parameters influencing awareness of animal welfare among dairy farmers of Kathua district of J & K state. <i>International Journal of Applied and Pure Bioscience</i> . 8 (2): 179-186.
38	Sanap M.J and N.Z. Gaikwad (2019) Iozymes: A diagnostics bio-markers of animal diseases. <i>Life Sciences Leaflets</i> . 116: 5-16.
Livestock Production and Management	
National	
39	Bandewad R.W and P.H. Pawar (2019) Efficacy of different concentrate to roughages ration on growth performance of Osmababadi kids in Marathwada region. <i>Indian Journal of Animal Sciences</i> . 89 (12): 1408-1410.
40	Siddiqui M.B.A., S.S. Chopade and D.G. Dighe (2019) Effect of feeding hydroponics maize fodder on growth performance in crossbred calves. <i>Journal of Entomology and Zoology Studies</i> . 7(3): 1227-1232.
41	Tarmale K.B., A.H. Kodape and P.H. Pawar (2019) Effect of feeding hydroponics maize fodder on growth



	performance in crossbred calves. The Journal of Bombay Veterinary College. 1: 15-17.
42	Gumade S.B., A.H. Kodape and G.S. Ambore (2019) Effect of different feeding regime on growth performance of Dangi calves. The Journal of Bombay Veterinary College. 2: 25-28.
43	Nair R.G., J.M. Chahande and S.J. Chahande (2019) Effect of feeding Osmanabadi kids with partially replaced Azolla supplemented with panchagavya and probiotic on growth performance. Asian Journal of Science and Technology. 10 (11): 10442-10445.
44	Jagtap A.S., J.M. Chahande and V.K. Basunathe (2019) Comparative study of partial and complete replacement of field grown maize with hydroponic maize and their effect on haematological parameters in Osmanabadi does. International Journal of Science Environment and Technology. 8 (2): 320-326.
45	Siddiqui MBA., S.S. Chopade., M.V. Dhumal., M.P. Sawane., B.N. Ramteke., D.G. Dighe and R.N. Waghmare (2019) The study of floor and water sample analysis of various categories of dairy farms in and around Mumbai. Journal of Entomology and Zoology Studies. 7 (3):1227-1232.
46	Padhare K.S., A.V. Khanvilkar., S.T. Hande., V.R. Patodkar., S.M. Bhalerao., G.S. Sonawane., M.N. Rangnekar., S.M. Bhokre and S. Raut (2019) Effect of feeding azolla meal on growth performance in Osmanabadi goat kids. Progressive Research-An International Journal. 14: 279-281.
47	Raziz S.J., A.S. Chandra., T. Raghunandan., M. Ganaprakash and S.M. Bhokre (2019) Effect of dietary supplementation of chromium and vitamin E with selenium on physiological performance and feed intake of Holstein Friesian cattle under heat stress. Progressive Research-An International Journal 14 (4): 286-290.
48	Bhokre S.M., N. Rajanna., M. Kishan Kumar., D. Nagalakshmi., DBV Ramana and M. Shashikumar (2019) Nutritional composition of Moringa (<i>M. oleifera</i>) leaves as an alternative for conventional concentrate feeding in small ruminant. Progressive Research-An International Journal. 14 (4): 519-521.
49	Bodare P.A., A.V. Khanvilkar., S.M. Bhalerao., S.T. Hande., A.Y. Doiphode and K.T. Mule (2019) Effect of feeding Different Combinations of Urea Treated sugarcane Tops Silage on milk yield and its composition in Murrah Buffaloes. Indian Veterinary Journal. 96: 18-20.
50	Gadhe M.G., A.V. Khanvilkar., S.M. Bhalearo., S.T. Hande., M.N. Ranganekar and T.C. Shende (2020) Performance of Holstein Frisian crossbred cattle fed on urea treated sugarcane tops silage. Haryana Veterinarian. 58: 207- 208.
51	Bandewad R.W., P.H. Pawar., V.M. Salunke., N.Z. Gaikwad., M.M. Vaidya and V.B. Dongre (2019) Efficacy of different concentrate to roughage ratio on growth performance of Osmanabadi kids in Marathwada region. Indian Journal of Animal Sciences. 89 (12): 1408-1410.
52	Channa G.R., AKS Tomar., H.O. Pandey and Cherryl Miranda (2019) Effect of age at calving and lactation order on milk yield per kg live body weight in Murrah buffaloes under institutional farm conditions. International Journal of Livestock Research. 9 (9): 51-56.
53	Shinde K.P., R. Chandra., C.D. Grover., G. Panchbhai., S. Verma., S.K. Gupta and A.K. Singh (2019) Effect of supplementation of <i>Lactobacillus plantarum</i> CRD 2 and <i>Lactobacillus rhamnosus</i> CRD 9 probiotic cultures on physiological responses in Murrah buffalo calves. Journal of Pharmacognosy and Phytochemistry. 8 (2):1790-1799.
54	Regar P.C., M.L. Kamboj., M. Sawant., G.J. Panhcbhai and N.S. Rawat (2019) Breeding management practices of goats followed by tribal farmers in Rajasthan. International Journal of Pure and Applied Bioscience. 7 (3): 245-248.
Animal Nutrition	
National	



55	Gavade V.S., G.M. Gadegaonkar, B.N. Ramteke., A.G. Pagdhune and A.B. Kanduri (2019) Effect of supplementation of rumen protected methionine and lysine in crossbred calves. International Journal of Livestock Research. 9 (4):182-188.
56	Pagdhune A.G., B.N. Ramteke., G.M. Gadegaonkar and S.D. Jagdale (2019) Effect of supplementing selenium, yeast, and vitamin E on performance of lactating buffaloes. International Journal of Livestock Research. 9 (5):160-167.
57	Prabhale B.R., B.N. Ramteke., G.M. Gadegaonkar and S.D. Ingole (2019) Effect of replacement of maize with dry bakery waste with or without lysophospholipid in broiler diet. International Journal of Livestock Research. 9 (6): 204-208.
58	Dhawale S., A.D. Deshmukh., S.B. Kawitkar., A.P. Dhok., M.R. Jawale., S.V. Chopde., S. R. Lende and C.R. Peddapalli (2018) Performance of goats as affected by replacement of concentrate mixture by maize hydroponic fodder. Indian Journal of Animal Nutrition. 35 (4):485-487.
59	Jadhav S.A., A.D. Deshmukh., A.P. Dhok., C.B. Shembekar., S.B. Kawitkar., S.S. Zambre., D.S. Raghuvanshi., S.R. Lende and P.D. Thakre (2020) Utilization of cotton stalk in pelleted complete feed of growing goats. Indian Journal of Small Ruminants (Accepted)
60	Lende S.R., A.D. Deshmukh., A.P. Dhok., N.V. Kurkure., S.W. Bonde., J.M. Chahande., S.B. Kawitkar., D.S. Raghuvanshi and K.P. Kharkar (2019) Effect of bypass nutrients on pH and water holding capacity of goat meat. International Journal of Current Microbiology and Applied Sciences. 8 (8):1825-1829.
61	Wankhede S.M., A.D. Deshmukh., D.H. Rekhate., S.J. Manwar., S. Sajid Ali and J.P. Korde (2019) Effect of different levels of roasted guar (<i>Cyamopsis tetragonoloba L.</i>) korma with or without β -mannanase supplementation on performance and carcass traits of broilers. Indian Journal Animal Research. 53 (11):1469-1474.
62	Rewatkar H.N., S.M. Wankhede., J.L. Agashe., R.M. Padole., A.D. Jadhao and G.M. Jadhao (2019) The effect of supplementation of oregano oil and probiotic on intestinal microbes (Namely <i>E. coli</i> spp., <i>Salmonella</i> Spp., <i>Clostridia</i> spp.) of the broiler chicken. International Journal of Livestock Research 9 (7): 77-84.
63	Jadhav G.M., S.M. Wankhede., D.H. Rekhate., A.P. Dhok., P.S. Bankar and H.N. Rewatkar (2019) Effect of supplementation of acidifiers with probiotic on performance of broiler chicken. Indian Journal of Animal Nutrition. 36 (3): 325-328.
64	Jadhav S.A., S.M. Bhalerao., A.V. Khanvilkar and S.D. Changan (2019) Turmeric (<i>Curcuma longa</i>) and ginger (<i>Zingiber officinale</i>) powder on carcass characteristics of broilers. Indian Veterinary Journal. 96 (6): 27-29.
65	Redekar M.H., S.M. Bhalerao., A.V. Khanvilkar., V.R. Patodkar., A.Y. Doiphode and S.N. Jadhav (2019) Effect of supplementation of <i>Moringa oleifera</i> leaf meal on nutrient digestibility and haemato-biochemical parameters of growing sheep. Haryana Veterinarian. 58(2): 213-216.
66	Jadhav S.A., S.M. Bhalerao., A.V. Khanvilkar., S.D. Changan and L.A. Pangaonkar (2019) Economics of turmeric and ginger in broiler feeds. Indian Veterinary Journal. 96 (6): 23-25.
67	Changan S.D., S.M. Bhalerao., A.V. Khanvilkar and V.U. Dhande (2019) Wet distillers grain solubles (WDGS) production performance in cows. Indian Veterinary Journal. 96 (8): 38-40.
68	Jadhao A.B., S.M. Bhalerao., A.V. Khanvilkar., V.R. Patodkar and A.Y. Doiphode (2019) Effect of partial replacement of maize with soybean hulls in concentrate mixture on performance of growing goats. Indian Veterinary Journal. 96 (6): 34-36.



69	Redekar M.H., S.M. Bhalerao., A.V. Khanvilkar and V.R. Patodkar (2019) <i>Moringa oleifera</i> leaf meal supplementation on the performance of growing sheep. Indian Veterinary Journal. 96 (6): 43-45.
70	Gantayat B., S.M. Durge., S.A. Amrutkar and V.B. Dongre (2019). Effect of dietary incorporation of short chain and medium chain fatty acid on feed intake and serum metabolites in broiler chicken. Indian Journal of Animal Nutrition. 36 (4): 414-418.
Poultry Science	
National	
71	Kadam M.M (2019) Optimization of dietary Protein and energy requirement of Kadknath chicken during starter phase. Journal of Animal Research. 9 (1): 1-7.
72	Aniket S., M. G. Nikam., M.V. Dhumal., K. Deshpande and S. Gaikwad (2019). Effect of ginger and thyme essential oils as an alternative to antibiotic growth promoters on performance, immune status and economics of broiler production. International Journal of Livestock Research. 9 (7): 32-39.
73	Asrar Ahmed., M.V. Dhumal., M.G. Nikam., P.V. Nandedkar and V.S. Ingle (2019) Effect of supplementation of organic acids and their combination as an alternative to antibiotic growth promoter on performance, gut health, immune status and economics of broiler production. International Journal of Livestock Research. 9 (2): 154-165.
74	Ghorpade S., M.R. Wade, A.S. Ranade., P.P. Mhase., V.S. Dhaygude and S.M. Bhalerao (2020) Utilization of shellfish processing industry waste slurry on the performance of broiler chickens. Veterinary Research International. 8 (1):18-22.
75	Kulkarni R.C., A. D. Dingore., S.M. Durge., O. P. Dinani and S. A. Amrutkar (2019) Supplementation of different emulsifiers on performance of broilers. Journal of Entomology and Zoology Studies. 7(5): 25-29.
76	Sahu A.C., S.J. Manwar., M.A. Gole., K.K. Khose., M.R. Wade and S.V. Kuralkar (2019) Effect of lemon and orange peel essential oils on performance of broiler chickens during summer. Indian Journal of Poultry Science. 54 (2):139-145.
77	Agashe J.L., S.J. Manwar., M.A. Gole., K.K. Khose and M.R. Wade (2019) Studies on supplementation of <i>Moringa oleifera</i> leaf powder on gut health of broilers and moisture percentage of litter in poultry shed. Journal of Entomology and Zoology Studies. 7(3): 1026-1029.
78	Dafade S.S., M.A. Gole., S.J. Manwar., S.M. Wankhede., P.R. Rathod and S. Ali (2019) Effect of oregano essential oil with multi-enzyme in protein reduced diet on broiler performance. Journal of Entomology and Zoology Studies. 7(5): 1407-1413.
79	Khose K.K., S. J. Manwar., M.A. Gole., R. Ingole and P.R. Rathod (2019) Replacement of synthetic choline chloride by herbal choline in diets on liver function enzymes, carcass traits and economics of broilers. Journal of Animal Research. 9 (1): 87-93.
80	Khose K.K., S.J. Manwar., R.N. Dhore., M.V. Joshi and M.A. Gole (2020). Inclusion of sorghum distillers dried grains with solubles and multi-enzyme supplementation on immune response and nutrient utilization in broilers. Journal of Entomology and Zoology Studies. 8(2):1505-1509.
81	Dafade S.S., M.A. Gole., S.J. Manwar., M.R. Wadde., K.K. Khose and A.D. Rathod (2019) The study of immune response and carcass characteristic in broilers fed with oregano essential oils with multi enzyme in protein reduced diet. Journal of Entomology and Zoology Studies. 7(6): 1162-1165.
International	
82	Sahu A and S. J. Manwar (2019) Effect of dietary supplementation of lemon and orange peel essential oils



	-investigations on carcass traits and sensory attributes of meat in broiler chickens. <i>Fleischwirtschaft International</i> . 7:96-100.
83	Manwar S.J and P. Jadhav (2019) Dietary supplementation of medium chain fatty acids in broiler chickens. <i>EC Veterinary Science</i> . 4 (7): 451.
Animal Genetic Breeding	
National	
84	Kulkarni T.V., M.P. Sawane., V.D. Pawar., R.S. Deshmukh., M.M. Chopade and S.A. Ingle (2019) Genotyping of HF crossbred cattle breeding bulls for A1/A2 variant of β -casein gene. <i>Journal of Livestock Biodiversity</i> . 9 (1):16-19.
85	Khade A.S., M.P. Sawane., V.D. Pawar and R.R. Nair (2019) Estimation of genetic variability parameters in Indian HF cattle using microsatellite markers. <i>International Journal of Science, Environment and Technology</i> . 8 (2):305-311.
86	Khade A.S., M.P. Sawane., V.D. Pawar., B.K. Maurya and R.R. Nair (2019) Validation of microsatellite markers for parentage verification in Indian HF cattle. <i>International Journal of Current Microbiology and Applied Sciences</i> . 8 (3):1246-1252.
87	Ghotge D., U.D. Umrikar., M.P. Sawane and V.D. Pawar (2019) Cytogenetic analysis in domestic cats. <i>International Journal of Sciences Basic and Applied Research (IJSBAR)</i> . 47:141-146.
88	Dudule P.D., D.S. Kale., A. Sonwane., D.V. Patil., M.R. Jawale and K.P. Kharkar (2020). PCR- RFLP polymorphism at exon 3 and promoter region of prolactin gene in Gaolao Cattle. <i>Indian Journal of Animal Research</i> . DOI:10.18805/ijar.B-3745.
89	Khandare P.M., D.S. Kale., P.G. Koringa., D.V. Patil and A.P. Dhok (2020) DNA Sequence variation within STAT1 gene of Gaolao cattle. <i>International Journal of Current Microbiology and Applied Science</i> . 9 (3):2883-2893.
90	Ali Sajid., S.V. Kuralkar., M.V. Ingawale., S.P. Waghmare., S.J. Manwar., R.S. Kaatria and V. Vohra (2019) Phenotypic characterization, management and socio-economic impact of Purnathadi buffalo. <i>Indian Journal of Animal Sciences</i> . 89 (7):798-800.
91	George J., S.V. Kuralkar., S.S. Ali., P.S. Bankar., P.S. Kuralkar and S.G. Deshmukh (2019) Study of polymorphism of kappa casein genes in Marathwadi and Purnathadi buffalo. <i>Ruminant Science</i> . 7(2): 213-2015.
92	Joshi A., P.S. Bankar., S.V. Kuralkar., S.S. Ali., S.G. Deshmukh and P.S. Kuralkar (2019) Genetic polymorphism of alpha-lactalbumin and beta-lactoglobulin genes in Marathwadi buffalo. <i>Ruminant Science</i> 8 (1): 200-204.
Livestock Products Technology	
National	
93	Shukla V., S.K. Mendiratta., R.J. Zende., R. Agarwal and S.R. Badhe (2019) Enhancement of quality and shelf life of chicken patties using an edible coating of chitosan. <i>International Journal of Current Microbiology and Applied Sciences</i> . 8(8): 406-417.
94	Wanjari T.P., S.R. Badhe., V.H. Shukla., S.R. Yadav and V.M. Vaidya (2019). Evaluation of garlic extract in extending shelf life of paneer. <i>International Journal of Livestock Research</i> . 9 (7):100-110.
95	Rathod K.S., R.K. Ambadkar and N.V. Kurkure (2019) Effect of super chilling and 24 h storage on histological structure of breast fillet. <i>Journal of Meat Science and Technology</i> 7(1): 8-11.
96	Koshle M., R.K. Ambadkar and K.S Rathod (2019) Standardization of chicken sticks incorporated with custard apple (<i>Annona squamosa L.</i>) pulp extract. <i>Journal of Meat Science and Technology</i> . 7(4): 45-49.



97	Chappalwar A.M., V. Pathak., M. Goswami., A.K. Verma and V. Rajkumar (2020) Quality evaluation of low fat chicken patties incorporated with different fat replacers. International Journal of Livestock Research. 9 (1):14-21.
98	Chappalwar A.M., V. Pathak., M. Goswami and A.K. Verma (2020) Development of functional chicken patties with incorporation of mango peel powder as fat replacer. Nutrition and food Science. (Ahead of print)
99	Goswami M., V. Pathak, S.K. Bharti., A.M. Chappalwar., S. Ojha., S. Singh and S. Singh. (2019) Effect of low temperature preservation on quality characteristics of meat. Journal of Animal Feed Science and Technology. 7(1): 41-45.
100	Kumbhar V., M.K. Chatli and S.N. Rindhe (2019). Applications of microencapsulation technique in dairy food industry: an overview. Beverage and Food World. 46 (6):29-31.
101	Singh S., M. Goswami., V. Pathak., A.M. Chappalwar and S. Ojha (2019) Potential application of nanotechnology based innovations in meat industry. International Journal of Food, Nutrition and Dietetics. 7(3):129-135.
102	Choudhary C.K., S.V. Londhe., D.P. Patil., G.R. Gangane., P.N. Bhumre., P.A. Shinde and A.S. Nemade (2019) Evaluation of shelf-life of Bengal gram flour based Japanese quail meat nuggets. Journal of Entomology and Zoology Studies. 7 (3): 999-1003.
103	Bhumre P.N., S.V. Londhe., C.K. Choudhary., P.A. Shinde and A.S. Nemade (2019) Standardization and evaluation of Wheat flour based noodles enriched with different levels of eggs International Journal of Livestock Research. 9 (7): 135-142.
104	Shinde P., S.V. Londhe., C. Choudhary., P.N. Bhumre and A.S. Nemade (2019) Assessment of shelf life of Japanese quail meat nuggets using finger millet flour (<i>Eleusinecoracana</i>) during refrigerated storage. Journal of Chemical Science Review and Letters. 8 (29): 83-90.
105	Nemade A.S and S.V. Londhe (2019) Standardization, quality evaluation and cost of production of cookies incorporated with spent hen meat powder. International Journal of Science and Research. 8 (12):1332-1336.
106	Chingakham B.D., M.K. Chatli., K. Bains., Harpreet Kaur and S.N. Rindhe (2019) Enrichment of Wheatgrass (<i>Triticumaestivum L</i>) juice and powder in milk and meat-based food products for enhanced antioxidant potential. International Journal of Current Microbiology and Applied Sciences. 8 (4): 1329-1342.
107	Rindhe S.N., M.K. Chatli., R.V. Wagh., Amanpreet Kaur., N. Mehta., P. Kumar and O.P. Malav (2019) Black soldier fly: a new vista for waste management and animal feed. International Journal of Current Microbiology and Applied Sciences 8 (1):1329-1342.
Veterinary & AH Extension Education	
National	
108	Pawara A., A. Bhanotra., M. Sawant., A. Ghatare and N. Sonawane (2019) Decision building pattern of farm women in poultry value chain in thane district of Maharashtra. Journal of Pharmacognosy and Phytochemistry. 8(3):167-171.
109	Pawara A., A. Bhanotra., M. Sawant., A. Ghatare and N. Sonawane (2019) Socio-economic status of Mumbai metropolitan farm women involved in poultry value chain. Indian Journal of Pure and Applied Sciences. 7(4):415-421.
110	Pawara A., A. Bhanotra., M. Sawant., A. Ghatare and N. Sonawane (2019) Time utilization pattern and strength, weakness, opportunities, threats (swot) among poultry value chain in Thane district of



	Maharashtra. Asian Journal of Agricultural Extension, Economics and Sociology. 35 (2):1-8.
111	Nilkanth V., A. Bhanotra., M. Sawant., S. Yankam and A. Ghatare (2019) Socio-personal and economic profile of ITK practising dairy farmers in Palghar district of Maharashtra. International Journal of Farm Sciences 9 (2):15-19.
112	Maske M., S.P. Landge., M. Sayre and R.V. Bhavani (2019) Nutritional and livelihood security through backyard poultry model in tribal regions of Maharashtra, India. Indian Journal of Poultry Science. 54 (2): 175-179.
113	Mishra N.K., S.P. Landge., V.V. Banthiya., S.S. Chopade., A.P. Dhok and D.V. Patil (2019) Perceived information needs of dairy farmers from Nagpur district of Maharashtra, India. International Journal of Current Microbiology and Applied Sciences. 8(11): 2181-2186.
114	Sulakhe V.V., S.R. Kolhe., M.P. Nande., S.M. Bhalerao and A.Y. Doiphode (2020). Development of 'Goatvision'- an android based mobile application for goat farmers. International Journal of Current Microbiology and Applied Science. 9: 1965-1973.
115	Shirsat S.G, S.R. Kolhe., M.P. Nande., A.V. Khanvillkar and T.C. Shende (2019). Socioeconomic Status and Sheep Husbandry Practices of Migratory Shepherds in Western Maharashtra. International Journal of Pure and Applied Bioscience. 7: 105-112.
116	Shirsat S.G, S.R. Kolhe., M.P. Nande., A.V. Khanvillkar and T.C. Shende (2019). Study of migratory pattern of Shepherds. International Journal of Agricultural Sciences. 11: 8242-8245.
117	Nande M.P., S.R. Kolhe and S.G. Shirsat (2019) Socioeconomic status in relation to adoption of Animal husbandry practices of dairy farmers. International Journal of Pure and Applied Bioscience. 7: 471-475.
118	Khode N.V., B.P. Singh and D.M. Badukale (2019) Role performance and job satisfaction among trainers of Krishi Vigyan Kendras in Maharashtra. Journal of Krishi Vigyan. 7(2): 211-216.
119	Nakula R., H. Tripathi., M. Chander., N.V. Khode and R. Yadav (2019) Construction of scale to measure attitude of state department of animal husbandry personnel towards indiscriminate use of antibiotics in animals. Indian Journal of Extension Education. 55 (3): 128-131.
120	Khode N.V., B.P. Singh and D.M. Badukale (2019) Perceived constraints in organization of farmers training: a case of Krishi Vigyan Kendras in Maharashtra state. International Journal of Livestock Research 9 (5): 241-248.
Pathology	
National	
121	Sawale G.K., M. Lakshman., S.D. Raut., N.R. Bulbule., M.M. Chawak., D. Madhuri and Y.N. Reddy (2019) Seroprevalence of avian Reovirus infection in apparently healthy adult commercial layer flocks. International Journal of Livestock Research. 9(8):172-176.
122	Kumar R.Y., K. Sandhayarani., G. Ramesh., B. Mahesh., G. K. Sawale and M. Lakshman (2019) Fatty liver haemorrhagic syndrome (FLHS) in broilers. Journal of Animal Research. 9 (6):879-882.
123	Kumar R.Y., M. Lakshmi Namaratha., G.K. Sawale., G. Ramesh., B. Mahesh., A.G. Reddy and M. Lakshman (2019) Occurrence of intestinal and caecal coccidiosis in Rajasri Birds. Journal of Animal Research. 9(6): 875-878.
124	Patil D.P., M. Usharani., A. G. Reddy., B. Kalakumar., G.K. Sawale and K. Vanitha (2019) Chemical synthesis and characterization of selenium nanoparticles. Chemical Science Review and Letters. 8 (32):161-165.
125	Meshram P.V., N.S. Bembde., R.R. Deshpande., P.B. Bomble., M. V Shetye., R. P Dhule., V.S., Dhaygude., P.D. Gadhave and D.P. Kadam (2019) Analysis of haematological data for canine samples with special reference to anemia. Chemical Science Review and Letters. 8 (30):221-225.



126	Bembde N.S., P.V. Meshram., P.D. Gadhave., V.M. Vaidya., S.S. Sole and R.R. Rohi (2019) An acute toxicity study of <i>Tylophora indica</i> leaves extract in Wistar rats. <i>Toxicology International</i> . 25 (3):15-20.
127	Bembde N.S., P.V. Meshram., M.K. Patil and J. Shaikh (2020) The preliminary phytochemical analysis of <i>ethanolic extract</i> of <i>Tylophora indica</i> . <i>Research Journal of Pharmacognosy and Phytochemical</i> . 12(1):1-6.
128	Pujari N.S., R.B. Ambade., P.V. Meshram., S.J. Komatwar and R.V. Gaikwad (2019) Thyroid hormones and some biochemical profiles in different age groups of adult labrador dogs. <i>Chemical Science Review and Letters</i> . 8 (30):193-197.
129	Gadhav P.D., S.G. Pethe., V.S. Dhaygude., D.P. Kadam., B.R. Dash and P.V. Meshram (2020) An incidental finding of uterine leiomyoma in <i>Panthera pardus</i> . <i>Indian Veterinary Journal</i> . 97 (2): 50-52.
130	Thorat S.R., S.S. Shinde., P.Y. Badwaik., M.J. Ashar., A.A. Chavan., P.P. Gaonkar., M.P. Kaore and N.V. Kurkure (2019) Pox in wild pigeon from Nagpur, central India- a case report. <i>Indian Journal of Veterinary Pathology</i> . 43 (1): 68-70.
131	Ghodke D.D., R.S. Ingole., M.S. Hedau., P.R. Rathod., S.W. Hajare and K.K. Khose (2019) Ultra-structural pathology of liver due to subacute acephate toxicity in broiler chickens. <i>Indian Journal of Veterinary Pathology</i> . 43 (2): 720-723.
132	Pore P.M., R.S. Ingole., M.S. Hedau, S.W. Hajare, K.K. Khose and M.V. Ingawale (2019) Effect of <i>Andrographis paniculata</i> on hematobiochemical profile during monensin induced toxicity in Japanese quails. <i>Journal of Pharmacognosy and Phytochemistry</i> . 8(2): 1465-1468.
133	Bhosale P., S.W. Hajare., R.S. Ingole., M.V. Ingawale., P. Rathod., M.S. Hedau and S.P. Waghmare (2019) Protective effect of <i>Curculigo orchioides</i> on hematobiochemical alterations induced by cypermethrin subacute toxicity in Wistar rats. <i>The Pharma Innovation Journal</i> . 8(7): 482-485.
134	Wagh A.C., G.R. Gangane., B.W. Naraladkar., S.D. Moregaonkar, C.S. Mamde., P.A. Chavan., S.R. Narote and R.U. Tandale (2019) Studies on prevalence of metacystodiosis in caprines of Marathwada region of Maharashtra state. <i>Journal of Entomology and Zoology Studies</i> . 7(2):401-404.
135	Lande T.B., G.R. Gangane., S.D. Moregaonkar., G.B. Kulkarni., S.R. Narote., P.A. Chavan and R.U. Tandale (2019) Ameliorative effect of <i>Withania somnifera</i> on growth performance and pathomorphological alterations in experimentally induced aflatoxicosis in broilers. <i>International Journal of Science, Environment and Technology</i> . 8 (2): 298-304.
136	Tandale R.U., S.D. Moregaonkar., G.R. Gangane., S.R. Narote and P.A. Chavan and A.N Choudhari (2019) Snake bite in buffalo-a case report. <i>International Journal of Science. Environment and Technology</i> . 8(3): 645- 648.
137	Narote S.R., S.D. Moregaonkar., G.R. Gangane., R.U. Tandale., P.A.Chavan and Shete H.J. (2019) Traumatic ulcerative abomasitis with unusual foreign bodies in abomasum of a cow- necropsy. <i>International Journal of Science, Environment and Technology</i> . 8 (3):649- 652.
138	Chavan P.A., G.R. Gangane., S.D. Moregaonkar., S.R. Rajurkar and G.D. Ranvir (2019) Determination of LD50 of aqueous extract of <i>Anagallis arvensis</i> in Wistar rats. <i>International Journal of Chemical Studies</i> . 7(6):943-945.
139	Tandale R.U., S.D. Moregaonkar., G.R. Gangane., M.V. Dhumal., A.R. Deshpande., P.B. Ghorpade and P.A. Chavan (2019) Hemato-biochemical assessment of induced <i>E. coli</i> infection in broiler birds and treated with curry leaves powder (<i>Murraya koenigii</i>) and Leofloxacin. <i>Journal of Entomology and Zoology Studies</i> . 7(6):1020-1025.
140	Narote S.R., S.D. Moregaonkar., G.R. Gangane., P.R. Suryawanshi., P.A. Chavan and P.B. Ghorpade (2020)



	Haemato-biochemical studies on experimental ochratoxigenesis in broiler: its amelioration by fruit power of <i>Tribulus terrestris</i> and toxin binder alone and in combination. Journal of Entomology and Zoology Studies. 8 (2): 34-38.
141	Bagal U.R., V.S. Dhaygude., B.P. Kamdi., C.S. Mote., S.B. Bhosale and M.M. Pawde (2019) Pathology and molecular diagnosis of <i>M. gallisepticum</i> and <i>M. synoviae</i> infections in broiler chickens in western Maharashtra. Journal of Animal Research 9(6): 897-902.
142	Shinde A.R., M.A. Khan., S.G. Chavhan., R.R. Mugale., N.Z. Gaikwad and S.P. Awandkar (2020) Effect of neem (<i>Azadirachta indica</i>) leaf powder on <i>Clostridium perfringens</i> induced infection in broiler chicks. International Journal of Livestock Research. 10 (5): 97-105.
143	Pathak V.P., P.R. Rathod and S.G. Mode (2019) Clinical diagnosis of Oncocerciasis. International Journal of Science, Environment and Technology. 8 (2): 331-333.
144	Rathod P.R., R.S. Ingole., V.C. Ingale., S.V. Kuralkar., S.J. Manwar., S.W. Hajare., M.V. Ingawale and P.N. Rathod (2019) Identification of <i>E. coli</i> collected from water of various farms from Akola region. Journal of Entomology and Zoology Studies. 7(3):397-400.
145	Tikore P.V., P.R. Rathod., R.S. Ingole., M.V. Khodke and K.K. Khose (2019) Toxicity of fenvalerate on immune system and immuno-modulatory effects of <i>Withania somnifera</i> (Ashwagandha) in cockerels. Indian Journal of Veterinary Pathology. 43 (2):115-119.
146	Tikore P.V., P.R. Rathod., R.S. Ingole., M.V. Khodke and K.K. Khose (2019) Protective effects of <i>Withania somnifera</i> on biochemical profile of hepato-renal and endocrine system in fenvalerate exposed cockerels Journal of Entomology and Zoology Studies. 7 (3): 397-400.
147	Ingole R.S., M.V. Joshi, S.W. Hajare, M.V. Ingawale and S.V. Kuralkar (2019) Effect of saline water on hematological parameters in rat. Indian Journal of Veterinary Pathology. 43 (2):140-143.
148	Ilamkar S.N., P.R. Rathod., R.S. Ingole., S.W. Hajare and M.V. Khodke (2020) Ameliorative effect of hydro-ethanolic extract of <i>Tinospora cordifolia</i> against methotrexate induced toxicity in mice. Journal of Entomology and Zoology Studies. 8 (1): 505-510.
	International
149	Sonwane S., R.S. Ingole., M.S. Hedau and S.W. Hajare (2019) The ameliorative effect of <i>Andrographis paniculata</i> on <i>E. coli</i> induced pathology in broilers. Veterinarski Arhiv. 89 (4): 545-557.
150	Kishnani P.M., N.V. Kurkure., S.B. Barbuddhe., S.P. Doijad., T. Chakraborty., H.F. Dagainawala., L.K. Singh and R.S. Kashyap (2019) Draft genome sequence of <i>Listeria monocytogenes</i> CIIMS-NV-3, a Strain isolated from vaginal discharge of a woman from Central India. Microbiology Resource Announcement: e01553-18.
151	Vergis J., SVS Malik., R. Pathak., M. Kumar., S. Ramanjaneya., N.V. Kurkure, S.B. Barbuddhe and D.B. Rawool (2019) Antimicrobial efficacy of Indolicidin against multi-drug resistant enteroaggregative <i>Escherichia coli</i> in a <i>Galleria mellonella</i> model. Frontiers in Microbiology. 10: 2723.
152	Singh S., R. Singh., K.P. Singh., V. Singh., YPS. Malik., B.P. Kamdi., R. Singh and G. Kashyap (2019) Prevalence of bovine Coronavirus infection in organized dairy farms of Central and North regions, India. Biological Rhythm Research. doi.org/10.1080/09291016.2019.1629093.
153	Singh S., R. Singh., K.P. Singh., V. Singh., YPS. Malik., B.P. Kamdi., R. Singh and G. Kashyap (2019) Epidemiological study of naturally occurring bovine Rotavirus infection in organized dairy farms, India. Biological Rhythm Research. doi.org/10.1080/09291016.2019.1614749.
154	Singh S., R. Singh., K.P. Singh., V. Singh., YPS. Malik., B.P. Kamdi., R. Singh and G. Kashyap (2020) Immunohistochemical and molecular detection of natural cases of bovine Rotavirus and Coronavirus



	infection causing enteritis in dairy calves. Microbial Pathogenesis. 138:103814.
	Microbiology and Biotechnology
	National
155	Aher T.S., R.S. Gandge and S.S. Bhav (2019) Antibacterial susceptibility testing of <i>Mycoplasma gallisepticum</i> isolated from poultry. Indian Journal of Animal Sciences. 89 (11): 1221-1223.
156	Luitel P.L., R.S. Gandge and S.B. Majee (2020) Molecular detection of <i>Mycoplasma synoviae</i> infection in poultry. Asian Journal of Research in Animal and Veterinary Sciences. 5(1):1-7.
157	Warke S.R., S. Bobad., P.A Tembhurne and V.C. Ingle (2019). Paleovirology: blessing or curse of ancient viruses. Agricultural Review. 40 (4): 329-333.
158	Dorlikar P.R., S.R. Warke., U.M. Tumlam and V.C. Ingle (2019) Comparative efficacy of Canine Parvovirus-2 infection diagnostic tests commonly prevailing in India. The Indian Journal of Veterinary Sciences and Biotechnology. 14 (4): 51-52.
159	Dorlikar P.R., S.R. Warke., U.M. Tumlam and V.C. Ingle (2019) Isolation and identification of Canine Parvovirus infection from around Nagpur region. Journal of Entomology and Zoology Studies. 7 (4): 216-219.
160	Tumalm U.M., V.C. Ingle and S.R. Warke (2019) Molecular characterization and phylogenetic analysis of Rotavirus of human infants, calves and piglets. Journal of Entomology and Zoology Studies 7 (4): 956-960.
161	Warke S.R., V.C. Ingle and U.M. Tumlam (2019) Isolation and molecular characterization of <i>Listeria monocytogenes</i> in bovines and their environment. Journal of Entomology and Zoology Studies. 7 (6): 339-348.
162	Sruthy S., U.M. Tumlam., S.R. Warke., V.C. Ingle., G.R. Bhojane and M.S. Hedau (2019) VP6 gene based RT-PCR for detection of Rotavirus associated with diarrhea in bovine calves. Journal of Entomology and Zoology Studies. 7(6): 373-376.
163	Magar S., S.R. Warke., V.C. Ingle and U.M. Tumlam (2020) Molecular typing of Canine Parvovirus -2 occurring in Nagpur by multiplex PCR. Journal of Entomology and Zoology Studies. 8 (1): 91-95.
164	Ade M.J., V.C. Ingle., P.A. Tembhurne., U.M. Tumlam., A.S. Kadam., G.R. Bhojne and Sonkusale (2019). Incidence and molecular characteriation of Rotavirus of cattle and buffalo calves in Amravati Region, Maharashtra. The Indian Journal of Veterinary Sciences and Biotechnology. 14(3): 20-23.
165	Warke S.R., V.C. Ingle and N.V. Kurkure (2019) Incidence of <i>Listeria monocytogenes</i> in bovine environment with respect to phenotypic and genotypic characterization - A review. International Journal of Current Microbiology and Applied Sciences. 8(11): 1-28.
166	Kadam A.S., P.A. Tembhurne., S.W. Bonde., S.P. Chaudhary., N.V. Kurkure and V.C. Ingle (2019) Molecular detection of group A Rotaviruses from the Bhandara and Chandrapur district of Maharashtra State, India. International Journal of Current Microbiology and Applied Sciences 8(9): 2555-2564.
167	Bhoyar P., P.A. Tembhurne., R. Bhate., P. Tarale., A. Nemade., A. Kadam., J. Kesharkar and V.C. Ingle (2019) Molecular detection of peste des-petits Ruminant Virus (PPRV) by RT-PCR. International Journal of Current Microbiology and Applied Sciences. 8(11): 2594-2601.
168	Manjramkar K.S., P.R. Suryawanshi., A.R. Deshpande., S.S. Gaikwad., N. Pathan and S. Deshpande (2019) Isolation of bacteria from bovine mastitis and their antibiotic sensitivity pattern. The Journal of Bombay Veterinary College. (Accepted)
169	Pathan N., P.R. Suryawanshi., A.R. Deshpande., S.S. Gaikwad., S. Deshpande and K.S. Manjramkar (2019) Isolation and antimicrobial profiling of bacteria from domesticated animals with metritis. International



	Journal of Zoology studies. 4 (6):19-23.
170	Kulkarni M.B., A.R. Deshpande., S.S. Gaikwad., S.B. Majee., P.R. Suryawanshi and S.P. Awandkar (2019) Molecular epidemiology of Canine Parvovirus shows CPV-2a genotype circulating in dogs from western India. Infection Genetics Evolution. 75:103987.
171	Muglikar D.M., I.H. Kalyani., D. Desai., J. Patel., D. Patel., P. Makwana and J. B. Solanki (2019) Serotyping and antimicrobial susceptibility pattern of avian pathogenic <i>Escherichia coli</i> . International Journal of Current Microbiology and Applied Science. 8: 505-511.
172	Walunj T., P.P. Mhase., S.S. Bhawe., D.M. Muglikar and M.M. Pawade (2019) Detection of brucellosis by serological techniques. International Journal of Current Microbiology and Applied Sciences. 8: 2124-2134.
173	Pawade M.M., P.R. Shelke., P.P. Mhase., D.M. Suryawanshi (2019) Molecular characterization and virulent gene detection of <i>Clostridium perfringens</i> from necrotic enteritis cases in Kadaknath. International Journal of Livestock Research. 9: 79-85.
174	Kulkarni M.B., S.S. Deshmukh., S.M. Agiwale and S.P. Awandkar (2019) Antibigram studies on nasal affections in equine. species. Intas Polivet. 20 (2): 385-389.
175	Awandkar S.P., S.S. Ghoke., S.M. Agivale and M.B. Kulkarni (2019) Equine Paratyphoid and its Management in a Kathiawari horse. Intas Polivet. 20 (2): 395-396.
176	Thorat S.R., D.B. Rawool., P.M. Sonkusale., S.R. Warke., S.P. Choudhari and N.V. Kurkure (2019) Virulence profiling of <i>Listeria monocytogenes</i> isolated from different sources. International Journal of Current Microbiology and Applied Sciences. 8 (5): 2010-2017.
	International
177	Viswanathan V., R. Pharande., A.S. Bannaliker., P. Gupta., U. Gupta and A. Mukne (2019) Inhalable liposomes of <i>Glycyrrhiza glabra</i> extract for use in Tuberculosis: formulation, in vitro characterization, in vivo lung deposition, and in vivo pharmacodynamic studies. Drug Development and Industrial Pharmacy. 45 (1): 11-20.
178	Kulkarni M.B., A.R. Deshpande., S.S. Gaikwad., S.B. Majee., P.R. Suryawanshi and S.P. Awandkar (2019) Molecular epidemiology of Canine Parvovirus shows CPV-2a genotype circulating in dogs from western India. Infection, Genetics and Evolution. (75):103987 https://doi.org/10.1016/j.meegid.2019.103987
179	P.R. Suryawanshi., C. Badapanda., K.M. Singh and A. Rathore (2019) Exploration of the rumen microbial diversity and carbohydrate active enzyme profile of Black Bengal goat using metagenomic approach. Animal Biotechnology. 12:1-14.
	Parasitology
	National
180	Palampalle H.Y., B.W. Narladkar., J.G. Gudewar., U.K. Chaudhari., S.B. Majee and M.L. Gatne (2019) Studies on antigenic profile of <i>Cysticercus cellulosae</i> in pig to develop specific immunodiagnostic test. Journal of Entomology and Zoology Studies. 7(4): 172-177.
181	Bharkad G.P., H.Y. Palampalle., B.W. Narladkar., A.S. Bannaliker., R.J. Zende., S.D. Ingole (2019) Hatchability of eggs of deltamethrin and amitraz resistant cattle tick <i>Rhipicephalus microplus</i> of Maharashtra state on treatment with acaropathogenic fungus (<i>Metarhizium anisopliae</i>). Journal of Entomology and Zoology Studies. 7(4): 37-41.
182	Kalwaghe S.T., H.Y. Palampalle., B.W. Narladkar., R.J. Zende., R.S. Gandage and S.A. Ingle (2019) Influence of prevailing weather parameters on population dynamics of gastrointestinal parasites in different geographical regions of Maharashtra. Journal of Entomology and Zoology Studies. 7 (6):767-771.



183	Sharma S., S.W. Kolte., P.J. Gawande., N.V. Kurkure., S.G. Jadhao., C.G. Panchbhai and S. Magar (2019) A comparative study between blood smear, whole blood PCR and FTA card PCR for diagnosis of <i>Theileria annulata</i> and <i>Theileria orientalis</i> in Cattle. Journal of Animal Research. 9 (4): 585-588.
184	Sharma S., S.W. Kolte., P.J. Gawande., N.V. Kurkure., S.G. Jadhao., C.G. Panchbhai and S. Magar (2019) Comparative efficiency of whole blood and FTA card for diagnosis of Theileriosis in buffaloes of Nagpur region, India. International Journal of Current Microbiology and Applied Sciences. 8 (11):2319-7706.
185	Gudewar J.G., B.W. Narladkar., H.Y. Palampalle and S.R. Rajurkar (2020) In vitro evaluation of three herbal oils against larval stages of <i>Lyperosia- Haematobia</i> complex (Diptera: Muscidae). Journal of Entomology and Zoology Studies.8 (2):1169-1174.
186	Gangane G.R., B.W. Narladkar., S.D. Moregaonkar., H.J. Shete., A.R. Chaure., A.N. Chaudhari., S.S. Waghmare., B.S. Jadhav and P.A. Chavan (2019) Concurrent endo and ecto parasitic infections in Deccani sheep. Journal of Entomology and Zoology Studies. 7(1): 634-636.
187	Palampalle H.Y., B.W. Narladkar., A.S. Bannalikal., S.B. Majee., J.G. Gudewar and M. L. Gatne (2019) Prevalence and histopathological studies on porcine cysticercosis in Mumbai region based on abattoir study. International Journal of Livestock Research. 9(1):33-43.
188	Wagh A.C., G.R. Gangane., B.W. Narladkar., S.D. Moregaonkar., C.S. Mamde., P.A. Chavan., S.R. Narote and R.U. Tandale (2019) Studies on prevalence of metacestodiosis in caprines of Marathwada region of Maharashtra state. Journal of Entomology and Zoology Studies. 7(2):401-404.
189	Palampalle H.Y., B.W. Narladkar., J.G. Gudewar., U.K. Chaudhari., S.B. Majee and M.L. Gatne (2019) Studies on antigenic profile of <i>Cysticercus cellulosae</i> in pig to develop specific immunodiagnostic test. Journal of Entomology and Zoology Studies.7(4): 172-177.
190	Bharkad G.P., H.Y. Palampalle., B.W. Narladkar., A.S. Bannalikal., R.J. Zende and S.D. Ingole (2019) Effect of herbal acaricides on hatchability of eggs of deltamethrin and amitraz resistant cattle tick <i>Rhipicephalus microplus</i> . Journal of Entomology and Zoology Studies. 6(5): 629-633.
191	Kalwaghe S.T., H.Y. Palampalle., B.W. Narladkar., R.J. Zende., R.S. Gandge and S.A. Ingle (2019) Influence of prevailing weather parameters on population dynamics of gastrointestinal parasites in different geographical regions of Maharashtra. Journal of Entomology and Zoology Studies. 7(6):767-771.
192	Khawale T.S., MFMF Siddiqui., S.T. Borikar., M.P. Sakhare., S.R. Rajurkar., G.M. Chigure and T.A. Shaffi (2019) Study of occurrence of the theileriosis in cattle from Parbhani district, Maharashtra, India. The Pharma Innovation Journal. 8(9):171-173.
193	Pawar P.D., M.W. Khasnis., N.K. Nighot., A. Deshmukh, V.G. Nimbalkar and L.D. Singla (2019) Parasitological surveillance and successful treatment of gastrointestinal parasites of captive wild animals with albendazole in a zoological collection. Indian Journal of Animal Research. B-3842.
	International
194	Larcombe S.D., S.W. Kolte., G. Ponnudurai., N.V. Kurkure., S. Magar., R. Velusamy., N. Rani., B. Rubinibala., B. Rekha., A. Alagesan., W. Weir and B.R. Shiels (2019) The impact of tick-borne pathogen infection in Indian bovines is determined by host type but not the genotype of <i>Theileria annulata</i> . Infection, Genetics and Evolution. 75:103972.
195	Ajithkumar K.J., A. Fular., G.M. Chigure., A.K. Sharma and G. Nagar (2019) Comparative impact of coumaphos, amitraz and plant extract of <i>Ageratum conyzoides</i> on the oogenesis of <i>Rhipicephalus microplus</i> . Ticks and Tick Borne Diseases.10 (5):1085-1095.
196	Pawar P.D., L.D. Singla., P. Kaur., M.S. Ba and M. Javed (2019). Evaluation and correlation of multiple



	anthelmintic resistances to gastrointestinal nematodes using different fecal egg count reduction methods in small ruminants of Punjab, India. <i>Acta Parasitologica</i> . 64:456–463.
197	Betgiri A.A., S.N. Jadhav., M.M. Pawde., A. Shukla., C.S. Mote., P.D. Pawar., D. Shanmugam and K. Kundu (2019) Mitochondrial cytochrome oxidase C subunit III (cox3) gene as a sensitive and specific target for molecular detection of <i>Babesia gibsoni</i> infection in dogs. <i>Experimental Parasitology</i> . 206: 107771.
Pharmacology & Toxicology	
National	
198	Jagdale R.A., A.P. Somkuwar., S.K. Bhoje., K.G. Sarode and R.P. Limsay (2019) <i>In vivo</i> anti-inflammatory activity and GC-MS analysis of hydroethanolic extract of <i>Caesalpinia bonducella</i> seeds. <i>Journal of Pharmacognosy and Phytochemistry</i> . 8 (3):929-934.
199	Dongare S., A.P. Somkuwar and S.A. Dubey (2019) Hematological study and body weight changes of streptozotocin induced diabetic Wistar rats treated by hydroethanolic leaf extract of <i>Catharanthus roseus</i> . <i>Journal of Pharmacognosy and Phytochemistry</i> . 8 (3): 2933-2937.
200	Pawar A.R., S.R. Rajurkar., N.D. Jadhav., G.R. Gangane and S. Balchim (2019) Pathomorphological assessment of sub acute dermal toxicity of <i>Morinda citrifolia</i> Linn. fruit extract coated gold nano particles in Wistar rats. <i>International Journal of Current Microbiology and Applied Science</i> . 8 (9):1160-1175.
201	Shelke V.B., M. P. Sakhare., MFMF Siddiqui., R. N. Waghmare., N.D. Jadhav and A.S. Tawheed (2019) Prevalence of subclinical mastitis in dairy cows in and around Parbhani. <i>The Pharma Innovation Journal</i> . 8(10): 78-81.
202	Ghadge P.M., S.R. Rajurkar., N.D. Jadhav., G.R. Gangane and P.B. Kansatwad (2019) Hepatoprotective effect of <i>Cassia fistula</i> against carbon tetrachloride induced hepatotoxicity in Wistar rats: Pathomorphological studies. <i>International Journal of Chemical Studies</i> . 7(6):1830-1834.
203	Pawar A.R., S.R. Rajurkar., B.V. Ballurkar., B.W. Naraladkar., N.D. Jadhav and Bhalchim Sachin (2019) Dermal exposure of <i>Morinda citrifolia</i> Linn. fruit extract coated gold nanoparticles: effects on haematological and biochemical parameters in Wistar rats. <i>Toxicology International</i> . 26 (1):15-29.
204	Rajurkar S.S., N.D. Jadhav., S.R. Rajurkar., D.S. Lokhande and B.G. Shingumare (2018). <i>Tribulus terrestris</i> : Herbal Medicated feed as uterine tonic in wistar rats. <i>International Journal of Veterinary Sciences and Animal Husbandry</i> . 3(5): 16-22.
205	Kansatwad P.B., G.D. Ranvir., B.V. Ballurkar., S.R. Rajurkar., N.D. Jadhav and P.M. Ghadge (2020) Evaluation of hepatoprotective and antioxidant activity of <i>Tephrosia purpurea</i> L. against CCl ₄ intoxicated Wistar rats. <i>The Pharma Innovation Journal</i> . 9 (1):290-296.
206	Patil D.P., M. Usharani., A.G. Reddy, B. Kalakumar., G.K. Sawale and K. Vanitha (2019) Chemical synthesis and characterization of selenium nanoparticles. <i>Journal of Chemical Science Review and Letters</i> . 8 (32):161-165.
207	Gadhawe A.M., V.V. Karande., B.C. Ghumare., K. Kundu., S.N. Jadhav and P.P. Mhase (2019) Evaluation of anthelmintic efficacy of ethanolic extract of <i>Azadirachta indica</i> in goats. <i>International Journal of Pure and Applied Biosciences</i> . 7(2): 568-573.
208	Gadhawe A.M., V.V. Karande., B.C. Ghumare., K. Kundu., S.N. Jadhav and P.P. Mhase (2019) Evaluation of anthelmintic efficacy of ethanolic extract of <i>Punica granatum</i> in goats. <i>International Journal of Pure and Applied Biosciences</i> . 7(2): 460-464.
209	Upase A.P., B. C. Ghumare., V.V. Karande., V.R. Patodkar., V.S. Dhaygude and S.B. Lambate (2019) Evaluation of antiangiogenic activity of <i>Artocarpus heterophyllus</i> extract by sponge implantation



	method in mouse. International Journal of Pure and Applied Biosciences. 7 (2): 92-96.
210	Gosavi S.C., V.V. Karande., B.C. Ghumare., C.S. Mote., P.P. Mhase and P.V. Mehere (2019) Evaluation of antiangiogenic activity of <i>Nigella sativa</i> Extract by sponge implantation method in mouse model. International Journal of Pure and Applied Biosciences. 7 (2): 25-29.
211	Virshette SJ., M.K. Patil., A.A. Deshmukh and J.R. Shaikh (2019) Phytochemical analysis of different extract of <i>Azadirachta indica</i> leaves. International Journal of Pharmaceutical Sciences Review and Research. 59 (1):161-165.
212	Virshette SJ., M.K. Patil., N.Z. Gaikwad and J.R. Shaikh (2020) Biochemical examination of Deoni cow urine. International Journal of Chemical Studies. 8 (2):2010-2012.
213	Virshette SJ., M.K. Patil., A.A. Deshmukh and J.R. Shaikh and M.S. Dhas (2020) Phytochemical constituents of different extracts of <i>Azadirachta indica</i> leaves in urine solvent of non-pregnant cow. Journal of Pharmacognosy and Phytochemistry. 9(2):1324-1328.
214	Pawar P., S.W. Hajare., R.S. Ingole., M.V. Ingawale., P. Rathod., S. Jamgade and P. Kuralkar (2020) Effect of acetamiprid on malathion induced haematological alterations in Wistar rats. Journal of Pharmacognosy and Phytochemistry. 9(1): 1471-1474.
215	Rathod P., S.W. Hajare., S. Jamgade., R.S. Ingole., M.V. Ingawale., P. Pawar and S.P. Waghmare (2020) Ameliorative effect of <i>Tribulus terrestris</i> haematological parameters against acephate induced subacute toxicity in Wistar rats. The Pharma Innovation Journal. 9 (2): 23-26.
216	Hajare S.W., R.S. Ingole., Sunidhi., R. Kotagiri and B. Ganguly (2020) Evaluation of acute oral toxicity of a polyherbal liver tonic for poultry. Biosciences Biotechnology Research Asia. 17 (1) : 85-87.
217	Hajare S.W., R.S. Ingole., Sunidhi., R. Kotagiri and B. Ganguly (2020) Evaluation of acute oral toxicity of a calcium and phosphorus supplement for poultry. The Pharma Innovation Journal. 9(3): 218-219.
218	Hajare S.W., R.S. Ingole., Sunidhi., R. Kotagiri and B. Ganguly (2020) Acute oral toxicity of a herbal gut function modulator. Current Journal of Applied Science and Technology. 39 (4): 58-61.
International	
219	Vijayan U.K., S. Varakumar., S.S. Sole and R.S. Singhal (2020). Enhancement of loading and oral bioavailability of <i>Curcumin</i> loaded self-microemulsifying lipid carriers using <i>Curcuma oleoresins</i> . Drug Development and Industrial Pharmacy. 46: 1-34.
Veterinary Public Health	
National	
220	Khillare R.S., R.J. Zende., A.M. Paturkar., K.P. Rawat., K.S.S. Sarma., V.M. Vaidya., D.P. Kshirsagar., V.S. Lande., S.A. Khader., N.B. Aswar., A.H. Shirke., R.P. Todankar and S.M. Tambe (2019) Survival of <i>Salmonella</i> spp. in pork salami at refrigeration temperature after exposure to lower doses of electron beam irradiation. International Journal of Current Microbiology and Applied Sciences. 8(5): 695-702.
221	Waval N., A.M. Paturkar., V.M. Vaidya and R.J. Zende (2019) Seroprevalence of porcine cysticercosis in Maharashtra. Indian Journal of Animal Sciences. 89 (4):365-368.
222	Waghmare R.N., A.M. Paturkar., V.M. Vaidya., R.J. Zende and S.D. Ingole (2019) Quantifying the <i>Salmonella</i> spp. at critical stages of poultry processing by miniature MPN techniques (mMPN). Journal of Entomology and Zoology Studies. 7(2):1089-1093.
223	Manjramkar A.J., V.V. Deshmukh., R.N. Waghmare and M.S. Vaidya (2019) Assessment of antimicrobial properties of cow urine distillates. International Journal of Current Microbiology and Applied Sciences. 8(8): 2556-2565.
224	Waghmare R.N., A. M. Paturkar., V.M. Vaidya., R.J. Zende., Amit Kumar and J.S. Bedi (2020) Screening of



	antimicrobial residues and confirmation of doxycycline in samples collected from chicken farms and processing units located around Mumbai, India. Indian Journal of Animal Research. 10.1805/ijar. B-3899.
225	Rathod A.S., R.N. Waghamare., V.V. Deshmukh., M.S. Vaidya., S.V. Londhe and S.S. Gaikwad (2020) Sanitization of table eggs with treatment of hydrogen peroxide and ultraviolet radiation. International Journal of Livestock Research. 10 (3): 99-107.
226	Dhandore C.V., R.P. Kolhe., U.V. Jagatap., P.D. Deshpande., S.N. Jadhav., D.M. Muglikar., S.M. Nalband., D.G. Gandhale., S.S. Bhavne and P.V. Mehre (2019) Detection of <i>Vibrio vulnificus</i> in water, seafoods and fresh water fish. Journal of Entomology and Zoology Studies. 7: 230-234.
227	Wadaskar B.H., R.P. Kolhe., V.S. Waskar., M.M. Pawade and K. Kundu (2019) Isolation of <i>Escherichia coli</i> and <i>Salmonella species</i> in flies trapped at animal farm premises. Journal of Entomology and Zoology Studies. 7: 198-201.
228	Nalband S.M., R.P. Kolhe., P.D. Deshpande., S.N. Jadhav., D.G. Gandhale., D.M. Muglikar., S.R. Kolhe., S.S. Bhavne., U.V. Jagtap and C.V. Dhandore (2020) Characterization of <i>Escherichia coli</i> isolated from bovine subclinical mastitis for virulence genes, phylogenetic groups and ESBL production. Indian Journal of Animal Research. B-3883.
International	
229	Baraily P., R.J. Zende., D.P. Kshirsagar., V.M. Vaidya., R.N. Waghamare., A.M. Paturkar., R.P. Todankar and A.H. Shirke (2019) Rapid detection of Shiga toxin-Producing <i>E. coli</i> in animal origin foods using Loop-Mediated Isothermal Amplification (LAMP) Assay. Agriculture Research. 8(4): 490-496.
230	Kulesh R., S.V. Shinde., W.A. Khan., S.P. Chaudhari., A.R. Patil., N.V. Kurkure., N. Paliwal., A.V. Likhite., N.N. Zade and S.B. Barbuddhe (2019) The occurrence of <i>Listeria monocytogenes</i> in goats, farm environment and invertebrates. Biological Rhythm Research. doi.org/10.1080/09291016.2019.1660836
Veterinary Medicine	
National	
231	Bhojne G.R., V.M. Dhoot., S.V. Upadhye and Thakur K (2019) Chylous ascites with liver cirrhosis in a dog. Indian Journal of Canine Practice. 11(1): 15-17.
232	Gurnoor Kaur., V.M. Dhoot., G.R. Bhojne., S.V. Upadhye., A.P. Somkuwar and C.G. Panchbhai (2019) Prevalence of renal anemia in Nagpur city. International Journal of Current Microbiology and Applied Sciences. 8(10):911-915.
233	Thade G.C., G.R. Bhojne., V.M. Dhoot., S.V. Upadhye., C.G. Panchbhai and Gurnnor K. (2019) One-year prevalence study of renal failure in canine of Nagpur. International Journal of Current Microbiology and Applied Sciences. 8(10):1-5.
234	Ambore B.N., A.M. Rode., N.P. Dakshinkar., N.V. Kurkure., V.C. Ingle and M. Sakhare (2019) Detection and quantification of <i>Oxalobacter formigenes</i> in soybean crop residue fed cattle. The Pharma Innovation Journal. 8(6): 1092-1097.
235	Jadhav Y.B., G.R. Bhojne., N.P. Dakshinkar., N.V. Kurkure and M.N. Rangnekar (2020) Oral rehydration of adult cattle using isotonic solution of sugar, sodium chloride and potassium chloride. Haryana Veterinarian. 59: 93-95.
236	Thorat A.B., S.T. Borikar., MFMF Siddiqui., S.R. Rajurkar., S.D. Moregaonkar and PB Ghorpade (2019) Effect of sodium bicarbonate, neem and yeast on different ruminal fluid parameters in sub-acute ruminal acidosis. Journal of Pharmacognosy and Phytochemistry. 8 (5):1097-1099.
237	Huilgol N.G., S.T. Borikar and S.B. Swami (2019) Biochemico-hematological profile in mange infested



	pigs. International Journal of Chemical studies. 7 (6):781-783.
238	Shaikh S.R., S.U. Digraskar., MFMF. Siddiqui., S.T. Borikar., S.R. Rajurkar and P.R. Suryawanshi (2019) Epidemiological studies of mastitis in cows reared under different managemental system in and around Parbhani. The Pharma Innovation Journal. 8 (2): 1-5.
239	Siddiqui MFMF., S.R. Shaikh., M.P. Sakhare., S.U. Digraskar., S.T. Borikar, A.M. Syed., T.A. Shafi and T.S. Khawale (2019) Successful therapeutic management of neonatal tetanus in goat. International Journal of Chemical Studies. 7(3):151-152.
240	Wankhade V., S.P. Waghmare., K.S. Pajai., MFMF. Siddiqui., S.W. Hajare., S.S. Ali and S. Zingare (2019) Therapeutic efficacy of polyherbal anti-diarrhoeal preparation in diarrhoeic goats. Journal of Entomology and Zoology Studies. 7(5): 269-270.
241	Khawale T.S., MFMF. Siddiqui., S.T. Borikar., M.P. Sakhare., S.R. Rajurkar., G.M. Chigure and T.A. Shafi (2019) Study of occurrence of Theileriosis in cattle from Parbhani district, Maharashtra, India. The Pharma Innovation Journal. 8 (9):171-173.
242	Shaikh S.R., S.U. Digraskar., MFMF. Siddiqui., A.M. Syed and J.S. Ajabe (2019) Prophylactic potential of tri-sodium iodide citrate on subclinical mastitis in cow in different housing systems. International Journal of Livestock Research. 9 (9): 198-206.
243	Shelke V.B., M.P. Sakhare., MFMF. Siddiqui., R.N. Waghmare., N.D. Jadhav and T.A. Shafi (2019) Prevalence of subclinical mastitis in dairy cows in and around Parbhani. The Pharma Innovation Journal. 10 (8):78-81.
244	Khawale T.S., MFMF. Siddiqui., S.T. Borikar., M.P. Sakhare and T.A. Shafi (2019) Efficacy of Arteether against theileriosis in cattle. Journal of Animal Research. 9 (6): 883-888.
245	Khawale T.S., MFMF. Siddiqui., M.P. Sakhare S.T. Borikar., T.A. Shafi., A.B. Thorat and V.B. Shelke (2020) Study of clinical markers and biochemical parameters in Theileriosis affected cattle treated with Arteether. International Journal of Livestock Research. 10 (3):109-14.
246	Bait K.S, M.D. Meshram., K.P. Khillare., R.S. Ghadge and V.S. Dhaygude (2019) Sero-prevalence of Brucellosis in small ruminants of western Maharashtra. Journal of Entomology and Zoology. 7: 1417-1420.
247	Jadhav K.G., M.D. Meshram., K.P. Khillare., R.S. Ghadge., B.P. Kamdi and K.S. Bait (2019) Prevalence of Trypanosomosis in horses of western Maharashtra. Journal of Entomology and Zoology. 7: 401-404.
248	Ambore B.N., S. Maini., V.R. Patodkar and S.T. Borikar (2019) Effect of transportation on body weight and hematology in goats. International Journal of Current Microbiology and Applied Sciences. 8: 947-952.
249	Lakhpatri A. S., B.N. Ambore., G.D. Wankhede., V.R. Patodkar., R.V. Suryawanshi., A. B. Mali and Y. B. Jadhav (2019) Hematological and radiographic findings in cattle with foreign body syndrome. The Pharma Innovation Journal. 8(10): 268-273.
250	Lakhpatri A. S., B.N. Ambore., G.D. Wankhede., V.R. Patodkar., S.U. Digraskar., R.V. Suryawanshi and A. B. Mali (2019) Foreign body syndrome in cattle: an incidence and clinico-haemato-biochemical changes. International Journal of Current Microbiology and Applied Sciences. 8: 783-796.
251	Shinde R.M., A.U. Bhikane., B.W. Narladkar and P.S. Masare (2019) Antioxidants as an adjunct therapy in clinical management of Babesiosis: A novel approach. Ruminant Science. 8 (1): 93-100.
252	Bhikane A.U., K.S. Kedar., R.K. Jadhav., S.G. Chavhan and Y.M. Wankhede (2019) Successful therapeutic management of onion toxicosis induced haemolytic anemia in bovine. Ruminant Science. 8 (2):1-4.
253	Shah N.D., A.U. Bhikane., S.G. Chavhan., R.K. Jadhav and Neelam Kushwaha (2020) Epidemiological investigations on haemoprotozoan infections in cattle in Marathwada region of Maharashtra.



	International Journal of Livestock Research. 10 (1):32-39.
254	Jadhav R.K., A.U. Bhikane and S.G. Chavhan (2020) Shell rot in turtle and its therapeutic management. Journal of Wildlife Research. 8 (1): 1-3.
255	Shah N.D., A.U. Bhikane., R.K. Jadhav., S.G. Chavhan and A. Mohan (2019). Efficacy evaluation of imidocarb dipropionate in treatment of Babesiosis in cattle. Indian Journal of Veterinary Medicine (Accepted for December 2019).
256	Patil P.V., V.M. Salunke., M.K. Patil., S.S. Ghoke and P.P. Devkatte (2019). Effect of supplementation of glucogenic precursors with B-complex vitamins and minerals on milk yield and milk compositions of Deoni cows. International Journal of Chemical Studies. 7 (2):1883-1884.
257	Bhikane A.U., A.M. Syed., R.M. Shinde., P.S. Masare and S.S. Ghoke (2019). Evaluation of therapeutic efficacy of cefquinome in clinical mastitis in bovine. Intas Polivet. 19 (I): 36-37.
258	Shaikh H.A., A.U. Bhikane., R.K. Jadhav and A. Mohan (2019). Prevalence of hepatic jaundice in indigenous cattle in Marathwada region of Maharashtra. International Journal of Livestock Research. 9 (3):200-206.
259	Wankhade V., S.P. Waghmare., K.S. Pajai, MFMF. Siddiqui., S.W. Hajare., S. Sajid. Ali and G.R. Vaidya (2019) Efficacy of polyherbal anti diarrhoeal formulation in diarrhoeic goats. Journal of Pharmacognosy and Phytochemistry. 8 (3):912-914.
260	Game H., S.P. Waghmare., K.S. Pajai., S.V. Kuralkar., R.S. Ingole and R. Katre (2019) Clinical and haematological study in <i>Ehrlichia infected</i> dogs. Journal of Entomology and Zoology Studies. 7(6): 183-187.
261	Wankhade V., S.P. Waghmare., K.S. Pajai, MFMF. Siddiqui., S.W. Hajare., S. Sajid. Ali and S. Zingare (2019) Therapeutic efficacy of polyherbal anti-diarrhoeal preparation in diarrhoeic goats. Journal of Entomology and Zoology Studies. 7(5): 672-676.
262	Mehesare S.S., S.P Waghmare., M.G. Thorat., S.W. Hajare., P.R. Itankar and S. Sajid Ali (2019) Evaluation of anti diarrhoeal activity of extract of unripe fruit of <i>Aegle marmelos</i> . Journal of Pharmacognosy and Phytochemistry. 8 (4):2390-2392.
263	Mohale D.D., S.D. Chavan., S.R. Shegokar., R.R. Shelke., S.P. Waghmare., S.P. Nage and R.D. Walke (2019) Effect of untreated, calcium, sodium bicarbonate and urea treated soybean straw on feed intake and dry matter intake of lactating cows. International Journal of Chemical Studies. 7(4): 2369-2370.
	International
264	Shafi T.A., MFMF. Siddiqui., M.P. Sakhare., S.T. Borikar., A.M. Syed and S.U. Digraskar (2020) Successful treatment of <i>Lantana camara</i> poisoning in sheep. EC Veterinary Science. 5 (2):1-5.
265	Shafi T.A., B.K. Bansal., S. Sharma., D.K. Gupta and R. Singh (2020) Molecular epidemiology of <i>Staphylococcus aureus</i> of bovine mastitis origin. Veterinarski Arhiv (Accepted).
266	Jadhav A.S., A.U. Bhikane., R.K. Jadhav., N. Kushwaha., S.M. Agivale and A.B. Kanduri (2019) Epidemiology, clinico-biochemistry and evaluation of treatment modalities for the management of osteomalacia in buffaloes. Buffalo Bulletin. 38 (4): 579-592.
	Surgery
	National
267	Lokhande D.U., G.U. Yadav., A.T. Yamgar and P.S. Dakhane (2019) Successful surgical correction of splenic hemangiosarcoma in two dogs. International Journal of Current Microbiology and Applied Sciences. 8(2):697-700.



268	Yadav G.U., D.U. Lokhande., A.T. Yamgar., P.S. Dakhane and A. Bijarpur (2019) Successful surgical correction of osteosarcoma in buck. International Journal of Current Microbiology and Applied Sciences. 7(11):1322-26.
269	Yadav G.U., D.U. Lokhande, A.U. Bhikane and A.T. Yamgar (2019) Comparative evaluation of casting method v/s standing method of castration in bulls - a clinical study. International Journal of Current Microbiology and Applied Sciences. 8(2):693-96.
270	Tripathi S.D., L.B. Sarkate., D.U. Lokhande., G.S. Khandekar., S.H. Dalvi and A.D. Patil (2019) Clinical evaluation of laparoscopic gastric greater curvature serosato serosa plication for weight management in obese dogs. Indian Journal of Veterinary Surgery. 40 (2): 93-97.
271	Neware A.S., S.B. Akhare., P.T. Jadhao., S.V. Upadhye., M.V. Kamble and N.V. Kurkure (2019) Efficacy of electro-chemotherapy for management of superficial malignant tumours in dog. Haryana Veterinarian. 58 (1): 93-96.
272	Nathani R.I., S.V. Upadhye., P.T. Jadhao., S.B. Akhare., P.E. Taksande., G.S. Khante and A.M. Kshirsagar (2019) Endoscopic evaluation of lower urinary tract affections in male dogs. International Journal of Current Microbiology and Applied Sciences. 8(10) 2393-2399.
273	Khante G.S., S.V. Upadhye., P.T. Jadhao., N.P. Dakshinkar., B.M. Gahlod., S.K. Sahatpure and N.V. Kurkure (2019) Some important neurological parameters as diagnostic and prognostic indicators in posterior paresis and hind quarter weakness in dogs. International Journal of Current Microbiology and Applied Sciences. 8(5): 2504-2513.
274	Khante G.S., S.V. Upadhye., P.T. Jadhao., N.P. Dakshinkar., B.M. Gahlod., S.K. Sahatpure and N.V. Kurkure (2019) Neurological examination for diagnosis and prognosis of spinal disorders in dogs. International Journal of Current Microbiology and Applied Sciences. 8 (1):485-493.
275	Pereira N., S.V. Upadhye., P.T. Jadhao., S.B. Akhare., G.S. Khante and N.V. Kurkure (2019) Quantitative analysis of calculi in 20 cases of canine urolithiasis. International Journal of Current Microbiology and Applied Sciences. 8 (1): 314-321.
276	Pitlawar S.S., P.T. Jadhao., B.M. Gahlod., S.V. Upadhye., M.S. Dhakate., S.B. Akhare and N.V. Kurkure (2019) Evaluation of guaifenesin- ketamine- xylazine and diazepam- ketamine- xylazine triple drip for gelding in equines. International Journal of Chemical Studies. 7(1): 975-979.
277	Vaidya S.R., S.D. Chepte., M.G. Thorat., N.P. Bhawe., G.D. Khatal and R.K. Fulsunge (2019) Comparative efficacy of green synthesized silver nanoparticles of <i>Azadirachta indica</i> and <i>Catharanthus roseus</i> on wound healing in goats. Journal of Entomology and Zoology Studies. 7 (4):1336-1339.
278	Khatal G.D., M.G. Thorat., S.D. Chepte., F.A. Fani., S.G. Deshmukh., N.P. Bhawe., S.R. Vaidya and R.K. Fulsunge (2019) Clinical evaluation of right lateral flank and ventral midline approach for ovariohysterectomy in dog. Journal of Entomology and Zoology Studies. 7 (5):957-960.
279	Chepte S.D., M.G. Thorat., S.P. Waghmare., M.V. Ingawale., S.P. Mehesare., M.V. Joshi and F.A. Fani (2019) Comparative evaluation of lignocaine, articaine and ropivacaine for proximal paravertebral anaesthesia in cattle. International Journal of Science, Environment and Technology. 8(3):674 -679.
280	Gajarwar O.S., R.V. Suryawanshi., A.H. Ulemale., M.N. Rangnekar and Phiroz Khambatta (2020) Prevalence of upper respiratory tract affections in thoroughbred horses through resting endoscopy. Haryana Veterinarian. 59: 14-19.
281	Suryawanshi R.V., B.P. Kamadi., S. Lotlikar., A. Khawale and A.H. Ulemale (2019) Surgical management of malignant mammary tumor in two Doberman dog by unilateral chain mastectomy. International Journal of Current Microbiology and Applied Science. 8:1-5.



282	Chougale P.B., R.V. Suryawanshi., A. H. Ulemale., S.B. Lambate., C.S. Mote., A.B. Mali and Y.B. Jadhav (2020) Histomorphological evaluation of medial patellar ligament affected with upward luxation of patella in cattle. International Journal of Livestock Research. 10:77-88.
283	Fani F., M.G. Thorat., S.V. Upadhye., S.V. Kuralkar., S.P. Waghmare., R.N. Dhore., M.V. Joshi and S.D. Chepte (2019) Clinico-physiological and haemato-biochemical alteration in non-penetrating foreign body syndrome with reference to the percentage of plastic in cattle. International Journal of Science, Environment and Technology. 8 (4):882-895.
284	Fulsunge R.K., M.G.Thorat., S.D. Chepte., F.A. Fani., N.P. Bhawe., S.R. Vaidya and G.D. Khatal (2019) Anaesthetic efficacy of thiopental -propofol admixture and propofol as total intravenous anaesthesia in dog. The Pharma Innovation Journal. 8 (9):404-407.
285	Bhave N.P., M.G. Thorat., S.D. Chepte., F.A. Fani., P.S. Kuralkar., R.K. Fulsunge., S.R. Vaidya and G.D. Khatal (2019) Clinical efficacy of propofol and ketofol anaesthesia with butorphenol by constant rate infusion using fluid bag technique in dogs. The Pharma Innovation Journal. 8 (11): 21-23.
286	Siddiqui M., M.G. Thorat., F.A. Fani., S.D. Chepte and S.P. Waghmare (2019) Comparative efficacy of two methods of local analgesia for cow bull castration. Intas Polivet. 20 (1):52-54.
287	Fani F., M.G. Thorat., M. Patil and P.B. Hase (2019) Surgical management of intussusception in a dog. Intas Polivet. 20 (1):146-147.
288	Mate A.A., and V.D. Aher (2019) Comparative evaluation of clinico physiological changes after intravenous administration of dexmedetomidine-butorphenol and dexmedetomidine-midazolam as preanaesthetic with propofol anaesthesia in dog. International Journal of Current Research 2(1):549-555.
289	Avhad C.A., R.V. Raulkar, V.D. Aher, G.P. Dhage and V.A Jadhav (2020) Minimally invasive pinhole technique for castration in bucks. Indian Journal of Veterinary Surgery. 41(1):35-37.
290	Jadhav S.A., V.D. Aher, R.V. Raulkar, G.P. Dhage and C.A. Avhad (2020) Comparative evaluation of stab method and new pinhole method for medial patellar desmotomy in cattle. Indian Journal of Veterinary Surgery. 41(1):56-58.
Animal Reproduction	
National	
291	Shelar R.R., S.U. Gulavane., M.P. Sawane., S.M. Gaikwad., U.B. Kumbhar and R.J. Chaudhari (2019) Effect of vaccination on sexual behaviour of pandharpuri buffalo bulls. The Indian Journal of Veterinary Sciences and Biotechnology. 15 (1): 75-78.
292	Gaikwad S.M., S.U. Gulavane., U.B. Kumbhar., R.R. Shelar and R.J .Chaudhari (2019). Evaluation of puppies by apgar scoring system in normal gestation and threaten abortion in canine. Indian Journal of Animal Research. B-3863.
293	Chaudhari R.J., S.U. Gulavane., M.N. Rangnekar., R.R. Shelar., S.M. Gaikwad and R.S. Jawale (2020). Subclinical endometritis in cross bred cows with special reference to blood-biochemistry and reproductive parameters. Haryana Veterinarian. 59: 41-44.
294	Nalkande G.S., A.D. Patil., S.K. Sahatpure., S.K. Sheetal., D.V. Patil and G.P. Shende (2019) Efficacy of cabergoline on induction estrus in bitches. Indian Journal of Canine Practice. 11 (1):46-47.
295	Lakde C.K., S.K. Sahatpure., A.D. Patil., S.K. Sheetal and A.A. Bind (2019) Clinical diagnosis and therapeutic management of transmissible venereal tumor in canines. Indian Journal of Canine Practice. 11 (1):53-55.
296	Bawaskar M.S., S.K. Sahatpure., V.U. Takle., S.V. Upadhye and G.R. Bhojne (2019) A case of partial fetal



	maceration in German Shepherd bitch and its successful management. Indian Journal of Canine Practice. 11 (1):57-58.
297	Bawaskar M.S., S.K Sahatpure., M.S. Patil., S.V. Upadhye and G.R. Bhojne (2019) Comparative study of hormonal profile in primary uterine inertia bitches. International Journal of Science, Environment and Technology. 8 (1): 229 -232.
298	Anbhule R.S., A.G. Sawale., N.M. Markandeya., B.L. Kumawat., P.D. Kadam and S.R. Lawange (2019) Improvement of conception rate by GnRH or HCG administration on day 5 post AI in non infectious repeat breeder cows. Indian Journal of Animal Reproduction. 40 (1):55-57.
299	Kadam P.D., N.M. Markandeya., B.L. Kumawat., A.G. Sawale., S.R. Lawange and R.S. Anbhule (2019) Efficacy of Neem seed extract with or without <i>Ashwagandha combination</i> for the treatment of endometritis in buffaloes. Indian Journal of Animal Reproduction. 40 (1): 38-41.
300	Lawange S.R., N.M. Markandeya., B.L. Kumawat, A.G. Sawale., R.S. Anbhule and P.D. Kadam (2019) Efficacy of <i>Garlic extract</i> with or without <i>Ashwagandha</i> therapies for the treatment of infectious repeat breeding in cattle. Indian Journal of Animal Reproduction. 40 (1): 31-34.
301	Kadam P.D., N.M. Markandeya., B.L. Kumawat and A.G. Sawale (2019) Comparative efficacy of E. coli lipopolysaccharide for management of fresh and chronic endometritis in buffaloes. Intas Polivet. 20 (1): 28-30.
302	Kumbhar G.B. and N.M. Markandeya (2019) A clinical study on induction of parturition in bovines. Intas Polivet. 20 (1): 31-33.
303	Pujar C., N.M. Markandeya., N.A. Puro., A.B. Mali and B.L. Kumawat (2019) Transrectal and trans-abdominal ultrasonographic pregnancy assessment in Osmanabadi goats. Intas Polivet. 20 (1): 25-27.
304	Zarekar A.U., N.M. Markandeya and D.P. Bhalerao (2019) Enrofloxacin and metronidazol combination therapy for management of infectious repeat breeder syndrome in crossbred cows. Intas Polivet. 20 (1): 20-24.
305	Gujrathi A.R., K.P. Khillare., M.B. Amle., M.D. Meshram., S.N. Jadhav., M.N. Rangnekar and P.P. Mhase (2019) Reproductive disorders in selected cattle dairy farms of Pune and Nasik districts in Maharashtra. Haryana Veterinarian. 58 (S1):104-105.
306	Pitroda M.H., A.B. Mali., M.N. Rangnekar., M.B. Amle and P.J. Tumbare (2019) Dystocia due to single pup syndrome in a Rottweiler she dog: a case report. Haryana Veterinarian. 58 (S1):129-130.
307	Magdum R.R., M.B. Amle., M.N. Rangnekar., S.N. Ladhav., K.P. Khillare and T.C. Shende (2020) Associations between physico-morphological characteristics and antioxidants in Murrah buffalo semen. Haryana Veterinarian. 59 (SI):27-30.
308	D'silva K.L., M.B. Amle., M.N. Rangnekar., A.B. Mali and A.Y. Doiphode (2020) Fertility assessment in relation to ovarian follicular dimensions and GnRH therapy in dairy cattle. Haryana Veterinarian. 59 (SI):34-37.
309	Mali S.S., M.N. Rangnekar., M.B. Amle., K.P. Khillare., A.B. Mali and P.P. Mhase (2020) Efficacy of intrauterine ozone therapy in repeat breeder cows with subclinical uterine infection. Haryana Veterinarian. 59 (SI): PP-83-86.
310	Khillare K.P., H.S. Birade., M.D Meshram., S.A. Bakshi., R.V. Gaikwad and B.W. Naraladkar (2020) Prevalence of haemoprotozoan infections in crossbred cows. Haryana Veterinarian. 58 (SI):102-103.
311	Kadam V.K., A.K. Barate., T.C. Shende., S.N. Jadhav., M.N. Rangnekar., K.P. Khillare and H.S. Birade (2020) Association of semen traits in consecutive ejaculates with FSH- β gene polymorphism in holstein-friesian crossbred bulls from India. Haryana Veterinarian. 59 (SI):38-40.



312	Mogal I.R., W.A.A. Razzaque., S.S. Ramteke., N.Z. Gaikwad., S.S. Ali., R.K. Jadhav and A.S. Mujawar (2019) Effect of vitamin E and seleniun on haemato biochemical constituents in dystocia affected Marathwadi buffaloes. <i>International Journal of Livestock Research</i> . 9 (4):146-153.
313	Patil M.G., M.V. Ingawale., H.S. Birade., S.V. Kuralkar., S.P. Waghmare and S.W. Hajare (2019) Studies on seminal attributes of Berari bucks. <i>Journal of Entomology and Zoology Studies</i> . 7(2): 85-88.
314	Shinde G.S., M.V. Ingawale., C.H. Pawshe., R.S. Ingole and S.W. Hajare (2019) Detection of early pregnancy and twining in goats. <i>Indian Journal of Small Ruminants</i> . 25 (1):121-123.
315	Shinde G.S., M.V. Ingawale., S.V. Kuralkar., P.S. Bankar., S.S. Ali., S.W. Hajare and R.S. Ingole (2019) Follicle stimulating hormone receptor gene polymorphism and its association with fecundity in goats. <i>Indian Journal of Animal Sciences</i> . 89 (7):798-800.
316	Iyer K.B., M.V. Ingawale., S.V. Kuralkar., P.S. Bankar., S.S. Ali, R.S. Ingole., S.W. Hajare and C.H. Pawshe (2019) Association of GnRH receptor gene polymorphism on testicular parameters and semen quality in HF crossbred bulls. <i>Indian Journal of Animal Research</i> . 53 (9):1140-1143.
317	Harkal S.B., C.H. Pawshe., M.V. Ingawale., S.G. Deshmukh., M.B. Ambalkar and Kale S.D. (2019) Effect of frequency of follicular aspiration on recovery of oocytes and follicular development. <i>Journal of Entomology and Zoology Studies</i> . 7(6):568-571.
318	Ramteke S.Y., S.G. Deshmukh., C.H. Pawshe., S.V. Kuralkar., M.G. Thorat and S.D. Kudalkar (2019) Comparative study of different haematological and biochemical parameters. <i>Journal of Entomology and Zoology Studies</i> . 7 (5):972-975.
319	Nikhade C.T., S.G. Deshmukh., S.V. Kuralkar., A.R. Ratnaparkhi., S.D. Chepte and P.S. Bankar (2019) Comparative efficacy of different herbal extracts on subclinical endometritis in postpartum cows. <i>Journal of Entomology and Zoology Studies</i> . 7(4):1422-1426.
320	Ratnaparkhi A.R., S.G. Deshmukh., C.H. Pawshe., V.B. Kale., S.D. Chepte and S.Y. Ramteke (2019) Comparative efficacy of synchronization protocol for improving fertility in postpartum crossbred cows. <i>Journal of Entomology and Zoology Studies</i> . 7 (5):961-964.
	International
321	Dongaonkar K.R., S.U. Gulavane., M.C. Veeraraghavan and K.R. Shelar (2019) Laparoscopic ovariectomy in dogs in late pregnancy. <i>BMC Veterinary Research</i> . 15:19. https://doi.org/10.1186/s12917-018-1770-z
322	Kumbhar U.B., S.U. Gulavane., S.M. Gaikwad., R.R. Shelar, V.P. Deshpande., R. Rebeiro and K. Yadav (2019) Correlation of testicular ultrasonography, testicular biometry, serum testosterone levels and seminal attributes in pre and post-pubertal age for breeding soundness evaluation in Osmanabadi bucks. <i>Tropical Animal Health and Production</i> . 51(6):1467-1480.
323	Kumbhar U.B., V.P. Deshpande., S.U. Gulavane and S.M. Gaikwad (2020) Enhancement of conception rate through luteotropic hormones with special reference to metabolic, biochemical profile and cervical mucus properties in non-infectious repeat breeding Murrah buffaloes. <i>Buffalo Bulletin</i> . 39 (1): 61 - 74.
324	Kumbhar U.B., V.P. Deshpande., S.U. Gulavane., C.N. Galdhar and S.M. Gaikwad (2020) Enhancement of conception rate through luteotropic hormones and its effect on progesterone concentration in non-infectious repeat breeding Murrah buffaloes. <i>Buffalo Bulletin</i> . 39 (1): 75 -84.
325	Ingawale M.V., M. Siddiqui., M.G. Thorat., S.P. Waghmare and C.H. Pawshe (2020) Management of post-partum complete eversion of uterus in graded Murrah buffalo. <i>Buffalo Bulletin</i> 39 (1):125-128.
	ILFC
	National
326	Kadam S.S., N.S. Solanki., M. Arif., L.N. Dashora., S.L. Mundra and B. Upadhyay (2019) Productivity and



	quality of fodder oats (<i>Avena sativa</i> L.) as influenced by sowing time, cutting schedules and nitrogen levels. Indian Journal of Animal Nutrition. 36 (2): 179-186.
327	Chaturvedi K., N.S. Solanki and S.S. Kadam (2020) Effect of varieties and nitrogen levels on quality, nutrient content and its uptake by fodder oat (<i>Avena sativa</i> L.). Forage Research 45 (4):303-307.
TVCC	
National	
328	Suryawanshi R.V., A.H. Ulemale., Y.B. Jadhav., P.B. Chougale., S.D. Lotlikar and A.H. Kawhale (2020). Successful surgical management of rare case of omaso-abomasal obstruction in advance pregnant Holstein Friesian cow. Haryana Veterinarian. 5(SI):119-120.
329	Suryawanshi R.V., Chougale P.B. and Lotlikar S (2019). Surgical management of enterocele - a study of two cows. Intas Polivet. 20 (1): 65-66.
330	Suryawanshi R.V., A.H. Ulemale., A.B. Mali., R.S. Ghadge and Y.B. Jadhav (2019) Therapeutic management of impacted colic-a clinical study of five horses. Intas Polivet. 20: 25-26.
331	Suryawanshi R.V., A.B. Mali and A.H. Ulemale (2019). Therapeutic management of pulmonary abscess in a horse. Intas Polivet. 20: 65-66.
332	Suryawanshi R.V., M.N. Rangnekar., A.B. Mali., Y.B. Jadhav and A.H. Ulemale (2019). Nasogastric intubation in horses - a technical approach in five horses with colic. Intas Polivet. 20: 112-113.
333	Mali A.B., M.B. Amle., N.M. Markandeya and B.L. Kumawat (2019). Comparative efficacy of trans-rectal and trans-abdominal ultrasonography for early diagnosis of pregnancy and embryonic ageing in goats. Indian Journal of Small Ruminants. 25 (2): 171-175.
334	Mali A.B., S.R. Chinchkar., S.U. Gulavane., S.A. Bakshi and H.S. Birade. (2019). Ultrasonographic diagnosis of early pregnancy in buffaloes. Haryana Veterinarian. 58 (SI): 40-42.
335	Swami S.B. and B.R. Patel (2019) Prevalence of haemoprotozoan infection in Gir cows in and around Junagadh, Gujarat. The Indian Journal of Veterinary Science and Biotechnology. 15 (2): 271-277.
336	Agivale S.M., C.L. Badgujar and A.U. Bhikane (2019), Surgical excision of vulval growth in mare: a case report. Journal of Bombay Veterinary College. 25 (1):91-92.
337	Ramteke S.S. and W.A.A. Razzaque (2019) Uterine torsion in bovines: a retrospective study. Haryana Veterinarian. 58: 94-97.
International	
338	Agivale S.M., A.U. Bhikane., C.L. Badgujar and W.A.A. Razzaque (2019) Surgico-therapeutic management of oesophageal obstruction in pregnant Marathwadi buffalo- an unusual case. Buffalo Bulletin 38 (4): 695-699.
339	Rajoriya J.S., J.K. Prasad., S.S. Ramteke., P. Perumal., A.K. De., S.K. Ghosh., S. Bag., A. Raje., M. Singh., A. Kumar and A. Kumaresan (2020) Exogenous cholesterol prevents cryocapacitation-like changes, membrane fluidity, and enhances in vitro fertility in bubaline spermatozoa. Reproduction in Domestic Animals. 55(6):726-736.
Fishery	
National	
340	Belsare S.S. and H.S. Dhaker (2019) Feeding ration and frequency influences growth, feed utilization and body composition of goldfish (<i>Carassius auratus</i>). Indian Journal of Animal Research. 53(1):94-98.
341	Ghatge S.S., S.W. Belsare and S.S. Jadhav (2019) Fish fauna of Kamthikhaury dam in pench national park, Maharashtra. Journal of Indian Fisheries Association. 45 (2): 67-72.
342	Relekar S.S., S.A. Joshi., A.K. Kulkarni., S.B. Gore., P.A. Telvekar and S.S. Bankar (2019) Quality evaluation



	of cutlet prepared from Rohu (<i>Labeo rohita</i>) and Pangasius (<i>Pangasius pangasius</i>) at deep freeze storage. International Journal of Science, Environment and Technology. 8(2):379-387.
343	Kulkarni A.K., S.S. Relekar, S.A. Joshi, S.B. Gore and J.G.K. Pathan (2019) Cryoprotective effect of maltodextrins on frozen storage of bleached Horse Mackerel (<i>Megalapsis cordyla</i>) minced meat. International Journal of Current Microbiology and Applied Sciences. 8 (9):1666-1677.
344	Sonwal M.C., S.R. Somashekara, H.N. Anjanayappa, U. Suryawanshi, J. Kumar, S. Rawat and G. Pandey (2019) Marine crustaceans biodiversity in the trawling grounds off Mangalore Coast, South-West Coast of India. Journal of Experimental Zoology India. 22 (2):1039-1044.
345	Telvekar P.A., A.D. Sonone and M.R. Hadge (2019) Socio-economic status of some fishermen co-operative societies in Bhandara district of Maharashtra. Indian Journal of Natural Resource and Development. 14 (1): 5-10.
346	Gore S.B., S.S. Relekar, A.K. Kulkarni, S.A. Joshi, J.G.K. Pathan, P.A. Telvekar and S.S. Bankar (2019) Quality of traditionally salted and dried fishes of Ratnagiri fish market, Maharashtra. International Journal of Science, Environment and Technology. 8 (3):663-673.
	International
347	Markad A.T., A.T. Landge and B.B. Nayak (2019) Trophic state moselling for shallow freshwater reservoir: a new approach. Environ Monitoring and Assessment. 191:586.
	Dairy Technology
	National
348	Sawale P.D., G.R. Patil, S.A. Hussain, A.K., Singh and R.R.B. Singh (2019) Effect of sterilization treatment on polyphenol content, antioxidant activity and stability of free and encapsulated herb (<i>Terminalia arjuna</i>) added milk drink. Indian Journal of Dairy Sciences. 72 (2):148-154.
	International
349	Sawale P.D., G.R. Patil, S.A. Hussain, A.K., Singh and R.R.B. Singh (2020) Development of free and encapsulated <i>Arjuna</i> herb extract added vanilla chocolate dairy drink by using response surface methodology (RSM) software. Journal of Agriculture and Food Research. 2: 100020. https://doi.org/10.1016/j.jafr.2020.100020
	Dairy Microbiology
	National
350	Jadhav V.P., P.H. Jayashri, S.D. Kalyankar and C.D. Khedkar (2019): Studies on storage stability of probiotic shrikhand obtained from safflower (<i>Carthamus tinctorius</i>)-blended milk. Indian Journal of Dairy Science. 72 (2): 162-166.
	International
351	Lule V.K., S.K. Tomar, P. Chawla, S. Pophaly, S. Kapila and S. Arora (2020) Bioavailability assessment of zinc enriched <i>Lactobacillus biomass</i> in a human colon carcinoma cell line (Caco-2). Food Chemistry. 309:125583. doi.org/10.1016/j.foodchem.2019.125583
	Dairy Engineering
	National
352	Chopde, S.S., Datir, R.P., and Patil, M. R. (2019). Strategies for doubling income of Indian farmers' through dairying. Asian journal of dairy and food research, 38(4):269-272.

**8.9. RESEARCH RECOMMENDATIONS**

1.	Project Title	Studies on utilization of bypass protein and yeast in growing buffalo calves.
	Investigators	Dr. C. R. Peddapalli and Dr. A. D. Deshmukh
	Name of the college	Nagpur Veterinary College, Nagpur.
	Recommendation	It is recommended to supplement bypass protein @ 2.5 percent of dry matter intake for economical rearing of growing buffalo calves.
2.	Project Title	Studies on methane production potential of different feedstuffs and mitigation through feed supplements in buffaloes.
	Investigators	Dr. A. P. Dhok and Dr. A. D. Deshmukh
	Name of the college	Nagpur Veterinary College, Nagpur.
	Recommendation	1. It is recommended to add 3 percent linseed oil or soybean oil in concentrate mixture for significant inhibition of methane emission in buffaloes. 2. It is recommended to add 1 percent linseed oil in concentrate mixture for economical milk production in buffaloes.
3.	Project Title	Effect of supplementing Selenium yeast and Vitamin E on performance of lactating buffaloes.
	Investigators	
	Name of the college	Dr. A. G. Pagdhune and Dr. B. N. Ramteke
	Recommendation	Mumbai Veterinary College, Mumbai. It is recommended to supplement selenium @ 0.3 mg/kg DMI in the form of yeast and vitamin E @ 40 IU/kg DMI in lactating buffaloes for reducing somatic cell count in milk and improving SNF in milk.
4.	Project Title	Effect of supplementation of rumen protected Methionine and Lysine in crossbred calves.
	Investigators	Dr. V. S. Gavade and Dr. G. M. Gadegaonkar
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	It is recommended to supplement rumen protected methionine @ 3 g/ day and rumen protected lysine @ 20 g/day is beneficial for economical rearing of cross-bred calves.
5.	Project Title	Effect of partial replacement of maize with soybean hulls in concentrate mixture of growing goats (<i>Capra hircus</i>).
	Investigators	Dr. A. B. Jadhao and Dr. S. M. Bhalerao
	Name of the college	KNP College of Veterinary Science, Shriwal.
	Recommendation	It is recommended to replace 50% maize grains by soybean hulls (on dry matter basis) in concentrate mixture for economical production of goats.
6.	Project Title	Effect of supplementation of "<i>Moringa oleifera</i>" leaf meal on the performance of growing sheep (<i>Ovis aries</i>).
	Investigators	Dr. M. H. Redekar and Dr. S. M. Bhalerao
	Name of the college	KNP College of Veterinary Science, Shriwal.
	Recommendation	It is recommended to replace 20% cotton seed cake by Moringa oleifera leaf meal (on dry matter basis) in concentrate mixture for economical production of sheep.
7.	Project Title	Supplementation of protease enzyme in broiler diets with different sources of protein.
	Investigators	Dr. D. N. Desai and Prof. Dr. A. S. Ranade
	Name of the college	Mumbai Veterinary College, Mumbai.



	Recommendation	<p>1 It is recommended to use protease enzyme with protease activity of minimum 75,000 PROT/ g @ 200 g/ T in the broiler (corn-soybean) diets for better production performance and higher profit margins.</p> <p>2. It is recommended to use protease enzyme with protease activity of minimum 75,000 PROT/ g @ 200 g/ T in the broiler diets with replacement of soybean extraction protein with sunflower extraction protein at 15% level for better production performance and higher profit margins.</p> <p>3 It is recommended to use protease enzyme with protease activity of minimum 75,000 PROT/ g @ 200 g/ T in the broiler diets with replacement of soybean extraction protein with rapeseed extraction protein at 5% level for comparable production performance and higher profit margins.</p> <p>4 It is recommended to use protease enzyme with protease activity of minimum 75,000 PROT/ g @ 200 g/ T in the broiler diets with 5% reduction in crude protein level for better performance and higher profit margins.</p>
8.	Project Title	Utilization of proteins from shellfish industry processing waste in broiler diets.
	Investigators	Dr. P. E. Avari and Prof. Dr. A. S. Ranade
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	<p>1. It is recommended to use the proteins from shellfish industry processing waste sprayed on de-oiled rice bran at 25% level as part replacement of soybean meal in broiler diets.</p> <p>2. It is recommended to use the proteins from shellfish industry processing waste sprayed on sunflower extraction at 25% level as part replacement of soybean meal in broiler diets with enzymes.</p> <p>3. It is recommended to use the proteins from shellfish industry processing waste sprayed on de-oiled rice bran at 25% level as protein replacement in broiler diets.</p> <p>4. It is recommended to use the proteins from shellfish industry processing waste sprayed on sunflower extraction at 25% level as protein replacement in broiler diets.</p>
9.	Project Title	Effect of dietary supplementation of phospholipids on egg production and egg quality in layers.
	Investigators	Dr. N. V. Khuje and Dr. P. E. Avari
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	<p>1. It is recommended that, supplementation of phospholipids (Lysophosphatidylcholine) @ 750 g/T in the diets of layers is beneficial for better production performance in the last phase of production.</p> <p>2. It is recommended that, supplementation of phospholipids (Lysophosphatidylcholine) @ 1 kg/T in the diets of layers is beneficial in improving egg quality in the last phase of production.</p>
10.	Project Title	Nutrient requirement of kadknath chicken during starter (0-6 week) and finisher phase (7-14 weeks) to optimize the growth performance.
	Investigators	Dr. P.C. Kamble, Dr. P.R. Rathod and Dr. M.M. Kadam
	Name of the college	Nagpur Veterinary College, Nagpur
	Recommendation	It is recommended to provide diet containing ME 2800 kcal/kg, CP 19%, Lysine 0.90% and Methionine 0.40% to the Kadknath birds during starter phase (0-6 week) whereas, ME 2900 kcal/kg, CP 17%, Lysine 0.95% and Methionine 0.45% during



		finisher phase (07-14 week) for its profitable rearing.
11.	Project Title	Effect of feeding various cereal based distillers dried grains with solubles (DDGS) and enzyme supplementation on performance of broiler chickens.
	Investigators	Dr. K.K. Khose and Dr. S. J. Manwar
	Name of the college	Post Graduate Institute of Veterinary and Animal Sciences, Akola.
	Recommendation	It is recommended to supplement corn and rice DDGS with multienzymes up to 15% and sorghum DDGS with multienzymes up to 10% in broiler diet for profitable broiler production. The cost effectiveness should be kept in mind while using different DDGS.
12.	Project Title	Studies on comparative effect of essential oils on performance of broilers.
	Investigators	Dr. A.S. Sampate, Dr. M.G. Nikam, Dr. M.V. Dhumal, Dr. M.D. Kharwadkar, Dr. K.Y. Deshpande, Dr.S.S.Gaikwad
	Name of the college	College of Veterinary and Animal Sciences, Parbhani.
	Recommendation	It is recommended to provide ginger oil @ 25mg/kg and thymol oil @ 50mg/kg feed for economical production of broilers.
13.	Project Title	Effect of combination of different organic acids on performance of broilers as alternative to antibiotic growth promoter.
	Investigators	Dr. A.A.A. Rahman, Dr. M.V. Dhumal, Dr. M.G. Nikam, Dr. P.V. Nandedkar, Dr. S.A. Amrutkar, Dr. V.S. Ingle
	Name of the college	College of Veterinary and Animal Sciences, Parbhani.
	Recommendation	It is recommended to supplement ammonium formate, calcium propionate and sodium citrate alone @ 1 gm/kg of feed for economical production of broilers.
14.	Project Title	Dietary supplementation of L-valine on the performance of broilers
	Investigators	Dr. A.G. Daware, Dr. V.D. Lonkar, Dr. A.S. Ranade
	Name of the college	K. N. P. College of Veterinary Science, Shirwal.
	Recommendation	It is recommended to supplement 0.01% L-valine in pre-starter and starter broiler diet and 0.12 % L-valine in finisher commercial broiler diet for economical production of broilers.
15.	Project Title	Dietary supplementation of combination of inulin and saponin on the performance of laying hens.
	Investigators	Dr. G. D. Yenge, Dr. V.D. Lonkar, Dr. A.S. Ranade
	Name of the college	K. N. P. College of Veterinary Science, Shirwal.
	Recommendation	It is recommended to supplement the combination of 0.1gm of inulin and 0.005 gm of saponin/kg of feed in commercial layer diet for improvement in the gut health, production performance and egg quality with higher net profit.
16.	Project Title	Evaluation of Anti Mullerian Hormone in heifers, normo-ovulatory and anovulatory buffaloes
	Investigators	Dr. P. M. Kekan, Dr. S. D. Ingole, Dr. A. S. Nagvekar, Dr. S. V. Bharucha, Dr. S. D. Kharde
	Name of the college	Mumbai Veterinary College, Mumbai
	Recommendation	It is recommended that the concentration of Anti Mullerian Hormone (AMH) in blood-serum can be useful to predict fertility of Murrah buffaloes and its concentration up to 200 pg/ml blood-serum can be cut-off value to predict the future fertility potential of heifers and young adult Murrah buffaloes.
17.	Project Title	Development of Android Based Mobile Application on Goat Management



		Practices and its Effectiveness for Goat Farmers.
	Investigators	Dr. J.D. Nandeshwar, Dr. S. P. Landge, Dr. V. V. Banthiya, Dr. S. S. Chopde, Dr. A. P. Dhok and Shri. D. V. Patil
	Name of the College	Nagpur Veterinary College, Nagpur.
	Recommendation	The Android based Mobile Application developed by Department of Veterinary and Animal Husbandry Extension Education, Nagpur Veterinary College, Nagpur on Goat Management Practices - "Goat Farming" (Sheli Palan) as ICT tools for the effective dissemination of information among the goat farmers is recommended for use by the goat farmers.
18.	Project Title	Development of Android Based Mobile Application on Desi Chicken Management Practices and its Effectiveness for Poultry Farmers.
	Investigators	Dr. J.A. Khobragade, Dr. V.V. Banthiya, Dr. S.P. Landge, Dr. A.P. Dhok, Dr. M.M. Kadam and Shri. D. V. Patil
	Name of the College	Nagpur Veterinary College, Nagpur.
	Recommendation	Android based Mobile Application developed by Department of Veterinary and Animal Husbandry Extension Education, Nagpur Veterinary College, Nagpur on Desi Chicken Management Practices - "Poultry Farming" (Kukkut Palan) as ICT tools for the effective dissemination of information among the poultry farmers is recommended for use by the Poultry Farmers.
19.	Project Title	Development of 'GoatVision'- An Android based Mobile Application for goat farmers.
	Investigators	Dr. V. V. Sulakhe and Dr. Smita R. Kolhe
	Name of the college	KNP College of Veterinary Science, Shirwal.
	Recommendation	Android based Mobile Application developed by Department of Veterinary and Animal Husbandry Extension Education, KNPCVS, Shirwal on "Goat Vision" as ICT tools for the effective dissemination of information on goat healthcare and nutritional management among the goat farmers is recommended for use by the Goat Farmers.
20.	Project Title	Epidemiological studies on infectious bronchitis in chicken with special reference to molecular characterization and experimental pathogenicity of the isolate.
	Investigators	Dr. V. S. Dhaygude and Dr. S. D. Moregaonkar
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	It is recommended to use nephropathogenic strains of infectious bronchitis virus in IB vaccine for chicken in addition to Massachusetts strain (M/41 or H120) in the regions where disease is endemic.
21.	Project Title	Clinicopathological Studies of Anaemia in Goats.
	Investigators	Dr. S. C. Bhatane, Dr. S. D. Moregaonkar, Dr. G. R. Gangane and Dr. B. W. Narladkar
	Name of the college	College of Veterinary and Animal Sciences, Parbhani.
	Recommendation	It is recommended that the deworming should be carried out in anaemic goats.
22.	Project Title	Genotypic and phenotypic characterization of <i>Listeria monocytogenes</i> from bovine and their environment.
	Investigators	Dr. Shubhangi Warke and Dr. V. C. Ingle
	Name of the college	Nagpur Veterinary College, Nagpur.
	Recommendation	It is recommended to use disinfectant Didocyl dimethyl Ammonium Chloride (DAC)



		to reduce contamination of <i>Listeria monocytogenes</i> at livestock farm.
23.	Project Title	Genetic analysis of <i>Panthera pardus</i> and <i>Panthera tigris</i> by mtDNA PCR.
	Investigators	Dr. Pooja Acharya, Dr. P.A. Tembhurne, Dr. V.C. Ingle, Dr. V.M. Dhoot, Dr. G.R. Bhojane
	Name of the college	Nagpur Veterinary College, Nagpur.
	Recommendation	It is recommended that PCR technique is useful for amplification of cytochrome-b gene of tiger & leopard and its sequencing from scat sample of feces for its differential identification of feline species.
24.	Project Title	Assessment of acaricide resistance in <i>Rhipicephalus microplus</i> of Maharashtra state and novel non-chemical approaches for its control.
	Investigator	Dr. G. P. Bharkad, Dr. H. Y. Palampalle
	Name of college	Mumbai Veterinary College, Mumbai.
	Recommendation	1. It is recommended to stop deltamethrin use completely to avoid the environmental contamination and save unnecessary expenditure on the treatment of <i>Rhipicephalus microplus</i> tick in Marathwada, Western and North Maharashtra. 2. It is recommended to use amitraz alternately with acaricide of any other class to delay the resistance development process in <i>Rhipicephalus microplus</i> tick. 3. It is recommended to limit ivermectin use in moderate to heavy type of <i>Rhipicephalus microplus</i> infested animals only and 1-2 times in a year 4. Deltamethrin, amitraz and ivermectin can be used to control the <i>Rhipicephalus microplus</i> tick of tribal region.
25.	Project Title	Influence of population dynamics of <i>Culicoides</i> spp. (Diptera: Ceratopogonidae) on body movements and milk yield in cattle and buffaloes of Marathwada region (Maharashtra state).
	Investigators	Dr. P.S. Parihar, Dr. B.W. Narladkar, Dr. J.G. Gudewar, Dr. M.S. Vaidya
	Name of the college	College of Veterinary and Animal Sciences, Parbhani.
	Recommendation	It is recommended to use fly proof net shed as an Integrated Pest Management (IPM) system to control pests for improving milk yield in cows and buffaloes.
26.	Project Title	Mitochondrial DNA based molecular detection of <i>Babesia gibsoni</i> in dogs.
	Investigators	Dr. A.A. Betgiri, Dr. K. Kundu, Dr. M.W. Khasnis, Dr. S. Jadhav, Dr. M. Pawade and Dr. D. Shanmugam
	Name of the college	KNP College of Veterinary Science, Shirwal.
	Recommendation	It is recommended that single step PCR with primers targeting mitochondrial cytochrome oxidase C III gene is recommended for quick specific and sensitive diagnosis of acute and chronic <i>Babesia gibsoni</i> infection in dogs.
27.	Project Title	Risk assessment of <i>Salmonella</i> spp. in Chicken Meat Production.
	Investigators	Dr. R.N. Waghmare, Dr. A.M. Paturkar, Dr. R.J. Zende, Dr. V.M. Vaidya
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	It is recommended that the litter at farm level, and defeathering and evisceration in chicken meat production chain are considered to be high risk stages for the occurrence of <i>Salmonella</i> spp.
28.	Project Title	Standardization of multiresidue method for detection of selected organochlorine pesticide residues and its quantification in meat and fish.
	Investigators	
	Name of the college	Dr. Netra Aswar, Dr. A.M. Paturkar, Dr. R.J. Zende, Dr. V. M. Vaidya
	Recommendation	Mumbai Veterinary College, Mumbai.



		It is recommended to use Quick, Easy, Cheap, Effective, Rugged, and Safe (QuEChERS) method for the extraction of organochlorine pesticide residues from meat.
29.	Project Title	Effect of electron beam irradiation on survival of common food pathogens in pork and studies on shelf- life of raw pork at refrigeration temperature.
	Investigators	Dr. R.S Khillare, Dr. A.M. Paturkar, Dr. R.J. Zende and Dr. V.M. Vaidya
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	<ul style="list-style-type: none"> It is recommended to use 3.0 kGy dose (for microbial log reduction in pork salami) of individual selected gram positive bacteria viz. <i>Staphylococcus aureus</i>, <i>Listeria monocytogenes</i>, <i>Bacillus cereus</i> and <i>Bacillus subtilis</i> and gram negative bacteria viz. <i>Klebsiella pneumoniae</i>, <i>Pseudomonas aeruginosa</i> and <i>E. coli</i>. It is recommended to use 1.0 kGy dose of electron beam irradiation to reduce <i>Salmonella</i> Typhimurium and <i>Salmonella</i> Enterica organisms from pork salami. It is recommended to expose raw pork samples to electron beam irradiation at the dose rate of 4.5 kGy for shelf-life extension of upto 18 days at refrigeration storage temperature (0-4°C).
30.	Project Title	Standardization of Flow Through Assay for Sero-Diagnosis of Hydatidosis in Buffaloes.
	Investigators	Dr. Sambhaji Sankpal , Dr. V.M. Vaidya, Dr A M Paturkar, Dr. R. J. Zende, Dr H.Y. Pallampalle
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	The developed Flow Through Assay (FTA) is recommended for the sero-diagnosis of Hydatidosis in buffaloes.
31.	Project Title	Testicular colour Doppler ultrasonography, testicular biometry, serum testosterone levels and seminal attributes in pre and post pubertal Osmanabadi bucks and its Crosses
	Investigators	Dr. U.B. Kumbhar, Dr. S.U. Gulavane, Dr. D.U. Lokhande, Dr. S.D. Ingole, Dr. G. Sachdeva
	Name of the college	Mumbai Veterinary College, Mumbai
	Recommendation	It is recommended that testicular length, body weight, testicular width in pre-pubertal age and scrotal circumference in post-pubertal age can be used as indicator for selection of Osmanabadi bucks for breeding purpose, while the semen parameters should be considered only after 8.5 to 9 months of age.
32.	Project Title	Colour Doppler Ultrasonographic Evaluation of Foeto-Maternal Circulation and assessment of Neonate in normal gestation and threatened abortion in Canines
	Investigators	Dr. S.M. Gaikwad, Dr. S.U. Gulavane, Dr. M.M. Gatne, Dr. S.H. Dalvi, Dr. G. Sachdeva
	Name of the college	Mumbai Veterinary College, Mumbai
	Recommendation	1. It is recommended that in canine colour Doppler ultrasonography during 40 to 50 days gestation End Diastolic Velocity (EDV) below 10.50 cm/sec, and RI above 0.63 of uteroplacental arteries along with Combined Thickness of Uteroplacental Unit (CTUP) more than 1.2 cm and abnormal wave pattern of systolic peak, followed by full diastole, with broadening and progressive flattening of the diastolic upstroke should be considered as indication of threatened abortion and used as a parameter for monitoring these cases.



		<p>2. It is recommended to use Apgar scoring system to identify the severely distressed (Apgar score 0 to 4) and moderately distressed (Apgar score 4 to 11) puppies as they may require special care for survival.</p> <p style="text-align: center;">Apgar Scoring System in canine neonates.</p> <table><tr><th>Parameter</th><th>Score 0</th><th>Score 1</th><th>Score 2</th></tr><tr><td>Mucous Membranes</td><td>Cyanotic, pale</td><td>Pink</td><td>Reddish</td></tr><tr><td>Heart Rate (BPM)</td><td>< 120</td><td>120 – 180</td><td>> 180</td></tr><tr><td>Respiratory Rate (bpm)</td><td>< 15</td><td>15 – 30</td><td>> 30</td></tr><tr><td>Reflex Irritability</td><td>None</td><td>Feeble reaction</td><td>Active reaction</td></tr><tr><td>Mobility</td><td>None</td><td>Hypo-mobility</td><td>Active mobility</td></tr><tr><td>Suckling</td><td>None</td><td>Weak</td><td>Energetic</td></tr><tr><td>Vocalization</td><td>None</td><td>Mild</td><td>Vigorous</td></tr></table> <p>Kittens with a total Apgar score Apgar score 0-4 indicates severely distressed Apgar score 5-9 indicates moderately distressed Apgar score 10-14 indicates healthy</p>	Parameter	Score 0	Score 1	Score 2	Mucous Membranes	Cyanotic, pale	Pink	Reddish	Heart Rate (BPM)	< 120	120 – 180	> 180	Respiratory Rate (bpm)	< 15	15 – 30	> 30	Reflex Irritability	None	Feeble reaction	Active reaction	Mobility	None	Hypo-mobility	Active mobility	Suckling	None	Weak	Energetic	Vocalization	None	Mild	Vigorous
Parameter	Score 0	Score 1	Score 2																															
Mucous Membranes	Cyanotic, pale	Pink	Reddish																															
Heart Rate (BPM)	< 120	120 – 180	> 180																															
Respiratory Rate (bpm)	< 15	15 – 30	> 30																															
Reflex Irritability	None	Feeble reaction	Active reaction																															
Mobility	None	Hypo-mobility	Active mobility																															
Suckling	None	Weak	Energetic																															
Vocalization	None	Mild	Vigorous																															
33.	Project Title	Effect of vaccination on pre and post freezing seminal attributes in Pandharpuri buffalo bulls.																																
	Investigators	Dr. R.R. Shelar, Dr. (Mrs.) S.U. Gulavane, Dr. P.L. Dhande, Dr. M.P. Sawane, Dr. Sachdeva																																
	Name of the college	Mumbai Veterinary College, Mumbai																																
	Recommendation	It is recommended that to avoid semen collection for two weeks post FMD and one weeks post HS-BQ vaccination for recovery of semen quality and production traits at acceptance level in Pandharpuri buffalo breeding bulls.																																
34.	Project Title	Colour Doppler ultrasonographic evaluation of uterine blood flow for assessment of estrus in canine																																
	Investigators	Dr. Priyanka Raikar, Dr. S.M. Gaikwad, Dr. S.U. Gulavane, Dr. U.B. Kumbhar, Dr. D A. Pawalkar, Dr. K.S. Chaudhari																																
	Name of the college	Mumbai Veterinary College, Mumbai																																
	Recommendation	It is recommended to advice mating or AI in bitches when “type C wave form” (systolic peak followed by the diastolic wave continuous with systole and extending throughout the remainder of the cardiac cycle to the next systole) of uterine artery is recorded using colour doppler ultrasonography during estrus for optimum conception.																																
35.	Project Title	Management of Dystocia in Red Eared Slider Turtles (<i>Trachemys scriptaelegans</i>)																																
	Investigators	Dr. Ashika Dhuri, Dr. U.B. Kumbhar, Dr. S.U. Gulavane, Dr. S.M. Gaikwad, Dr. R.J. Chaudhari, Dr. K.S. Chaudhari																																
	Name of the college	Mumbai Veterinary College, Mumbai																																
	Recommendation	It is recommended to use 10% calcium gluconate (1ml/kg I/M) and oxytocin (2IU/kg I/M) to relieve dystocia in Red eared slider turtles when AST, ALT blood levels are																																



		within range and egg shell thickness is below 1.8 cm on ultrasonography.
36.	Project title	Studies on thyroid profile in dogs with special reference to Radioimmunoassay.
	Investigators	Dr. Anand Dadke and C. N. Galdhar.
	Name of the college	Mumbai Veterinary College, Mumbai
	Recommendation	1. The mean serum concentration of Total Thyroxine (TT4 nmol/l), Total triiodothyronine (TT3, nmol/l) and Free thyroxin (fT4, pmol/l) in healthy dogs are 29.67±1.43, 1.03±0.02 and 9.07±0.52 respectively. This established range for thyroid profile of healthy canines can be used as a reference range. 2. Commercially available BRIT manufactured RIA kits designed for human biological samples along with their prescribed procedure can be used for estimation of canine TT3 and TT4, however for estimation of canine fT4 partial modification (one extra wash with wash buffer) in the procedure is recommended.
37.	Project title	Clinico-diagnostic and Therapeutic Management of indigestion in colostrum fed buffaloes.
	Investigators	Dr. A.U. Bhikane, Dr. R.K. Jadhav, Dr. Neelam Kushwah, Dr. S.S. Ghoke, Dr. Anand Mohan
	Name of the college	College of Veterinary and Animal Sciences, Udgir.
	Recommendation	1. Treatment of Buffaloes ailing with colostrum induced indigestion with Inj. DNS @ 3 lit ivs every six hours on first day followed by 3 lit iv twice a day for 4-6 days, Inj. Dexamethasone @ 0.2 mg/kg iv once in severe clinical cases, Inj. Diazepam @ 0.15 mg/kg iv every six hours for 1-2 days in buffaloes with nervous signs, compound preparation of calcium, magnesium and phosphorous @ 300-450 ml slow iv once, Inj. Vitamin B complex @ 10 ml im daily for 5-7 days, Inj. Chlorpheniramine maleate @ 0.25 mg/kg im once a day for 3 days, laxative @ 450 ml PO daily for 3 days, pre and probiotics PO for 6-8 days and oral oxytetracycline @ 2 gm once day for three days is recommended 2. Colostrum feeding to adult buffaloes is unscientific practice and hence steps should be taken towards increasing awareness among farmers about ill effects of colostrum feeding in adult buffaloes.
38.	Project title	Phytopharmacological and therapeutic study of polyherbal anti-diarrhoeal formulations in goats and Therapeutic efficacy of polyherbal antidiarrhoeal formulation in goats.
	Investigators	Dr. S.S. Mehesare, Dr. V.S. Wankhede, Dr. S.P. Waghmare
	Name of the college	Post Graduate Institute of Veterinary and Animal Sciences, Akola.
	Recommendation	A polyherbal antidiarrhoeal tablet containing hydro-ethanolic extract of unripe fruits of <i>Aegle marmelos</i> (140 mg), bark of <i>Dalbergia sissoo</i> (140 mg) and seeds of <i>Holarrhena antidysenterica</i> (140 mg) is recommended at the dose rate of 600 mg/ animal twice a day for 3 days as antidiarrhoeal remedy for treatment of mild diarrhoea in goats or for 5 days along with fluid and supportive therapy for treatment of all types of diarrhea in goats
39.	Project title	Comparative Evaluation of Biphasic Calcium Phosphate as an Osteoconductive and Platelet Rich Fibrin as an Osteoinducer for Osseointegration in repair of long bone fracture with bone loss in Dogs - A Clinical Study.
	Investigators	Dr. Madhura S. Rajhans and Dr. D. U. Lokhande



	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	Platelet rich fibrin clot is recommended alongwith appropriate fixative for osseointegration in repair of Long bone fracture with bone loss in dogs.
40.	Project title	A comparative evaluation of perinealherniorrhaphy by transposition and conventional technique in dog.
	Investigators	Dr. D.U. Lokhande and Dr. Shivangi Pai
	Name of the college	Mumbai Veterinary College, Mumbai.
	Recommendation	The transposition of internal obturator muscle provides better closure of perineal hernias and hence is recommended for repair of perineal hernia in dogs.
41.	Project title	Studies on nanoparticulate chemotherapy for external tumours in dog with special reference to antioxidants.
	Investigators	Dr. M.R. Kate and Dr. S. B. Akhare
	Name of the college	Nagpur Veterinary College, Nagpur.
	Recommendation	Intratumoural administration of iron oxide-doxorubicin nanoparticle at dose rate of 3 mg/kg body wt. is recommended as effective antioxidant therapy for reducing toxic effects of chemotherapy in the cases of skin and soft tissue malignancies of 3 cm size thereby improving the quality of life of patient.
42.	Project title	Management of obstructive urolithiasis and post renal azotemia in dog.
	Investigators	Dr. Ninoska Pereira and Dr. S.V. Upadhye
	Name of the college	Nagpur Veterinary College, Nagpur.
	Recommendation	Peritoneal dialysis is recommended for cases of urolithiasis in cases having serum creatinine above 3 mg/dl postoperatively.
43.	Project title	Clinical use of endoscopy for diagnosis of upper Respiratory tract disorders in horses.
	Investigators	Dr. O.S. Gajarwar, Dr. R.V. Suryawanshi
	Name of the college	KNP College of Veterinary Science, Shirwal.
	Recommendation	Early endoscopic diagnosis of upper respiratory tract abnormalities is a gold standard procedure in young horses to prevent irreparable damage of URT and thereby economical losses.
44.	Project title	Clinical use of ultrasonography in diagnostic affections of eyeball in dog.
	Investigators	Dr. S.S. Ingale, Dr. A.H. Ulemale
	Name of the college	KNP College of Veterinary Science, Shirwal.
	Recommendation	Ultrasonography is a safe and non-invasive method and can be conveniently used to examine the internal structures of the eye for confirmatory diagnosis of ocular abnormalities.
45.	Project title	Clinical efficacy of platelet rich fibrin & stem cell therapy for autologous full thickness grafts in dog.
	Investigators	Dr. N.S. Bajekal, Dr. A.H. Ulemale
	Name of the college	KNP College of Veterinary Science, Shirwal.
	Recommendation	For increased graft acceptance, reduced duration of graft adherence, less inflammation, exudation and scar formation, use of Adipose-derived mesenchymal stem cells (ADMSCs) is recommended in full thickness skin grafting in dogs.
46.	Project title	Clinical efficacy of transdermal fentanyl patches for post operative pain mangement in dogs.



	Investigators	Aparaita Dinesh Anam and Dr M. G. Thorat
	Name of the college	Post Graduate Institute of Veterinary and Animal Sciences, Akola.
	Recommendation	It is recommended to use transdermal fentanyl patches paired with NSAID as multimodal analgesia in dogs undergoing abdominal surgery to prevent substantial post operative pain.



9 EXTENSION

9.1. TRAININGS

Sr. No.	Name of college	Training of Officers	Training of Farmers
1	Mumbai Veterinary College, Mumbai	09	11
2	Nagpur Veterinary College, Nagpur	10	13
3	College of Veterinary & Animal Science, Parbhani	00	08
4	College of Veterinary & Animal Science, Udgir	00	05
5	K.N.P. College of Veterinary & Animal Science, Shirwal	00	12
6	PG Institute of Veterinary & Animal Sciences, Akola	08	09
7	College of Dairy Technology, Warud	00	01
8	College of Dairy Technology, Udgir	00	03
9	College of Fishery Science, Nagpur	00	13
10	College of Fishery Science, Udgir	00	05
	Total	27	80

9.1.1. SHORT TERM TRAINING COURSES ORGANIZED FOR FIELD OFFICERS

Mumbai Veterinary College, Mumbai

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Hands on training on Laparoscopy in small animals	21.06.2019 to 23.06.2019	15	RAJUVAS
2	Modern Animal husbandry practices for doubling farmers income	20.09.2019 to 27.09.2019	20	Department of Agriculture, Cooperative & Farmer Welfare, Ministry of Agriculture & Farmer Welfare, Government of India Krushi Vistar Bhawan , New Delhi-110012
3	One day Hands on training Programme for Human Laparoscopic Surgeons in collaboration with Medtronic India Limited	20.09.2019	12	Medtronic India Limited
4	One day Hands on training Programme for	14.12.2019	08	Medtronic India Limited



	Human Laparoscopic Surgeons in collaboration with Medtronic India Limited			
5	Hands on practices for determination of chemical residues by HPLC, GC and GCMS	17.12.2019 to 19.12.2019	11	Faculties of Karnataka Veterinary and Animal Sciences University, Bidar
6	One day Hands on training Programme for Human Laparoscopic Surgeons in collaboration with Medtronic India Limited	08.02.2020	15	Medtronic India Limited
7	Laparoscopy and endoscopy in small animal practice for LDOs, IVRI, Goa vets, SAUs etc.	12.02.2020 to 14.02.2020	25	ICAR-TEC
8	One day Hands on training Programme for Human Laparoscopic Surgeons in collaboration with Medtronic India Limited	21.02.2020	10	Medtronic India Limited
9	Laparoscopy and endoscopy in small animal practice for Veterinary officers of Gujarat and private practitioners	18.02.2020 to 20.02.2020	25	ICAR-TEC
		Total	141	

Nagpur Veterinary College, Nagpur

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under Vidarbha Marathwada Dairy Development Project (VMDDP)	13.09.2019 to 17.09.2019	32	Vasantrao Naik State Agriculture Extension Management Training Institute, Nagpur (VANAMATI),
2	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	26.11.2019 to 30.11.2019	38	VANAMATI, Nagpur
3	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	03.12.2019 to 07.12.2019	43	VANAMATI, Nagpur
4	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	31.12.2019 to 04.01.2020	31	VANAMATI, Nagpur
5	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	13.01.2020 to 17.01.2020	40	VANAMATI, Nagpur
6	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	20- 24 January, 2020	36	VANAMATI, Nagpur



7	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	27.01.2020 to 31.01.2020	42	VANAMATI, Nagpur
8	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	10.02.2020 to 14.02.2020	35	VANAMATI, Nagpur
9	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	24.02.2020 to 28.02.2020	38	VANAMATI, Nagpur
10	Five Days Training Programmes under Capacity Building Project for ALDO and LSS under VMDDP	03.03.2020 to 07.03.2020	29	VANAMATI, Nagpur
		Total	364	

Post Graduate Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Training Cum Demonstration on Microscopy technics and contrasting methods	03.04.2019	20	M/s. Towa optics (India) Pvt. Ltd, Pune
2	Hand on training Cum Demonstration on Inhalant Anaesthesia in Small animal	24.04.2019	30	M/s. Global Technology Solution LLC, New Delhi
3	Value of vaccination for promotion of animal health and prevention of diseases	29.04.2019	63	Company Sponsored
4	Hand on training Cum Demonstration on Blood Biochemical Auto-Analyzer with advance user interface	02.05.2019	40	M/s MDS Bio Analytics Pvt. Ltd., Nagpur
5	Hand on training Cum Demonstration on Fully Automated cell counter	02.05.2019	40	M/s MDS Bio Analytics Pvt. Ltd., Nagpur
6	Hand on training Cum Demonstration on Colour Doppler Ultrasonography in animals	03.05.2019	35	M/s TRIVITRON Health Care Pvt. Ltd., Chennai
7	Care, Management and Handling of small Laboratory Animals	01.06.2019	32	Paid Workshop
8	Personality Development Training Programmes	30.01.2020 to 31.01.2020	30	ICAR, New Delhi
		Total	290	



TRAININGS



Training Programme on 'Milk Processing & Value Addition' for Entrepreneurs' at COVAS, Parbhani



Dr. R. R. Mugale, Associate Dean COVAS, Udgir guiding the participants Entrepreneurship Development training



Dr. R. R. Mugale, Associate Dean COVAS, Udgir guiding the participants Entrepreneurship Development training



Dr. V. D. Aher, Associate Dean, PGIVAS, Akola addressing the trainees during training programme on "Animal Health Care"



Dr. A. P. Somkuwar, Associate Dean along with the trainees of "Scientific Dairy Farming" at NVC, nagpur



Distribution of certificates to trainees by Dr. M. V. Dhumal, Associate Dean during training on "Modern Goat Farming" at KNPCVS, Shirwal



Release of Marathi booklet by dignitaries during training programme on 'Dairy Business Management and Milk Processing Technology' at CDT, Udgir



Dr. A.S. Ranade, Associate Dean delivering lecture during Model Training course at MVC, Mumbai

**9.1.2. SHORT TERM TRAINING COURSES ORGANIZED FOR FARMERS****Mumbai Veterinary College, Mumbai**

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Scientific Goat Farming	19.06.2019 to 21.06.2019	21	Paid Training
2	Scientific Dairy Farming	04.07.2019 to 06.07.2019	12	Paid Training
3	Scientific Goat Farming	24.09.2019 to 26.09.2019	31	Paid Training
4	Precision Feeding of Dairy Animals	06.11.2019 to 08.11.2019	07	Paid Training
5	Technology and Machinery Demonstration Training	30.11.2019	80	ICAR
6	Hygienic Chicken, Sheep/ Goat Meat Production	23.12.2019	45	ICAR
7	Scientific Goat Farming	22.01.2020 to 24.01.2020	31	Paid
8	Hygienic Meat Production and Processing	29.01.2020 to 31.01.2020	02	MVC, Mumbai
9	Scientific Dairy Farming	27.02.2020 to 29.02.2020	09	Paid
10	Milk Processing and Value Addition	04.03.2020 to 06.03.2020	14	MVC, Mumbai
11	Hygienic Chicken, Sheep/ Goat Meat Production	12.03.2020	65	ICAR
		Total	317	

Nagpur Veterinary College, Nagpur

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Commercial Poultry Farming	01.04.2019 to 05.04.2019	80	Paid training
2	Commercial Poultry Farming	11.06.2019 to 15.06.2019	72	Paid training
3	Commercial Poultry Farming	27.08.2019 to 31.08.2019	63	Paid training
4	Scientific Goat Farming Training	15.10.2019 to 19.10.2019	63	Paid training
5	Milk Processing and Value Addition	22.10.2019 to 24.10.2019	13	Paid training



6	Commercial Poultry Farming	04.11.2019 to 08.11.2019	41	Paid training
7	Scientific Dairy Farming Training	26.11.2019 to 30.11.2019	31	ATMA, Chandrapur
8	Scientific Goat Farming Training	09.12.2019 to 13.12.2019	46	ATMA, Wardha
9	Commercial Poultry Farming	29.01.2020 to 02.02.2020	91	Paid training
10	Scientific Dairy Farming Training	03.02.2020 to 07.02.2020	20	Paid training
11	Scientific Goat Farming Training	11.02.2020 to 15.02.2020	32	Paid training
12	Scientific Goat Farming	14.02.2020 to 16.02.2020	27	ICAR
13	Scientific Goat Farming	25.02.2020 to 27.02.2020	27	ICAR
		Total	606	

College of Veterinary & Animal Sciences, Parbhani

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Commercial Poultry Farming	29.07.2019 to 02.08.2019	23	Paid Training
2	Modern Dairy Farming	19.08.2019 to 23.08.2019	28	Paid Training
3	Commercial Goat Farming	05.08.2019 to 09.08.2019	42	Paid Training
4	Diseases of Pet Animals and their Management	28.08.2019 to 29.08.2019	19	Paid Training
5	Milk processing and value addition	19.09.2019 to 21.09.2019	13	Paid Training
6	Scientific Goat Farming	24.09.2019 to 26.09.2019	22	Paid Training
7	Scientific Dairy Management	19.09.2019 to 21.09.2019	09	Paid Training
8	Deshi Govansh Samvardhan	23.02.2020 to 25.02.2020	20	COVAS, Parbhani
		Total	166	

**COVAS, Udgir**

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Profitable goat farming	29.05.2019 to 31.05.2019	16	Paid Training
2	Fodder production & management	29.06.2019	25	Paid Training
3	Profitable dairy farming	16.09.2019 to 20.09.2019	13	Paid Training
4	Scientific goat farming	11.02.2020 to 13.02.2020	30	SDC, ICAR
5	Scientific Goat Farming	12.03.2020 to 14.03.2020	30	ICAR
		Total	114	

KNP College of Veterinary Sciences, Shirwal

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Modern Dairy Farming	20.08.2019 to 22.08.2019	09	Paid Training
2	Poultry Farming	17.12.2019 to 21.12.2019	41	Paid Training
3	Milk & Milk by products	17.12.2019 to 21.12.2019	18	Paid Training
4	Modern Goat Farming	18.12.2019 to 20.12.2019	17	Paid Training
5	Modern Goat Farming	22.01.2020 to 24.01.2020	38	KNPCVS, Shirwal
6	Modern Dairy Farming	21.01.2020 to 23.01.2020	46	Paid Training
7	Modern Goat Farming	14.02.2020 to 16.02.2020	34	ICAR- Under Skill Development Cell
8	Milk and Milk byproducts	17.02.2020 to 18.02.2020	19	ICAR- Under Skill Development Cell
9	Modern dairy farm management techniques	24.02.2020 to 26.02.2020	30	KNPCVS, Shirwal
10	Pig Production and Management	25.02.2020 to 27.02.2020	19	Paid Training
11	Milk and Milk Byproducts	25.02.2020 to 27.02.2020	21	ICAR- Under Skill Development Cell



12	Modern Goat Farming	27.02.2020 to 29.02.2020	29	Paid Training -
		Total	321	

Post Graduate Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Commercial Goat Farming	22.04.2019 to 26.04.2019	34	Paid Training
2	Commercial Poultry Farming	16.07.2019 to 20.07.2019	48	Paid Training
3	Advanced Goat Farming Business	26.08.2019 to 31.08.2019	17	Paid Training
4	Animal Health Care	16.09.2019 to 20.09.2019	23	Paid Training
5	Commercial Goat Farming	23.09.2019 to 28.09.2019	27	Paid Training
6	Commercial poultry farming	06.09.2019 to 10.09.2019	61	Paid Training
7	Commercial goat farming	20.01.2020 to 25.01.2020	43	Paid training
8	Scientific Dairy farming	25.02.2020 to 27.02.2020	46	ICAR
9	Commercial Goat Farming	05.03.2020 to 07.03.2020	46	ICAR
		Total	345	

College of Dairy Technology, Warud

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Dairy business and processing	04.03.2020 to 06.03.2020	30	ICAR
		Total	30	

**College of Dairy Technology, Udgir**

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Dairy Business Management and Dairy Processing Technology	05.07.2019 to 06.07.2019	30	Centre for Advanced Research and Development, Nanded
2	Milk Collection and Dairy Product Manufacturing Technology	04.03.2020	100	ATMA, Latur
3	Modern Dairy Farm Management and Milk Processing Technology	11.03.2020 to 13.03.2020	29	Indian Council of Agricultural Research, New Delhi
		Total	159	

College of Fishery Science, Nagpur

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Fish Feed Production	22-25 May, 2019	41	Paid training
2	Ornamental Fish rearing & Marketing Management	11.06.2019 to 13.06.2019	27	STRC, Gadchiroli
3	Freshwater fish culture	29.07.2019 to 02.08.2019	28	Paid training
4	IMC breeding & seed production	01.08.2019 to 31.08.2019	15	Paid training
5	Culture of diversified cultivable fish species	03.09.2019 to 07.09.2019	26	Paid training
6	Freshwater fish culture	18.11.2019 to 22.11.2019	25	MPEDA, Panvel
7	Aquaculture of diversified fish species	11.12.2019 to 13.12.2019	25	MPEDA, Panvel
8	Freshwater fish culture	20.12.2019 to 22.12.2019	26	STRC, GU Gadchiroli
9	Scientific Aquafarming	27.02.2020 to 29.02.2020	24	KVK, Kalmeshwar
10	Intensive Fish Culture in Ponds & Tanks	01.03.2020 to 05.03.2020	31	Paid training
11	Freshwater Fish Culture	11-13 March, 2020	20	DST, New Delhi
12	Freshwater Fish Culture	11.03.2020 to 13.03.2020	20	DST, New Delhi
13	Scientific Aquaculture	12.03.2020 to 14.03.2020	38	ICAR, New Delhi
		Total	346	

**College of Fishery Science, Udgir**

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Value Added Fish Products	04.06.2019	25	State Fisheries Department, Beed
2	Value Added Fish Products	10.06.2019	20	State Fisheries Department, Osmanabad
3	Culture based fisheries in Small reservoir	13.09.2020 to 14.09.2020	25	State Fisheries Department, Latur
4	Fish culture in farm pond	28.02.2020 to 29.02.2020	25	Agriculture Technology Management Agency
5	Scientific Fish farming	05.03.2020 to 07.03.2020	46	ICAR plan scheme – under Sub Component SC-SP
		Total	141	

9.2. WORKSHOPS/SEMINARS**9.2.1. WORKSHOP/ SEMINARS ORGANIZED FOR FIELD OFFICERS****Mumbai Veterinary College, Mumbai**

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Laparoscopy and endoscopy in small animal practice for Veterinary officers of Gujarat and private practitioners	18.02.2020 to 20.02.2020	25	ICAR-TEC, Pune
		Total	25	

Nagpur Veterinary College, Nagpur

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	One Day Workshop on “Future Challenges in Dairy Genomics, Bioinformatics and Nutrition for Strengthening Dairy Entrepreneurship in collaboration with NDDDB held at Nagpur Veterinary College, Nagpur	07.06.2019	30	NDDDB
2	8th IVEF National Conference on “Beyond information transfer – Revitalizing Livestock Extension for sustainability and farmers	11.07.2019 to 13.07.2019	200	NABARD, Indian Veterinary Extension Forum (IVEF), Nagpur



	prosperity"			Veterinary College and MAFSU, Nagpur
3	State Level One Day Workshop cum Group Discussion on "Scientific Goshala Management"	28.07.2019	70	Nagpur Veterinary College, Nagpur, Parbhani Veterinary College, Parbhani and MAFSU, Nagpur
4	One Day Training on "Urkund Plagiarism Checking System" organized by University Library, MAFSU, Nagpur	29.07.2019	45	Nagpur Veterinary College, Nagpur
5	Orientation cum training program on CeRA/Jgate and Demonstration of E-resources	16.11.2019	45	Nagpur Veterinary College, Nagpur
6	Theoretical and practical school on necropsy and sampling in Newcastle Disease	24.02.2020 to 25.02.2020	40	Hipra India Pvt. Ltd. Viman Nagar, Pune
		Total	430	

College of Veterinary & Animal Sciences, Parbhani

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Importance of Goat milk in human health: Production to marketing	03.10.2019	30	COVAS, Parbhani
2	National Animal Disease Control Programme (NADCP)	13.11.2019	76	COVAS, Parbhani
		Total	106	

College of Veterinary & Animal Sciences, Udgir

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Value of Vaccination	26.04.2019	89	Different Pharma Companies
2	Vaccination Strategies in Livestock and Pet animals at Latur	27.04.2019	75	Virbac pharma
3	Management of repeat breeding syndrome for augmenting the fertility in dairy animal	11.06.2019	100	Private Agencies
4	Veterinary Laboratory Diagnosis	30.07.2019	30	AH Department, Osmanabad
5	One day Technical seminar for UG, PG, Teaching Faculty and field veterinarians on "Challenges and opportunity in Veterinary Practice"	12.08.2019	79	Private Pharma Companies
		Total	373	

**K.N.P. College of Veterinary Science, Shirwal**

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Biosecurity and Prevention of Viral diseases of poultry	16.04.2019	16	Paid Workshop
2	Workshop on "Rabies Awareness"	29.04.2019	55	KNPCVS, Shirwal
3	Recent trends in animal health and milk production.	25.10.2019	350	Warana Sahakari Dudh Utpadhak Sangh, Kolhapur
4	Target 150 days for profitable dairy farming.	07.11.2019	102	Pvt. Pharmacitital campanies
5	Seminar on "Successful Veterinarian for Society and Profession through Potential Achievements of Distinguished Credentials"	09.03.2020	64	KNPCVS, Shirwal
		Total	587	

Post Graduate Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Title of training	Date	No. of Trainees	Sponsoring Agency
1	Seminar on "Value of Vaccination for Promotion of Animal Health and Prevention of Diseases'	29.04.2019	20	M/s VIRBAC Animal Health Pvt. Ltd.
2	Fracture Management in Large Animals	18.09.2019 to 19.09.2019	35	In collaboration with ICAR-IVRI, Pune
3	National symposium on "Paradigm Transformation of Technological Advancement in Veterinary Sciences: National Perspective"	26.11.2019 to 27.11.2019	206	Sponserhip and Registration
		Total	261	

**9.2.2. WORKSHOP/ SEMINARS ORGANIZED FOR FARMERS****Mumbai Veterinary College, Mumbai**

Sr. No.	Title	Date	No. of Participants	Sponsoring Agency
1	World Milk Day	01.06.2019	42	MVC, Mumbai
2	National Milk Day (Milk Adulteration)	26.11.2019	500	MVC, Mumbai
3	Clean Milk Production	03.12.2019	50	MVC Mumbai
4	One Day Zoonoses Awareness Campaign at Argaon, Lanja, District -Ratnagiri	21.12.2019	41	ICAR Project 'OPZD' under Scheduled Caste Sub Plan (SCSP)
5	One day awareness campaign on 'Personal Hygiene' at Kasarputale, Ta- Radhanagari, Dist.- Kolhapur	08.02.2020	57	ICAR project 'Outreach Program on Zoonotic Diseases' under SCSP component
6	Workshop on "Scientific Goat Farming" at Kumdal Taluka- Wada, Dist- Palghar	05.02.2020 to 06.02.2020	210	ICAR, New Delhi under tribal sub plan (Scheduled Tribe Component)
7	Workshop on "Scientific Goat Farming" at Tuse (Dodepada) Taluka- Wada, Dist- Palghar	08.02.2020 to 09.02.2020	110	ICAR, New Delhi under tribal sub plan (Scheduled Tribe Component)
8	Workshop on "Scientific Goat Farming" at Varasale-Charanvadi Taluka- Wada, Dist- Palghar	13.02.2020	105	ICAR, New Delhi under tribal sub plan (Scheduled Tribe Component)
9	Workshop on "Scientific Goat Farming" at Gavitpada Taluka- Wada, Dist- Palghar	15.02.2020	65	ICAR, New Delhi under tribal sub plan (Scheduled Tribe Component)
10	Eight days Workshop on "Scientific Goat Farming" at ILFC, Goregon and Exposure visit	02.03.2020 to 09.03.2020	20	ICAR, New Delhi under tribal sub plan (Scheduled Tribe Component)
11	Workshop on "Scientific feeding of Goats"	03.03.2020 to 05.03.2020	24	ICAR, Agricultural Education Division, Plan Scheme-Strengthening and Development of Higher Agricultural Education Sub-Component: Scheduled Caste- Sub Plan
12	Workshop on "Scientific feeding of Goats"	12.03.2020 to 14.03.2020	21	



13	Workshop on “Mestrual Hygiene and Women Rights”	25.02.2020	126	MVC, Mumbai
		26.02.2020	35	MVC, Mumbai
		27.02.2020	46	MVC, Mumbai
		28.02.2020	25	MVC, Mumbai
		01.03.2020	57	MVC, Mumbai
		02.03.2020	37	MVC, Mumbai

Nagpur Veterinary College, Nagpur

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	State Level One Day Workshop cum Group Discussion on “Scientific Goshala Management” organized by Department of Veterinary and Animal Husbandry Extension Education held at N.V.C., Nagpur	28.07.2019	170	Nagpur Veterinary College, Nagpur, Parbhani Veterinary College, Parbhani and MAFSU, Nagpur
2	Clean Milk Production at Patnasaongi	03.12.2019	30	Nagpur Veterinary College, Nagpur
3	Clean Milk Production at Borgaon	03.12.2019	15	Nagpur Veterinary College, Nagpur

College of Veterinary & Animal Science, Parbhani

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	Importance of Goat milk in human health: Production to marketing	03.10.2019	250	COVAS, Parbhani

College of Veterinary & Animal Science, Udgir

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	Value of Vaccination	26.04.2019	25	COVAS Udgir
2	Udder Health Management	01.06.2019	75	MSD Animal Health Pvt Ltd
3	Health Management of Livestock	02.12.2019	100	COVAS, Udgir
4	Health Management of Livestock	02.12.2019	100	COVAS, Udgir
5	Clean and safe milk production	03.12.2019	25	COVAS, Udgir
6	Pashupalak Melava on the Occasion of University Foundation day and Clean Milk Day	03.12.2019	50	COVAS, Udgir
7	Pashukalyan Pandharwada	25.01.2020	20	COVAS, Udgir

**K.N.P. College of Veterinary Science, Shirwal**

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	One Day Margdarshan Shibir for SHG women on Pashusavardhan	25.09.2019	50	Godrej Pvt. Ltd
2	One Day Margdarshan Shibir for SHG women on Pashusavardhan	26.09.2019	70	Godrej Pvt. Ltd
3	One Day Margdarshan Shibir on "Clean Milk production"	03.12.2019	36	University Fund
4	Rabies awareness week (as rabies awareness campaign.)	27.09.2019 to 03.10.2019	442 pet owners	Private Pharma Companies
5	One Day workshop on "Modern Dairy Farming"	20.11.2019	125	Godrej Pvt. Ltd

PG Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	Dog health care and Management	21.09.2019	40	M/s VIRBAC Animal Health Pvt. Ltd.
2	Andi utpadanasathi kukkut palan	09.10.2019	40	PGIVAS, Akola
3	Commercial cow and buffalo farming	10.02.2020	75	ATMA, Akola
4	Commercial cow and Buffalo Farming	12.02.2020	75	ATMA, Akola
5	Entrepreneurship Awareness camp for farmers and rural youth	20.02.2020	35	ICAR, New Delhi
6	Commercial goat farming	04.03.2020	78	ATMA, Akola
7	Seminar on "Role of Animal Husbandry sector in Women Empowerment"	07.03.2020	35	ICAR, New Delhi

College of Dairy Technology, Warud

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	Value Added Dairy Products	17.08.2019	200	ATMA, Yavatmal
2	Preparation of Dairy Products at Cottage level	26.11.2019	45	CDT, Warud
3	Preparation of Dairy Products at Cottage level	26.11.2019	34	CDT, Warud
4	Milk Producers Meet	02.12.2020	64	CDT, Warud

**College of Dairy Technology, Udgir**

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	One Day Workshop on Safe Milk Production and Milk Product Manufacturing Technology	03.12.2019	20	MAFSU, Nagpur

College of Fishery Science, Nagpur

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	Freshwater Fish Culture, at Kurkheda, Dist. Gadchiroli	17.11.2019	37	STRC-GUG, Gadchiroli
2	Freshwater Fish Culture at Jambhali, Tal. Korchi, Dist. Gadchiroli	20.12.2019	41	STRC-GUG, Gadchiroli
3	Freshwater Fish Culture at Italcheru, Tal. Aheri, Dist. Gadchiroli	06.01.2020	25	STRC-GUG, Gadchiroli
4	Freshwater Fish Culture at Rajaram, Tal. Aheri, Dist. Gadchiroli	08.03.2020	25	STRC-GUG, Gadchiroli

College of Fishery Science, Udgir

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
1	Farmer Scientist Meet was organized on the occasion of National Fish Farmers Day	10.07.2019	20 farmers	COFS, Udgir



9.3. ACTIVITIES IN ADOPTED VILLAGE

The Following activities are conducted in the adopted villages for latest technologies for the farmers

1. Guidance through technical trainings.
2. Animal Health Camps
3. Ambulatory clinical services
4. Study tour of farmers to college
5. Capacity building for farmers
6. Demonstrations, group discussions on relevant technologies
7. Routine farm based extension activities
8. Special developmental programmes to be implemented for the farming community

Sr. No.	Name of college	Name of Adopted Village
1	Mumbai Veterinary College, Mumbai	Arivali, Tq. Panvel, Dist- Raigad
2	Nagpur Veterinary College, Nagpur	Borgaon, Tq. & Dist. Nagpur
3	College of Veterinary & Animal Science, Parbhani	Sayala, Tal. & Dist. Parbhani
4	College of Veterinary & Animal Science, Udgir	Kodali and Dongershelki, Tq. Udgir Dist. Latur
5	K.N.P. College of Veterinary Science, Shirwal	Jawale, Tq. Khandala, Dist. Satara Bhongawali, Tq. Bhor, Dist. Pune
6	Post Graduate Institute of Veterinary & Animal Sciences, Akola	Kharap, Tq. & Dist: Akola
7	College of Dairy Technology, Warud	Kopra, Tq. Pusad Dist. Yavatmal Borgadi, Tq. Pusad, Dist. Yavatmal
8	College of Dairy Technology, Udgir	Ghonshi, Tq-Udgir, District-Latur Pimpri, Tq-Udgir, District-Latur
9	College of Fishery Science, Nagpur	Pethkaldongari, Tq. & Dist. Nagpur
10	College of Fishery Science, Udgir	Didgras, Tq. Udgir Dist. Latur

9.4. HOSPITAL ACTIVITIES/ AMBULATORY CLINIC/ ANIMAL HEALTH CAMPS

Mumbai Veterinary College, Mumbai

Sr. No.	Section	Hospital	Ambulatory Clinic	Animal Health Camps (26)	Total
a	Medicine	4915	-	163	5078
b	Surgery	13248	-	245	13493
c	Gynaecology	597	-	142	739
d	Artificial Insemination	0	-	0	0
e	Vaccination	800	-	2238	3038
f	Deworming	1000	-	205	1205
g	Spraying	4177	-	318	4495
	Total	24737	-	3311	28048

**Nagpur Veterinary College, Nagpur**

Sr. No.	Section	Hospital	Ambulatory Clinic	Animal Health Camps (08)	Total
a	Medicine	22060	160	1378	23598
b	Surgery	6303	78	65	6446
c	Gynaecology	3153	56	390	3599
d	Artificial Insemination	16	00	00	16
e	Vaccination	3623	00	240	3863
f	Deworming	1200	24	640	1864
g	Spraying	00	600	920	1520
	Total	36,355	918	3633	40,906

College of Veterinary & Animal Science, Parbhani

Sr. No.	Section	Hospital	Ambulatory Clinic	Animal Health Camps (26)	Total
a	Medicine	2781	914	1361	5056
b	Surgery	1867	123	139	2129
c	Gynaecology	520	296	399	1215
d	Artificial Insemination	30	78	44	152
e	Vaccination	46	23	1340	1409
f	Deworming	72	58	0	130
g	Spraying	0	0	0	0
	Total	5316	1492	3283	10091

College of Veterinary & Animal Science, Udgir

Sr. No.	Section	Hospital	Ambulatory Clinic	Animal Health Camps (31)	Total
a	Medicine	4915	567	1296	6778
b	Surgery	1524	74	149	1747
c	Gynaecology	597	360	747	1704
d	Artificial Insemination	41	--	--	41
e	Vaccination	--	1	3899	3900
f	Deworming	--	78	3385	3463
g	Spraying	--	35	7340	7375
	Total	7077	1115	16816	25008

**K.N.P. College of Veterinary Science, Shirwal**

Sr. No.	Section	Hospital	Ambulatory Clinic	Animal Health Camps (23)	Total
a	Medicine	2731	385	858	3974
b	Surgery	1296	126	29	1451
c	Gynaecology	1151	186	541	1878
d	Artificial Insemination	119	00	-	119
e	Vaccination	85	00	14252	14337
f	Deworming	00	00	00	00
g	Spraying	00	00	00	00
	Total	5382	697	15680	21759

PG Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Section	Hospital	Ambulatory Clinic	Animal Health Camps (10)	Total
a	Medicine	4052	120	292	4464
b	Surgery	1639	12	42	1693
c	Gynaecology	365	24	69	458
d	Artificial Insemination	-	-	-	-
e	Vaccination	102	300	1222	1624
f	Deworming	244	210	298	752
g	Spraying	22	76	126	224
	Total	6424	742	2049	9215

Wildlife Research and Training Centre, Gorewada, Nagpur

The Wildlife Research and Training Centre is providing various services to the Gorewada Rescue Centre regularly. Wild animal rescued by the forest department are presented to the Wildlife Research and Training Centre for treatment regularly.

Sr. No.	Particulars	Total
1.	Treatment	94
2.	Haematological	14
3.	Serum Biochemistry	8
4.	Fecal sample examination	231
5.	Hormonal assay	2
6.	DNA isolation	3
7.	Amplicon analysis	1
8.	Miscellaneous samples	59
9.	Postmortem	87



ANIMAL HEALTH CAMPS



Prof. Dr. A. S. Ranade, Associate Dean,
MVC, Mumbai vaccinating the dog



Expert performing surgery during camp
organized by COVAS, Udgir



Equine gelding during camp by MVC, Mumbai



FMD Vaccination Camp and Animal Health Camp
by COVAS, Parbhani



Gynaecological examination of animal during camp
organized by PGIVAS, Akola



Antirabies vaccination camp at KNPCVS, Shirwal



View of animal health camp organized by COVAS, Udgir



Dr. V. D. Aher, Associate Dean, PGIVAS, Akola
Vaccinating dog during camp



9.5. DEMONSTRATIONS ORGANIZED FOR FARMERS

Various types of demonstrations were given to farmers during training programmes, visits of farmers to institutes and also during scientists visit to farms or adopted villages or as per demand of farmers all around during the year. Demonstrations like Silage, Azolla cultivation, Preparation of concentrate mixture and Urea treatment of poor quality roughages, parasitic control, Brooding management of broiler chicks, Incubation and Hatchery management, Milk Processing & Value addition, Hydroponics; Vermicompost, Tagging, Milk Adulteration Test, CMT Test, Cow Milk, Cow Urine and Cow Dung Cake Processing & Packaging, Quality Control of Egg and Egg Products, Clean Milk Production & Adulteration detection, balanced feed preparation in poultry, DHN6 Cultivation, Demonstration on deworming and spraying, Cultivation and management of various fodder varieties, Loose housing system, Goat farming farm practices and selection of goat, Age Determination, Osmanabadi Breed Identification, Manufacturing of dairy products at Cottage Level, Paneer Making Technology, Freshwater Fish Culture, Preparation of value added fish product, Operation FRP, carp hatchery etc. were given to farmers throughout the year.

Sr. No.	Name of College	No. of Demonstrations	No. of Participants
1	Mumbai Veterinary College, Mumbai	16	6272
2	Nagpur Veterinary College, Nagpur	77	2,865
3	College of Veterinary & Animal Sciences, Parbhani	48	7,400
4	College of Veterinary & Animal Sciences, Udgir	56	3144
5	KNP College of Veterinary Sciences, Shirwal	54	2299
6	Post Graduate Institute of Veterinary & Animal Sciences, Akola	18	415
7	Dairy Technology College, Warud	02	106
8	College of Dairy Technology, Udgir	05	186
9	College of Fishery Sciences, Nagpur	17	297
10	College of Fishery Sciences, Udgir	05	110
	Total	298	23,094



DEMONSTRATIONS



Demonstration of urea-jaggery treatment on low quality roughages



Demonstration of tick eradication



Demonstration on stocking of fish seed



Demonstration on equipments in poultry management



Demonstration regarding selection of animals



Demonstration of Post-mortem examination of poultry



Demonstraion on preparation of milk by products



Demonstration on preparation of value added fish products



9.6. FARMERS SCIENTISTS VISIT

Farmers regularly visited the various institutes of MAFSU individually and in groups to acquire the information and technical knowledge of various animal husbandry activities including that of value added animal products, poultry and fisheries. Staff members visited various places to guide the farmers, for training for giving demonstrations at field level.

Sr. No.	Name of college	No. of Farmers visited to institute	No. of Field visit of staff
1	Mumbai Veterinary College, Mumbai	1454	22
2	Nagpur Veterinary College, Nagpur	2491	30
3	College of Veterinary & Animal Science, Parbhani	14	26
4	College of Veterinary & Animal Science, Udgir	1138	36
5	K.N.P. College of Veterinary Sciences, Shirwal	4102	48
6	Post Graduate Institute of Veterinary & Animal Sciences, Akola	640	28
7	College of Dairy Technology, Warud	25	08
8	College of Dairy Technology, Udgir	47	22
9	College of Fishery Science, Nagpur	734	40
10	College of Fishery Science, Udgir	245	10
	Total	10,890	270

9.7. EXHIBITIONS

Sr. No.	Name of college	Participation in exhibition
1	Mumbai Veterinary College, Mumbai	02
2	Nagpur Veterinary College, Nagpur	09
3	College of Veterinary & Animal Science, Parbhani	04
4	College of Veterinary & Animal Science, Udgir	07
5	K.N.P. College of Veterinary Science, Shirwal	05
6	P G Institute of Veterinary & Animal Sciences, Akola	02
7	College of Dairy Technology, Warud	03
8	College of Dairy Technology, Udgir	05
9	College of Fishery Science, Nagpur	02
10	College of Fishery Science, Udgir	02
	Total	41

**Mumbai Veterinary College, Mumbai**

Sr. No.	Title	Place	Date	Organized / Participated
1	Dangi breed Show	Igatpuri, Dist. Nashik	14.02.2020	Participated
2	Khillar Cattle Show	Pusegaon, Dist. Satara	30.12.2019	Participated

Nagpur Veterinary College. Nagpur

Sr. No.	Title	Place	Date	Organized / Participated
1	Animal Science Exhibition on Dhammachakra Pravartan Din at Deekshabhoomi, Nagpur	Nagpur	07.10.2019 to 08.10.2019	Participated
2	Agrovision – 2019 Exhibition	Reshimbaugh Ground, Nagpur	22.11.2019 to 25.11.2019	Participated
3	Canifest – 2019 Dog Show	Nagpur	23.11.2019 to 24.11.2019	Organized
4	Gramayan Seva Exhibition	Nagpur	11.01.2020 to 13.01.2020	Participated
5	Animal Exhibition District Level	Talegaon (Dashasar) Tal. Dhamangaon Dist.- Amaravati	16.01.2020	Participated
6	Gaolao Cattle Exhibition	Kharangana, Taluka-Arvi,	17.01.2020	Participated
7	Livestock / Cattle Exhibition	Nandori, Taluka - Bhadravati, District - Chandrapur	20.01.2020	Participated
8	Poultry Farming	Veltur, Kuhl	04.02.2020	Participated
9	Dairy Animal Exhibition	Deoli, Wardha	13.02.2020	Participated

College of Veterinary and Animal Science, Parbhani

Sr. No.	Title	Place	Date	Organized / Participated
1	'Animal Expo' by Parbhani Mahila Bachat Ghat	Parbhani, Tal. & Dist. Parbhani	13.09.19	Participated
2	Malegaon Fair: Animal Exhibition	Malegaon, Nanded	25.12.19	Participated
3	Animal Expo	Parli, Parli, Beed	21.02.20	Participated
4	Animal Exhibition & Judging Competition	Jintoor, Parbhani	18.02.20	Participated

**College of Veterinary and Animal Science, Udgir**

Sr. No.	Title	Place	Date	Organized / Participated
1	Agrovision Nagpur	Nagpur	22 to 25.11.19	Participated
2	Livestock show Livestock exhibition (Stall) at Jalkot	Jalkot, Tal. Jalkot Dist. Latur	12.12.2019	Participated
3	Livestock exhibition	Jalkot Tah. Jalkot Dist. Latur	12.12.2019	Organized
4	Livestock show Livestock exhibition (Stall) at Jalkot	Malegaon Tah. Loha Dist. Latur	25.12.2019	Participated
5	Livestock exhibition	Malegaon Tah. Loha Dist. Latur	25.12.2019	Organized
6	Livestock show Livestock exhibition (Stall) at Jalkot	Udgir Tah. Udgir Dist. Latur	12.01.2020	Participated
7	Livestock exhibition	Udgir Tah. Udgir Dist. Latur	12.01.2020	Organized

K. N. P. College of Veterinary Sciences, Shirwal

Sr. No.	Title	Place	Date	Organized / Participated
1	KISAN Exhibition	Moshi, Pune	11 to 15.12.2019	Participated
2	Malegaon Cattle Exhibition	Malegaon, Dist. Nanded	25 to 26.12.2019	Participated
3	Sahyadri Exhibition	Shirwal, Dist. Satara	12 to 16.01.2020	Participated
4	Sharad Krushak	KVK Baramati, Dist. Pune	18.01.2020	Participated
5	Agri & Flower Exhibition	Bhuinj, Dist. Satara	23 to 25.01.2020	Participated

Post Graduate Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Title	Place	Date	Organized / Participated
1	Male Goat Exhibition	PGIVAS, Akola	09 to 11.08.2019	Organized
2	Agrotech- 2019	Dr PDKV, Akola	27.12.2019 to 29.12.2019	Participated

College of Dairy Technology, Warud

Sr. No.	Title	Place	Date	Organized / Participated
1	Exhibition: On occasion of VN Smruti Programme	Pusad	07.08.19	Organized
2	Krusha exhibition: On occasion of Dharmmachakra Pravartan Day	Nagpur	07.10.2019 to 08.10.2019	Participated
3	Krusha Exhibition: on occasion of Agrovision-19	Nagpur	22.11.2019 to 25.11.2019	Participated

**College of Dairy Technology, Udgir**

Sr. No.	Title	Place	Date	Organized / Participated
1	Dairy Exhibition	Udgir, Tq. Udgir, District-Latur	05.07.2019	Organized
2	Dairy Exhibition	Malhipparga Tq. Jalkot, District-Latur	05.12.2019	Organized
3	Animal and Bird Exhibition during Jalkot Yatra	Jalkot, Tq. Jalkot, District-Latur	12.12.2019	Participated
4	Animal and Bird Exhibition during Malegao Yatra	Malegao Tq. Loha District Nanded	25.12.2019	Participated
5	Animal and Bird Exhibition during Havgiswami Yatra	Udgir, Tq. Udgir, District-Latur	11.01.2020	Participated

College of Fishery Science, Nagpur

Sr. No.	Title	Place	Date	Organized / Participated
1	Agritech-2019 Exhibition	Dikshabhoomi, Nagpur	07.10.2019 to 08.10.2019	Participated
2	Agrovision-2019	Reshimbaug Ground, Nagpur	22.11.2019 to 25.11.2019	Participated

College of Fishery Science, Udgir

Sr. No.	Title	Place	Date	Organized / Participated
1	Agriculture and Animal Exhibition	Jalkot, Dist. Latur	12.12.2019	Participated
2	Shri. Hawgiswami Yatra, Udgir	Udgir, Dist. Latur	11.01.2020	Participated



EXHIBITIONS



Various breeds of goats during exhibition by PGIVAS, Akola



Experts briefing about poultry breeds to the dignitary visitors



KNPCVS, Shirwal stall at Sahyadri Exhibition



Experts from PGIVAS, Akola guiding students "Agro Tech 2019" Exhibition



Experts from COFS, Udgir guiding the farmers during exhibition



Expert from KNPCVS, Shirwal guiding visitors during "kisan-pashudhan 2019" exhibition



Experts from CDT, Udgir guiding farmers during Exhibition



Experts from COVAS, Udgir judging animals during Livestock Exhibition and Animal Show

**9.8. EXTENSION PUBLICATIONS/RADIO/TV TALKS**

Sr. No.	Name of college	Leaflets/ Booklets	Books	Local Publication (New-Paper)	Publications (Periodicals)	Radio Talks	T. V. Talks
1	Mumbai Veterinary College, Mumbai	11	02	06	04	10	02
2	Nagpur Veterinary College, Nagpur	13	02	03	04	08	05
3	College of Veterinary & Animal Science, Parbhani	09	01	15	01	14	04
4	College of Veterinary & Animal Science, Udgir	03	-	24	36	02	02
5	K.N.P. College of Veterinary & Animal Science, Shirwal	04	01	15	14	77	03
6	Post Graduate Institute of Veterinary & Animal Sciences, Akola	06	01	11	02	23	- 02
7	College of Dairy Technology, Warud	02	-	-	-	01	
8	College of Dairy Technology, Udgir	09	-	01	-	-	01
9	College of Fishery Science, Nagpur	07	01	01	-	04	01
10	College of Fishery Science, Udgir	-	-	01	01	-	01
11	DEE, MAFSU, Nagpur	10	-	-	-	1	-
	Total	74	08	77	62	140	21



10 FARM ACTIVITIES

Mumbai Veterinary College, Mumbai

Name of farm : Instructional livestock farm complex Goregaon ,Mumbai					
Year of establishment		:	1974		
Mandate		:	<ul style="list-style-type: none">• Practical demonstration to students of B.V.SC. & AH to improve skill• Practical demonstration to farmers & students, other faculties• To provide platform for carrying out research-CPCSEA approved by Govt. india• To conduct scientific goat and dairy training to farmers /entrepreneurs/ unemployed youths per demand• Conservation of Murrah buffalo breed• Research to improve productivity of these animals by developing site specific technology.		
Total land		:	35 acre		
Land under cultivation		:	15 acre		
Grazing land		:	Near Nala 1.5 acres		
Land under any other purpose		:	18.5 acres		
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
1.	18	19	80	76	-
Receipt from farm in Rs.					
	Sale of milk			6,93,566	
	Goat & dairy training			1,82,000	
	Sale of animal/s (Sheep & Goat)			4,04,881	
	sale of eggs and birds			268551	
	Poultry trainings			1,27,500	
	ANY OTHER Technical services to Essel World Leisure Pvt. Ltd.			70,000	
	Total			17,46,498	



Name of farm : Cattle Breeding Farm and Dangi Cow Research Station, Igatpuri					
Year of establishment		:	1946		
Mandate		:	<ul style="list-style-type: none">• To conserve the Dangi cattle breed and disseminate Dangi germplasam with high genetic merit• To undertake activities that leads to enhance productivity of Dangi cows• To propagate livestock management practices		
Total land		:	174 Acres		
Land under cultivation		:	55 Acres		
Grazing land		:	100 acres		
Land under any other purpose		:	19 Acres (Office building, animal shed, godawon, wells etc)		
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
1.	Dangi cattle: 151	Nil			
Receipt from farm in Rs.					
	Sale of milk				4,34,960 (10874lit)
	Any other item-				
	1. Sale of Manure				1,98,000
	1. Sale of Mango				23,220
	2. Sale of firewood				23,600
	Total -				6,79,780/-



Nagpur Veterinary College, Nagpur

Name of farm : Cattle Breeding Farm, NVC, Nagpur					
Year of establishment		:	1890		
Mandate		:	<ul style="list-style-type: none">• Conservation of indigenous germ plasm i.e. Gaolao cattle, Nagpuri buffalo.• Demonstration centre for dairy farming and fodder production / Conservation.• To provide educational facilities for UG, PG & Ph D Degree/ Research program.		
Total land		:	20.26 hectares		
Land under cultivation		:	8.55 hector		
Grazing land		:	5.15 hector		
Land under any other purpose		:	6.56 hector		
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
1.	78	46	04	41	400
Receipt from farm in Rs.					
	Sale of milk				17,90,985/-
	Goat and Dairy Training				28,500/-
	Sale of Fodder Stumps / Seed / Azolla				60,962/-
	Sale of animal/s (Sheep & Goat, Surplus Large Animals)				2,86,969/-
	Any other item-				80,926/-
	Sale of Eggs				5,96,564/-
	Sale of Birds				1,37,322/-
	Poultry Trainings				4,96,000/-
	Total				34,78,228/-

**College of Veterinary & Animal Sciences, Parbhani**

Name of farm : Livestock Farm Complex					
Year of establishment		:	1972		
Mandate		:	<ul style="list-style-type: none">• To impart the basic training to the undergraduate students• Demonstration unit of Red Kandhari cattle and preservation of pure germplasm.• Demonstration unit of Osmanabadi Goat and preservation of pure germplasm.• Demonstration unit of Deccani Sheep and preservation of pure germplasm.		
Total land		:	150 Acre		
Land under cultivation		:	90 Acre		
Grazing land		:	20 Acre		
Land under any other purpose		:	40 Acre		
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
1	01	28	54	70	-
Receipt from farm in Rs.					
	Sale of milk				2,43,210/-
	Goat & dairy training				61,000/-
	Sale of fodder stumps/seed/Azolla				11,500/-
	Sale of animal/s (Sheep & Goat)				2,19,335/-
	sale of eggs				1,69,194
	Poultry trainings				1,60,370
	Any other item- sale of scrap and fine on stray animal				43,100/-
	Total				9,07,709/-

**College of Veterinary & Animal Sciences, Udgir**

Name of farm : Cattle Breeding Farm/Livestock Farm Complex, COVAS, Udgir					
Year of establishment		:	1952		
Mandate		:	<ul style="list-style-type: none">• Conservation of Deoni animals with performance study• Conservation of Osmanabadi goat with performance study• Fodder production through Improved fodder production systems• To provide research and instructional facilities to students and staff research.		
Total land		:	Udgir-612.5 Acre, Sunegaon-187.5 Acre		
Land under cultivation		:	Udgir-92.5 Acre, Sunegaon-20.0 Acre		
Grazing land		:	Udgir-125 Acre, Sunegaon-50.0 Acre		
Land under any other purpose		:	Reserved pasture Land Udgir-75 Acre Sunegaon-50.0 Acre		
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
1	44	31	20	27	12
Receipt from farm in Rs.					
	Sale of milk				5,63,500 /-
	Goat & dairy training				38,000/-
	Sale of fodder stumps/seed/Azolla				85600/-
	Sale of animal/s (Sheep & Goat)				36088/-
	Sale of broilers and Guinea fowl				57636
	Any other item-				15,500/-
	Total				7,96,324/-



Name of farm : MAFSU, Sub-Centre, Udgir						
Year of establishment		: 31-03-2003				
Mandate		: First phase Mandate-				
Total land Land under cultivation		<ul style="list-style-type: none"> • Development of Deoni cattle and Marathwadi buffalo. • Development of Osmanabadi goat. • Poultry Research and Training Centre. • Fodder Development and Research centre 				
		Second phase Mandate-				
		<ul style="list-style-type: none"> • Establishment of Bio-Technology Centre. • Establishment of Veterinary Science Training Centre. 				
: 18.0 Acre						
: 18.0 Acre						
Livestock strength on 31st March 2020						
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry	
1	37	56	00	49	00	
Receipt from farm in Rs.						
	Sale of milk				8,80,951.00	
	Sale of animal/s (Sheep & Goat)				65679.00	
	Total				9,46,620.00	

**K. N. P. College of Veterinary Sciences, Shirwal**

Name of farm : Livestock Farm Complex							
Year of establishment		:	1992				
Mandate		:	Conservation and improvement of Khillar cattle, Pandherpuri buffalo and Sangamneri goat at the station as well as in the field.				
Total land		:	50 Acre				
Land under cultivation		:	30.37 Acre				
Livestock strength on 31st March 2020							
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry	Pig	
1	26	23	27	38	30	52	
Receipt from farm in Rs.							
	Sale of milk				5, 20, 470		
	Goat & dairy training				92,000		
	Sale of fodder stumps/seed/Azolla				14650		
	Sale of animal/s (Pig)				3,57,100		
	sale of eggs				1,11,914		
	Poultry trainings				41000		
	Any other item- wood				2160		
	Total				1,139,294		

**Post Graduate Institute of Veterinary & Animal Sciences, Akola**

1. Name of farm : Cattle Breeding Farm, Borgaon Manju					
Year of establishment	:	1973			
Mandate	:	<ul style="list-style-type: none">• Conservation and multiplication of local Berari Goat and Deccani sheep germplasm• Genetic improvement of Berari goat and Deccani sheep• Development of feed and fodder resources for goat and sheep• To conduct research on various aspects of Berari goat and Deccani sheep• Demonstration and training on goat and sheep keeping for employment generation and economic upliftment of rural people			
Total land	:	126 ha			
Land under cultivation	:	5 ha			
Grazing land	:	101ha			
Land under any other purpose	:	20 ha (Buildings and Roads)			
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
1	-	-	-	23	-
Receipt from farm in Rs.					
	Sale of fodder stumps/seed/Azolla			27,000	
	Sale of animal/s (Sheep & Goat)			60,798	
	Any other item-			2698	
	Total			90,496/-	



2.Name of farm : Purnathadi Buffalo Farm					
Year of establishment		:	2008-09		
Mandate		:	• Conservation of Purnathadi buffalo		
Total land		:	17 acres		
Land under cultivation		:	07 acres		
Grazing land		:	10 acres		
Land under any other purpose		:	Two buffalo sheds, a loose house for calves, a vermicompost unit, a godown and a farm office building		
Livestock strength on 31st March 2020					
Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry
01.	10	35	--	--	Reared 1500 broilers and 200 layers
Receipt from farm in Rs.					
	Sale of milk				60,900/-
	Sale of eggs/spent hens/ broilers/quails				2,77,479/-
	Poultry trainings				1,63,500/-
	Total				5,01,879/-

College of Dairy Technology, Warud, Pusad

S.N.	Name of College	Student Training Dairy Plant (STDP)
1	Year of establishment	2009-10
2	Mandate	• Teaching, Research and Extension
3	Quantity of Milk handle ELU	1675.00 cLit.
4	Expenditure on manufacturing of milk products	Rs 116451.00/-
5	Sale of milk Products	Rs 14288.00/-
6	Profit from sale of Milk products	Rs 8037/-

**College of Dairy Technology, Udgir**

S.N.	Name of College	Student Training Dairy Plant (STDP)
1	Year of establishment	2012-13
2	Mandate	• Teaching, Research and Extension
3	Quantity of Milk handle ELU	1839.5
4	Expenditure on manufacturing of milk products	1,17,542
5	Sale of milk Products	1,39,544
6	Profit from sale of Milk products	Rs. 22002

College of Fishery Science, Nagpur

Name of farm : Fish Seed Production Centre & Fish Farm		
Year of establishment	:	2008
Mandate	:	• Teaching, Research and Extension
Total land	:	2.9 Ha
Water spread area	:	0.7 Ha
Livestock strength on 31st March 2020 : Fish - 475 kg		
Receipt from farm in Rs. 57,000/-		

College of Fishery Science, Udgir

Name of farm : Seed Production Unit and Fish Farm, COFS, Udgir		
Year of establishment	:	2011
Mandate	:	• Teaching, Research and Extension
Total land	:	Fish Culture Ponds 0.45 ha
Livestock strength on 31st March 2020 : Fish - 200 kg		
Receipt from farm in Rs. 25100/-		



11 AWARDS, HONOURS AND RECOGNITIONS

11.1. UNIVERSITY AWARDS

Honorary Rank of Colonel bestowed upon Prof. A. M. Paturkar, Vice-Chancellor, MAFSU, Nagpur

The Ministry of Defence, Govt. India granted Prof. A. M. Paturkar, Vice Chancellor of MAFSU, the honorary Rank of Colonel in the National Cadet Corps and appointed him as Colonel Commandant of NCC, MAFSU. The Honorary Rank of Colonel was conferred on him on 30th April 2019 by Major General Gajendra Prasad, Yudh Seva Medal, Vishist Seva Medal, Additional Director General, Maharashtra Directorate in a modest ceremony at Rajat Jayanti Sabhagruha, Nagpur Veterinary College, Nagpur. On this occasion Group Captain M. Kalim, Group Commander NCC, Nagpur Group, Dr. N. N. Zade, Director of Instructions and Dean (Vet), Lieutenant Colonel Satveer Singh, Commanding Officer, 1 Maharashtra R & V Squadron, NCC, Shri. Chandrabhan Parate, Registrar, MAFSU, the officers of Defense Forces, Deans, Directors, other officials of University, Captain Dr. N. C. Nandeshwar, and Lt. Dr. Shital Chopde, staff and students of College and NCC cadets were present.



Conferment of Honorary Rank of Colonel to Prof. A. M. Paturkar, Vice-Chancellor, MAFSU, Nagpur

MAFSU's rank upgraded in ICAR Agricultural University Ranking

Agricultural Education Division of Indian Council of Agricultural Research (ICAR), New Delhi published the list of ranking of Agricultural Universities in India, where Maharashtra Animal and Fishery Sciences University (MAFSU), Nagpur rank upgraded from 31st to 28th in all 60 Agricultural Universities across India. Among State Agricultural Universities in Maharashtra, MAFSU stands second.

Col. (Dr.) Prof. A. M. Paturkar, Hon'ble Vice-Chancellor, MAFSU received 'CLFMA Award'

Col. (Dr.) Prof. A. M. Paturkar, Hon'ble Vice-Chancellor, MAFSU, Nagpur received 'CLFMA Award' considering his excellence of service in the field of Livestock Sector. The award was conferred on occasion of 52nd Annual General Meeting and 61st National Symposium 2019 held on 22nd and 23rd August 2019 at New Delhi.



Col. (Dr.) Prof. A. M. Paturkar receiving CLFMA Award

**11.2. FACULTY AWARDS / ACHIEVEMENTS****Mumbai Veterinary College, Mumbai**

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. Adhiti Bhanotra	Women Extension Scientist Award in the 3rd National conference of Society for Veterinary & Animal Husbandry Extension	G.B. Pant University of Agriculture & Technology, Pantnagar,	03.04.2019
2	Dr. Adhiti Bhanotra	Best Poster Presentation Award for the paper entitled "Documentation and Validation of Indigenous Technical Knowledge on health care and treatment"	Uttarakhand G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand	05.04.2019
3	Dr. R.J. Zende	IMSA Fellow Award (Indian Meat Science Association) for the significant contribution in the field of meat processing and technology at 9th IMSACON International symposium	College of Veterinary and animal Sciences, CSK, HPKV, Palampur (HP),	06.11.2019 to 08.11.2019
4	Dr. P. B. Hase	Best Oral Presentation Award (1st Rank) for the paper on "Snake Envenomation and successful recovery in Cattle- A Review"	Mathura	08.11.2019 to 09.11.2019
5	Dr. P. B. Hase	Best Poster Presentation Award (2st Rank) for the paper on "An overview on successful recovery of hepatic jaundice in cattle"	Mathura	08.11.2019 to 09.11.2019
6	Dr. S.R. Badhe and Dr. V.H. Shukla	First Prize in Poster Presentation in IMSACON-IX	CSK Himachal Pradesh Agriculture University, HP	06.11.2019 to 08.11.2019
7	Dr. V.M. Vaidya	MAFSU Best Research Publication Award- 2018 in recognition of publishing Research Article entitled "Cystic echinococcosis in animals and humans of Maharashtra State, India having NASS rating more than 7.05	Nagpur Veterinary College, MAFSU, Nagpur	03.12.2019
8	Dr. S. D. Tripathi	Dr. S. J. Angelo Young Scientist Award, 2019	Jabalpur	21.01.2020



9	Dr.D.G.Dighe	III prize for Best Research paper presentation	Banglooru	05.02.2020 to 07.02.2020
10	Dr. C. N. Galdhar	First prize for poster presentation in ISVM conference	Banglooru	05.02.2020 to 07.02.2020

Nagpur Veterinary College, Nagpur

Sr. No.	Name of Faculty	Name of Award / Achievement with Details	Place	Date
1	Dr. V. M. Dhoot Dr. G. R. Bhojne	Third ranked for clinical case presentation in TANUVAS 11th Clinical Case Conference on Farm & Companion Animal Practice for Veterinary Students	Madras Veterinary College, Chennai	30.08.2019 to 31.08.2019
2	Dr. M. S. Bawaskar	Rajya Stariy, Savitri - Jyoti Puraskar – 2019	Ahmednagar, Maharashtra	May 2019
3	Dr. S. P. Landge	Elected as General Secretary of Indian Veterinary Extension Forum (IVEF) during 8th IVEF National Conference	Nagpur Veterinary College, Nagpur	12.07.2019
4	Dr. Vaishali V. Banthiya	Elected as Treasurer of Indian Veterinary Extension Forum (IVEF) during 8th IVEF National Conference	Nagpur Veterinary College, Nagpur	12.07.2019
5	Dr. R.Y. Charjan	Dr. V. Ramakrishna Silver Jubilee medal for Anatomical Technique Topic - Technique to study Cuticular scales of animal hair XXXIV Annual convention of Indian Association of Veterinary Anatomist and National symposium	Veterinary College Bengalure	28.11.2019 to 30.11.2019
6	Dr.Megha Kaore	Young Scientist Award of Indian Association of Veterinary Pathology	CVSc, CAU, Selesih, Aizawl, Mizoram	06.11.2019 to 08.11.2019
7	Dr.Megha Kaore	First prize- ICVP case presentation of Indian Association of Veterinary Pathology	CVSc, CAU, Selesih, Aizawl, Mizoram	06.11.2019 to 08.11.2019
8	Dr. A. P. Dhok, Dr. A. D. Deshmukh, Dr. R. N. Dhore, Dr.	Best paper presentation award at International Conference of Animal Nutrition	International Conference of Animal Nutrition,	17.12.2019 to 19.12.2019



	N. V. Kurkure, Dr.D. S. Raghuwanshi, Dr. S. B. Kawitkar, Dr. P. E. Taksande, Dr.S. R. Lende, Dr. S. V. Chopde and Dr. M. R. Jawale		Kolkata	
9	Dr. A. P. Dhok	Dr. S.K. Ranjhan Best Doctoral Thesis Award	International Conference of Animal Nutrition, Kolkata	17.12.2019 to 19.12.2019
10	Dr.G.R. Bhojne	Indian Immunologicals Gold Medal Award 2020	XVIIth Annual Convention of Indian Society for Advancement of Canine Practice held at Jabalpur Vety.College	21.01.2020
11	Dr. S. W. Bonde	Excecutive body member SAPI	Avikanagar, Jaipur	18.02.2020 to 19.02.2020
12	Dr. V.C. Ingle	IAVMI Fellow	XXXIII annual Convention of IAVMI & national Conferance at IVRI, Izatnagar,(UP)	06.02.2020 to 07.02.2020
13	Dr. S. W. Bonde	Excecutive body member SVBBI	Tirupati	04.02.2020 to 05.02.2020
14	Dr. A. P. Dhok	Vice President, Animal Nutrition Association of India	IVRI	March 2020

**College of Veterinary & Animal Science, Parbhani**

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. P. V. Yeotkar	Certificate of Appreciation in greatful recognition for Judge in the poster exhibits during the International Union of Biochemistry and Molecular Biology 2019 Education conference, Philippines	Manila City, Philippines	13.11.2019 to 15.11.2019
2	Dr. P. V. Yeotkar	Certificate of Appreciation in greatful recognition for Parallel Session Reactor during the International Union of Biochemistry and Molecular Biology 2019 Education conference, Philippines	Manila City, Philippines	13.11.2019 to 15.11.2019
3.	Dr. V. D. Aher	Large Animal Poster Session Award during 43rd Congress of ISVS and National Symposium for Successful repair of Achilles tendon rupture in cow heifers	Hissar	15.11.2019 to 16.11.2019
4	Dr. R.V. Raulkar			
5	Dr. V. D. Aher			
6	Dr. B. K. Bhadane	Avian Surgery Session Award during 43rd Congress of ISVS and National Symposium successful surgical correction of crop fistula in a pigeon		

College of Veterinary & Animal Science, Udgir

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. A.U. Bhikane	Best Teacher Award by Padmashree Dr. Vitthalrao Vikhe Patil Krushi Parishad	Udgir	19.07.2019
2	Dr.P.B.Hase, Dr. A.U. Bhikane Dr.R. K. Jadhav	Best paper presentation award in National conference ofVIPM	Mathura	09.11.2019
3	Dr. A.U. Bhikane	Aarogya Ratna Puraskar by Saptfere Pratishthan, Latur	Latur	17.11.2019
4	Dr. S.M. Durge	Model Veterinarian Award from KRISHITHON sponsored by Government of Maharashtra in the category of Innovative Young Agricultural Researcher	Nashik	21.11.2019 to 25.11.2019
5	Dr. S.M. Durge	Best Poster Presentation Award in International Conference on Animal Nutrition 2019 organised by Department of Animal	Kolkata	17.12.2019 to 19.12.2019



		Nutrition, West Bengal University of Animal and Fishery Sciences, Kolkata		
6	Dr.M.K.Patil	Bharat Ratna Mother Teresa Gold Medal Award- 2019	Chennai, Tamil Nadu, India	21.12.2019
7	Dr.R.D.Suryawanshi	Certificate of recognition for outstanding contribution to the quality of journal as a peer reviewer	COVAS, Udgir	For year 2019
8	Dr. A.U. Bhikane	Rangkarmi sahitya pratisthan, Udgir-Aarogya seva puraskar	Udgir	19.01.2020

K.N.P. College of Veterinary Science, Shirwal

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. S.M. Bhokre	Excellance in Extension Award	GRISSAS-2019 NARM Hyderabad	22.10.2019
2	Dr. A.V. Khanvilkar	Excellance in Teaching Award	GRISSAS- 2019 NARM Hyderabad	22.10.2019
3	Dr. B. P. Kamdi	Adarsh Pashuvaidyak Purskar	Human Resource Foundation, Nashik.	25.11.2019
4	Dr. B. P. Kamdi	IAVP Best PhD Thesis Award, Indian Association of Veterinary Pathologists	Aijwal, Mizoram	November 2019
5	Dr. V. S. Dhaygude	Awarded with "Certificate of Achievement" by Japan Science and Technology Agency for successful completion of 10 days course during 20th to 29th January, 2020 under Sakura Science Youth Exchange Programme	Azabu University, Fuchinobe, Tokyo, Japan	January 2020
6	Dr. M.N.Rangnekar Dr. M.B.Amle Dr. K.P.Khillare	Best Poster Presentation Award-2019 Indian Society for Study of Animal Reproduction Annual Convention & International Symposium,	Veterinary College & Research Institute, Namakkal (T.N.)	20.12.2019
7	Dr. M.N.Rangnekar	Appreciation letter for animal Judging at national level animal exhibition, Malegaon from Deputy Director, Nanded, State Government, Maharashtra	Malegaon, Nanded	25.12.2019
8	Dr. B. N. Ambore	Appreciation award by VIPM society in its Annual Convention and National Symposium	Mathura (UP)	08.11.2019 to 09.11.2019

**PG Institute of Veterinary & Animal Sciences, Akola**

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. S. V. Kuralkar	Recognition for Documenting profile of 3 livestock owners for Breed savior award (Berari goat and Purnathadi buffalo) sponsored by SEVA (NGO)	NBAGR, Karnal	22.05.2019
2	Dr. S. V. Kuralkar	Certificate of Honour for profiling local germplasm by NBAGR, Karnal	NBAGR, Karnal	22.05.2019
3	Dr. S. P. Waghmare	Dr Divakar Shankar Gohre Best Animal Science Teacher/ Animal Scientist Award from Senior Veterinary Foundation, Pune	Pune	26.05.2019
4	Dr. P.R. Rathod	Asian Journal of Animal & Veterinary Sciences - Certificate of Excellence	Deira, Dubai, UAE	14.06.2019
5	Dr. P.R. Rathod	Journal of Pharmaceutical Research International - Certificate of Excellence	Hooghly, West Bengal	27.06.2019
6	Dr. P.R. Rathod	Current Journal of Applied Science and Technology - Certificate of Excellence	Hooghly, West Bengal	27.07.2019
7	Dr. M.V. Ingawale	Late Vasantrao Naik Krushi Prerna Puraskar, Krushi Care Manch, Nashik	Pune	25.08.2019
8	Dr. Mayura A. Gole	First price for Best research article presentation award in National Symposium on Paradigm Transformation of Technological Advancement in Veterinary Sciences : National Perspective	Akola	26.11.2019
9	Dr. M. R. Wade	Second price for Best research article presentation award in National Symposium on Paradigm Transformation of Technological Advancement in Veterinary Sciences : National Perspective	Akola	26.11.2019
10	Dr. S. V. Kuralkar	"Best Teacher Award" from PGIVAS Alumni Association Akola	PGIVAS, Akola	26.11.2019
11	Dr. S. J. Manwar	Indian Poultry Science Association (IPSA) Fellow Award - 2019	Durg, Chattisgarh	11.12.2019
12	Dr. G.J. Panchbhai	Certificate of Merit-Best second Oral paper Presentation during ISAPM conference,	Jaipur, Rajasthan	04.02.2020 to 06.02.2020

**College of Dairy Technology, Warud**

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. C.D.Khedkar	National Academy of Dairy Sciences (NADS)	-	05.09.2019
2	Dr. Prasad S. Patil	Best Poster Award (First Prize) in National Seminar on "Contemporary Trends in Dairy and Food Processing"	CDT, Udgir	09.11.2019

College of Dairy Technology, Udgir

Sr. No.	Name of Faculty	Name of Award / Achievement with details	Place	Date
1	Dr. S S Chopde Dr. M.R Patil	3rd Best Poster Award at National seminar "Future of dairy industry: Vision 2025"	College of Dairy Technology, Warud	14.12.2019 to 15.12.2019
2	Dr. M.R Patil Dr.S.D Kalyankar Dr. S. S. Chopde Dr. N.R Pawar	Best Poster Award at National seminar on "Contemporary trends in dairy and food processing"	CDT, Udgir	09.11.2019



AWARDS



Dr. Ravindra Zende, Professor, MVC, Mumbai receiving the Fellow of IMSA Award



Dr. S. B. Akhare, Professor, NVC, Nagpur awarded with Fellowship of ISVS



Prof. Dr. C.S. Mamde Professor, COVAS, Parbhani awarded as the Fellow, IAVA



Dr. Megha Kaore, Assistant Professor, NVC, Nagpur receiving Young Scientist Award



Dr. Atul Dhok, Assistant Professor, NVC, Nagpur receiving best Ph.D. Thesis Award



Dr. S. J. Manwar, Professor of Poultry Science, PGIVAS, Akola receiving IPASA Fellow Award



Dr. S. M. Durge, SMS, COVAS, Udgir receiving Model Veterinarian Award in Krishithon - Yuva Sanman 2019



Dr. Mahesh Rangnekar, Assistant Professor, KNPCVS, Shirwal receiving Best Poster Presentation Award



12 VISITS OF DIGNITARIES

Visit of Hon'ble Giriraj Singh ji to MAFSU, Nagpur

Hon'ble Union Minister of Animal Husbandry, Dairying and Fisheries, Shri Giriraj Singh visited Maharashtra Animal and Fishery Sciences University, Nagpur on 31st August 2019. Col. (Dr.) Prof. A. M. Paturkar, Hon'ble Vice-Chancellor, MAFSU welcomed him. All the senior officers of University, Professors and Staff members were present for the meeting organized during his visit to MAFSU. Hon'ble Vice-Chancellor briefed the University activities. Hon'ble Minister advised to make the farmers oriented research so that the farmers can get the maximum profit from their production.



Hon'ble Union Minister, Shri Giriraj Singh Ji interacting during meeting with staff members along with Hon'ble Vice-Chancellor Prof. A. M. Paturkar

Visit of Hon'ble Shri Sunil Kedar Ji to MAFSU, Nagpur

Hon'ble Minister Animal Husbandry, Dairy Development, Sports and Youth Welfare, Maharashtra State, Shri Sunil Kedar Ji visited Maharashtra Animal and Fishery Sciences University, Nagpur on 19th January 2020. Hon'ble Vice-Chancellor Prof. A. M. Paturkar felicitated him. Hon'ble Minister took review of Education, Research and Extension. All Senior Officers and staff of University was present for the programme. He also visited Poultry Training and Research Centre, Nagpur.



Felicitatation of Hon'ble Shri. Sunil Kedarji by Hon'ble Vice-Chancellor Prof. A. M. Paturkar

**Mumbai Veterinary College, Mumbai**

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Dr. Bhilegaonkar, Scientist and Incharge ICAR-TEC, Pune	12 to 18.02.2020	Lap training
2	Dr. H. P. Aithal, Principal Scientist, ICAR-TEC	12 to 18.02.2020	Lap training
3	Dr. Amarpal, HOD, Division of Surgery, IVRI	12.02.2020	Lap training

Nagpur Veterinary College, Nagpur

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Vigyan Bharti - Dr. K. L. Wasewar, VNIT Nagpur,	09.05.2019	Visit to Anatomy
	11 Students and 02 Coordinator from UAE		Museum
2	Dr. V. V. Sadmate, Former Member, National Planning Commission, Govt. of India, New Delhi	13.07.2019	For 8th IVEF Conference
3	Padma Vibhushan Dr. Vijay Bhatkar, Hon'ble Vice-chancellor, Nalanda University, Bihar	28.07.2019	For the Workshop on 'Scientific Goshala Management Practices'
4	Mr. Anand B. Rathod, Director, Rural Self Employment Training Institute, Wardha	01.09.2019	Official Visit
5	Dr. Atul Latkar, MD Kasturi Farm Pvt. Ltd Pune	11.10.2019	Official Visit
6	Dr. Sunil Deshpande, Sr. General Manager Production and R & D, Suguna Foods Pvt., Coimbtor	13.11.2019	Official Visit
7	Malcon Bennett, Rachel Gomer, Tauya Mwachaga and Robert Atterbumy University of Nottingen, UK	07.01.2020	Visit to Anatomy Museum

College of Veterinary & Animal Science, Parbhani

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Shri. Mahadevrao Ji Jankar, Hon'ble Cabinet Minister, Dept. of AH, Dairy Development & Fishery Development, Maharashtra State	11.09.2019	Inauguration of Renovation of Livestock Farm Complex'

**College of Veterinary & Animal Science, Udgir**

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1.	Dr. Surya Prasad, Head, Veterinary Services, IIL, Hyderabad	12.09.2019	Project overview
2.	Dr. Sachin Agwane, Principle Scientist, NCL, Pune	30.12.2020	Visit to Department
3.	Dr. B.S. Nagoba, Assistant Dean, Medical College, Latur	13.01.2020	Visit to Department
4.	Dr. Khobragade, Head, School of Life Sciences, SRTM Nanded University	13.01.2020	Visit to Department and IBSC Meeting
5.	Dr. N.V. Nighot, Dy. Director, RG Zoo, Pune	02.03.2020	Visit to Department
6.	Dr. P.T. Chopde, Regional Manager, Pune	07.03.2020	Visit to Department

K.N.P. College of Veterinary Science, Shirwal

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Dr. Favbice Payot, Global Marketing Director, ruminant, Virbac Ltd.	07.11.2020	Technical seminar on "Target 150 days for profitable dairy farm"
2	Dr. Sanjay Awaghate, Gen. Manager, Key Account Management virbac Ltd.		
3	Mr. Sanjay Kapoor –General Manager-Sales & customer service Virbac Ltd.		
4	Dr. Jetendranath Saha, General Manager, Marketing Virbac Ltd.		
5	Mr. Sachin Bhosale, Aear Business manager, Virbac Ltd.	07.10.2020	For Technical Seminar
6	Shri. Vikrant Ghorpade, Business Officer, Virbac Ltd.		
7	Dr. Premenshu, Technical officer, Virbac Ltd.		
8	Dr. Bhosale, Technical Officer, Virbac Ltd.		
9	Dr. Bahar Baviskar President Wild CER	06.02.2020	For Technical Seminar
10	Dr. N. M. Markendeya, Associate Dean, COVAS Parbhani	09.03.2020	For Technical Seminar

PG Institute of Veterinary & Animal Sciences, Akola

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Dr. Rajendra Bambal, Deputy Commissioner of Animal Husbandry, Government of India, New Delhi	29.04.2019	Chief Guest of program of celebration of World Veterinary Day-2019
2	Dr. M B Nagdeve, Dean, Faculty of Agricultural Engineering, DR. PDKV, Akola	08.08.2019	Inauguration of Male Goats



			Exhibition programme
3	Shri. Mahadeoji Jankar, Hon'ble Minister of Ani. Husbandry & Dairy and Pro-Chancellor, MAFSU, Nagpur	26.08.2019	Maiden visit to Institute
4	Shri. G.B. Naravate, Executive Council Member, MAFSU, Nagpur	08.09.2019	Maiden visit to Institute
5	Shri. Sunilji Kedar, Hon'ble Minister of Ani. Husbandry & Dairy and Pro-Chancellor, MAFSU, Nagpur	06.02.2020	Maiden visit and review status of new UG College
6	Dr. V. M. Bhale, Hon'ble Vice Chancellor, Dr. P. D. K. V., Akola	06.02.2020	For new UG College collaboration
7	Dr. V. M. Mayande, Ex-Hon'ble Vice Chancellor, Dr. P. D. K. V., Akola	06.02.2020	Maiden visit to Institute

College of Dairy Technology, Warud

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Induja Mahila Sahakari Milk company	18.05.2019	To takeover STDP on rent for collection and chilling of milk
2	Mr Akash A. Thakare Coffee Cave Amaravati	19.02.2020	Technological developments sterilized products

College of Dairy Technology, Udgir

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1.	Dr.H.Manjunath, Dean, Dairy Science College, Kaleburgi along with their staff Dr.Shashi Kumar, Assistant Professor, Dairy Technology and Dr.Priyatban Reddy, Assistant Professor, Dairy Technology	25.09.2019	Official Visit
2.	Dr.Ashok V. Gupte, President, Dairy Technologist Association, Maharashtra,	09.11.2019	Visit



	Dr.H.Manjunath, Dean Dairy Science College, Kaleburgi		
3.	Dr.A S Khojare. Department of Dairy Science and Technology, Incharge Community College, UGC Scheme of Skill Development, Vivekanand College, Aurangabad	09.11.2019	Visit
4.	Shri Govind Narwate and Dr. Bhagwan Satale, Hon'ble Executive Council Member, MAFSU, Nagpur	03.12.2019	Visit and discussion on the problems of Institute staff

College of Fishery Science, Nagpur

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1.	Dr. S. A. Nimbalkar, former Vice-Chancellor, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola	05.03.2020	Visit to college and guidance to students

College of Fishery Science, Udgir

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Shri. G. B. Narwate, Hon.ble Executive Council Member, MAFSU, Nagpur	15.07.2019	To review college activities

Wildlife Research & Training Centre, Gorewada, Nagpur

Sr. No.	Name of Dignitary with Designation	Date	Purpose of Visit
1	Dr. Raman Gangakhedkar, Head Epidemiology & Communicable diseases, ICMR, New Delhi and Dr. D.T. Mourya, Director, NIV, Pune	15.04.2019	Official Visit
2	Shri. Sharad Arvind Bobde, Hon'ble Judge of Supreme Court of India, and Prof. A.M. Paturkar, Hon'ble Vice Chancellor, MAFSU	20.06.2019	Official Visit
3	Range Forest Officers (RFO)- Central India Study Tour of 2018-2020 SFS Batch –II of Central Academy for State Forest Service- Coimbatore	02.08.2019	Official Visit



4	Shri. M. Shrinivas Rao, APCCF, FDCM Ltd., Nagpur and Shri. Nandkishor Kale, Divisional Manager, Gorewada	01.10.2019	Official Visit
5	Shri. Rishikesh Ranjan (IFS), General Manager (GM), Forest development Cooperation of Maharashtra Ltd.	14.11.2019	Official Visit
6	54 newly recruited Forest Range Officers (Central and South India Tour) from Central Academy for State Forest Service, Burnihant, Assam	08.12.2019	Official Visit
7	Shri.Tilottama Verma, Additional Director, Wildlife Crime Control Bureau, Delhi visited Gorewada Rescue centre, Nagpur	10.12.2019	Official Visit
8	Shri Sarvesh Kumar, Hon'ble former Managing Director, FDCM, Nagpur	26.12.2019	Official Visit
9	Dr. S.H. Mahavarkar, Additional Commissioner of Police	27.12.2019	Official Visit
10	Mr. Anant Kishor Behra, Accountant general of Mumbai (AG-1)	01.01.2020	Official Visit
11	Mr. Nitin Gadre, The Principal secretary, Accounts &Treasury, Finance Department, Government of Maharashtra	26.02.2020	Official Visit
12.	Shri. Sanjay Ji Rathod, Hon'ble Minister of Forest, Disaster Management, Relief and Rehabilitation, Government of Maharashtra, Hon'ble Vice Chancellor, MAFSU, Nagpur Col. (Dr.) Prof. A.M. Paturkar, Dr. N. Rambabu, Hon'ble Managing Director, Forest Development Cooperation of Maharashtra (FDCM), Shri Rishikesh Rajan, General Manager, FDCM, Shri. Nandkishor Kale, Divisional Manager, Gorewada Project, Nagpur,	29.02.2020	Official Visit



VISIT OF DIGNITORIES



Hon'ble Shri. Mahadeoji Jankar interacting with staff during his visit to PGIVAS, Akola



Visit of Additional Director, Wildlife Crime Control Bureau, Delhi to WRTC, Gorewada



Visit of Shri. Sanjay Rathod ji
Hon'ble Minister to Gorewada Rescue Centre



Visit of Dr. Rahul Patil Ji to the college
Poultry farm of COVS, Parbhani



Hon'ble Cabinet Minister Shri Mahadev Jankar Ji during his visit to COVAS, Parbhani



Visit of Dr. S. H. Mahavarkar, Additional Commissioner of Police to WRTC, Gorewada



Visit of Mr. Anant Kishor Behra, Accountant general of Mumbai to WRTC, Gorewada



Visit of Dr.H Manjunath, Dean Dairy Science College, kaleburge to CDT, Udgir



13 BUILDING AND CONSTRUCTIONS

13.1. COMPLETED WORKS:-

Sr. No	Particulars of work	Total Cost (INR inLakh)	Funding Agency
1.	Providing Internal EI to Residential Bungalow Cum Office for Honble Vice Chancellor MAFSU, Nagpur.	20.29	State Govt. Grant
2.	Construction of H.V.C. Residence at M.A.F.S.U., Nagpur.	253.52	State Govt. Grant
3.	Construction of 3rd floor to existing Girl's hostel building at Parel Campus at B.V.C. Mumbai.	213.00	State Govt. Grant
4.	Providing electrification to 3rd floor on existing girls hostel building at Bombay Veterinary College, Mumbai.	13.94	State Govt. Grant
5.	Renovation of existing Conference and H.V.C. Toilets for M.A.F.S.U. including Elec. work	7.91	State Govt. Grant
6.	Construction of Approach Road for hostel building at K.N.P.V.C. Shirval.	61.00	State Govt. Grant
7.	Construction of laboratory building for Marathwadi Buffalo research project at C.O.V.A.S., Udgir.	141.00	MVK & URR
8.	Repair and renovation of existing building of teaching Veterinary Clinical Complex for N.V.C., Nagpur	40.93	RKVY & URR
9.	Construction of Canteen for Nagpur Veterinary College at Seminary Hills Nagpur	19.58	URR
10.	Repair & Renovation work to Nutrition department for Nagpur Veterinary College, Nagpur.	9.95	URR
11.	Providing and Installing Street lights poles with LED lights and feeder pillar in the campus at N. V. C., Telankhedi, Nagpur	28.72	URR
12.	Providing Internal electrical installation Radio Modem link to connect the building of Uni. Lib. NVC, CBF, COFS, PRC, MAFSU, Nagpur.	9.95	URR
13.	Providing energy efficient devices at COFS Nagpur	8.79	URR
14.	Providing Internal electrical installation to canteen at NVC Nagpur.	24.99	URR
15.	Replacement of existing electrical equipment with energy saving equipment at KNPVC Shirval.(Meda)	21.07	MEDA
16.	Replacement of existing electrical equipment with energy saving equipment at BVC Parel. Mumbai.	17.32	MEDA
17.	Replacement of existing electrical equipment with energy saving equipment at COVAS. Udgir.	14.16	MEDA
18.	Replacement of existing electrical equipment with energy saving equipment at COVAS. Parbhani	16.76	MEDA



19.	Replacement of existing electrical equipment with energy saving equipment at DTC. Warud.	5.12	MEDA
20.	Construction of Compound wall between MJP Guest house & Animal Husbandry Deptt. For MAFSU, H.Q. at Nagpur.	3.63	URR
	TOTAL	931.63	

13.2. ON GOING WORKS:-

Sr. No	Particulars of work	Total Cost (INR inLakh)	Funding Agency
1.	Repairs of boys Gokul Hostel at C.O.V.A.S. Parbhani.	70.06	ICAR Grant
2.	Renovation of UG & PG Hostel at Parel, B.V.C. Mumbai.	279.00	State Govt. Grant
3.	Renovation of Anatomy, medicine, animal genetics, laboratory at Parel, B.V.C. Mumbai.	133.78	
4.	Construction of Guest house at C.O.V.A.S. Udgir	520.00	
5.	Construction of Administrative building for College of Fishery Science, Nagpur.	354.41	
6.	Construction for Boys Hostel for 300 students at Goregaon campus, B.V.C. Mumbai.	1061.97	
7.	Construction of 1st floor to existing Girl's hostel building at Goregaon campus, B.V.C. Mumbai.	400.00	
8.	Construction of 400 meter Compound wall adjacent to express way at Goregaon campus, B.V.C. Mumbai.	21.80	RKVY & URR
9.	Construction of Girl's Hostel at C.O.V.A.S., Udgir.	528.09	
10.	Construction of teaching Veterinary Clinical Complex for N.V.C., Nagpur.	191.79	RKVY & URR
11.	Proposed renovation work for TVCC Goregaon Campus, Mumbai	55.96	RKVY & URR
12.	Construction of College Canteen at College of Veterinary and Animal Sciences, Parbhani	17.75	URR
13.	Construction of Training Hall at TVCC and Renovation of TVCC under RKVY scheme at College of Veterinary and Animal Sciences, Parbhani	54.43	RKVY & URR
14.	Construction of Post Mortem Hall at College of Veterinary and Animal Sciences, Parbhani	20.07	URR
15.	Renovation of Electrical Installation to TVCC Building Goregaon Campus at Bombay Veterinary College, Mumbai.	13.10	RKVY & URR
16.	Construction of Post Mortem room at Bombay Veterinary College, Mumbai	22.62	URR
17.	Construction of Compound wall/Retaining wall of survey no. 23/1 for MAFSU, Nagpur.	27.29	URR
	TOTAL	3772.12	



14 ACCOUNTS AND FINANCE

14.1 STATE GOVERNMENT GRANTS FOR THE YEAR 2018-2019

Sr.No.	Particular	Amount Received (in Rs.)	Expenditure (in Rs.)
A	NON PLAN		
1	Salary	844374516	844374516
2	Pension	287285000	287285000
3	Contingency	24210000	24210000
4	Works	0	0
	TOTAL Rs.(A)	1155869516	1155869516
B	PLAN		
1	Contingency	5067000	5067000
2	AICRP	933000	933000
	TOTAL Rs.(B)	6000000	6000000
	TOTAL Rs. (A+B)	1161869516	1161869516

14.2 INDIAN COUNCIL OF AGRICULTURAL RESEARCH, NEW DELHI GRANTS

Sr.No.	Particulars	Amount Received (in Rs.)	Expenditure (in Rs.)
1	ICAR	79368084	74263371
	Total	79368084	74263371

14.3 UNIVERSITY RECEIPT

Sr.No.	Particulars	Amount Received (in Rs.)	Expenditure (in Rs.)
1	University Receipt	210645000	199549000
	Total	210645000	199549000

**14.4 ALLOCATION OF FUNDS FOR EDUCATION, RESEARCH AND EXTENSION**
(Amount in Lakh)

Sr. No.	Name of Institute	Office Expenditure	Education	Research	Extension	Total Expenditure
1	MVC, Mumbai	120	61	43	34	258
2	NVC, Nagpur	191	76	1	2	270
3	COVAS, Udgir	78	14	7	4	103
4	COVAS, Parbhani	63	60	41	37	201
5	KNPCVS, Shirwal	116	50	32	16	214
6	PGIVAS Akola	15	16	28	1	60
7	CDT, Warud	45	9	2	1	57
8	CDT, Udgir	13	1	1	0	15
9	COFS, Nagpur	15	4	0	0	19
10	COFS, Udgir	7	1	0	0	8
11	CBF, Borgaon Manju	1	0	2	1	4
12	CBF, Nagpur	45	0	0	0	45
13	CBF, Igatpuri	9	0	0	0	9
14	CBF, Udgir	10	1	1	0	12
15	SUB CENTRE, Udgir	5	1	1	0	7
16	HQ MAFSU Nagpur	571	99	10	32	712
	TOTAL	1304	393	169	128	1994



Mumbai Veterinary College, Mumbai



Nagpur Veterinary College, Nagpur



College of Veterinary and Animal Sciences, Parbhani



Krantisinh Nana Patil College of Veterinary Science, Shirwal



College of Veterinary and Animal Sciences, Udgir



Post Graduate Institute of Veterinary & Animal Sciences, Akola



College of Dairy Technology, Warud



College of Dairy Technology, Udgir



College of Fishery Science, Nagpur



College of Fishery Science, Udgir



MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR

Futala Lake Road, Nagpur - 440 001

Phone : 0712 - 2511273, E-mail : registrarmafsu@yahoo.com, Web : www.mafsu.in.

Toll Free No. 1800-233-3268