



MAFSU,
Template – College Website(s)

Research:

1. **Collaboration as Co-PI in Other Department Sanctioned Research Projects**

- **Sustainable Tribal Livelihood through Scientific Backyard Poultry Rearing in Gadchiroli District of Maharashtra funded by ICAR, New Delhi under Tribal Sub-Plan**
PI: Dr. M. M. Kadam, Assistant Professor, Dept. of Poultry Science.
Co-PI: Dr. M.A. Gole, Dr. A.R. Patil, **Dr. Sariput P. Landge** and **Dr. V.K. Basunathe**
- **Raising of Tribal Livelihood: Quality Milk Production through Udder Health Management Practices funded by ICAR, New Delhi under Tribal Sub-Plan**
PI: Dr. S. P. Chaudhari, Associate Professor, Dept. of Veterinary Public Health.
Co-PI: Dr. W. A. Khan, Dr. S. V. Shinde, Dr. A. R. Patil, **Dr. Vaishali V. Banthiya** and **Dr. Sariput P. Landge**
- **Dairy Development through Implementation of Heat Synchronization Demonstrations in Cattle and Buffaloes in Nagpur District ATMA, Nagpur**
PI: **Dr. Sariput P. Landge**, Assistant Professor, Dept. of Vet. & A.H. Extension
Co-PI: Dr. S. K. Sahatpure, Dr. A. D. Patil, Dr. M. S. Patil and **Dr. Vaishali V. Banthiya**
- **Development of Sustainable Animal Husbandry Practices in the Tribal Villages of Gadchiroli District of Maharashtra State under**
PI: Dr. M. S. Patil, Assistant Professor, Dr. S. K. Sahatpure, Dept. of ARGO
Co-PI: **Sariput P. Landge**, Assistant Professor, Dept. of Vet. & A.H. Extension

2. **Thesis:**

Masters: M.V.Sc.

Name of Department: VETERINARY AND ANIMAL HUSBANDRY EXTENSION				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	Miss. Smita Harishchandra Surkar (V/02/96)	Adoption of Preventive Measures for Quality Milk Production by Farmers	2004	Dr. S.W. Sawarkar
2.	Mr. Vijay Kisanrao Basunathe (V/02/87)	Technology Adoption Behaviour of Dairy Farmers in Less Milk Producing Areas	2004	Dr. S.W. Sawarkar
3.	Miss. Banthiya Vaishali Virendra (V/02/423)	Effect of Demonstration on the Adoption of Under Health Management Practices by Dairy Women	2005	Dr. S.W. Sawarkar
4.	Mr. Khode Narendra	Extent of Adoption of Improved Dairy Cattle Management Practices by	2005	Dr. S.W. Sawarkar



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	Vishwanath (V/02/368)	Beneficiaries Under Vidarbha Development Programme Package		
5.	Mr. More Datratay Shankar (V/02/355)	Adoption of Improved Buffalo Management Practices by Rural Below Poverty Line Farmers of Nagpur District	2006	Dr. S.W. Sawarkar
6.	Mr. Nande Milind Pundalik (V/02/442)	Information Seeking Behaviour of Dairy Farmers of Nagpur District	2007	Dr. S. H. Gawande
7.	Mr. Patil Amol Pramod (V/02/505)	Training Needs of Dairy Farmers in Nagpur District	2007	Dr. S. H. Gawande
8.	Miss. Tiple Ashwini Vijaykumar (V/02/575)	Adoption of Improved Dairy Production Innovations by Members and Non-Members of Dairy Co-operative Societies in Nagpur District	2008	Dr. S. H. Gawande
9.	Mr. Khandait Vivek Natthuji (V/02/605)	Adoption of Backyard Poultry Practices in Bhandara District of Maharashtra	2008	Dr. S. H. Gawande
10.	Mr. Lohakare Amit Chandrabhan (V/02/1813)	Adoption of Animal Husbandry Practices by the Cattle Owners in Different Farming System in Nagpur District	2009	Dr. S. H. Gawande
11.	Miss. Khose Kavita Ashok (V/03/0086)	Adoption of Reproductive Health Management Practices by Cattle Owners in Nagpur District of Maharashtra	2010	Dr. S. H. Gawande
12.	Miss. Chaudhari Sanjivani Bhimrao (V/02/498)	Job Satisfaction of Livestock Development Officers in Vidarbha Region of Maharashtra	2010	Dr. S. H. Gawande
13.	Mr. Raje Aviraj Dinkar (V/03/0088)	Adoption of Improved Dairy Management Practices by Cattle Owners in Different Farming System in Nagpur District	2011	Dr. S. H. Gawande
14.	Mr. Hagone Vaibhav Dhanraj (V/05/0123)	Decision Making Towards Improved Dairy Management Practices by The Tribal Women of Amaravati District	2012	Dr. V. K. Basunathe
15.	Mr. Kalpande Nitin Bhikaram (V/05/0127)	Comparative Study of Contract and Non-Contract Broiler Poultry Farming in Nagpur District of Vidarbha Region in Maharashtra State	2013	Dr. V. K. Basunathe
16.	Mr. Madane Naveenkumar Mohan (V/07/011)	Adoption of Dairy Husbandry Practices (DHPs) by Tribal Dairy Farmers in Gadchiroli District of Maharashtra	2014	Dr. Vaishali V. Banthiya
17.	Mr. Pawade Pawan Arvind (V/09/043)	A Comparative Study of Adoption of Dairy Husbandry Practices (DHPs) in Conventional and Loose Housing System (LHS) by Dairy Farmers in Western Maharashtra	2016	Dr. Sariput P. Landge



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18.	Mr. Koma Sarveshwar Sakharam (V/09/053)	A Descriptive Analysis of Tribal Goat Farming System in Gadchiroli District of Maharashtra	2017	Dr. Sariput P. Landge
19.	Mr. Nandeshwar Jishant Dalitkumar (V/11/120)	Development of Android Based Mobile Application for Goat Management Practices and its Effectiveness for Goat Farmers	2018	Dr. Sariput P. Landge
20.	Miss. Khobragade Jotshana Ashok (V/11/251)	Development of Android Based Mobile Application on Desi Chicken Management Practices and its Effectiveness for Poultry Farmers	2018	Dr. Vaishali V. Banthiya
21.	Mr. Nitin Kumar Mishra (V/17/378)	Development of Android Based Mobile Application on Dairy Management Practices and its Effectiveness for Dairy Farmers	2019	Dr. Sariput P. Landge
22.	Mr. Gharde Prashant Dilip (V/13/017)	Appraisal of Pig Farming Practices in Vidarbha Region of Maharashtra	2021	Dr. Vaishali V. Banthiya
23.	Mr. Meshram Sujit Haridas (V/14/156)	Study of Livestock Marketing in Eastern Vidarbha Region of Maharashtra	2022	Dr. Sariput P. Landge

3. Research Recommendations: Dept. of Vet. & A.H. Extension Education, NVC, Nagpur

Sr. No.	01
Year	2016-17: XV Joint Animal Science Research Council Meet (Project Title No. 13/2016-17, Page No. – 04)
Project Title	A Comparative Study of Adoption of Dairy Husbandry Practices (DHPs) in Conventional and Loose Housing System (LHS) by Dairy Farmers in Western Maharashtra
Investigators	Dr. Pawan A. Pawade, Dr. Sariput P. Landge, Dr. Vaishali V. Banthiya, Dr. M. S. Patil, Dr. G. P. Shende and Shri. D. V. Patil
Recommendations	The loose housing system is recommended for rearing of dairy cattle considering the advantages such as low capital requirement for building the shed, efficient utilization of feed and water, lower requirement of labour, lower incidence of mastitis, other illnesses, lameness and infertility and ease in heat detection.
Sr. No.	02
Year	2018-19: XVII Joint Animal Science Research Council Meet (Project Title No. 17/2018-19, Page No. – 06)
Project Title	Development of Android Based Mobile Application on Goat Management Practices and its Effectiveness for Goat Farmers
Investigators	Dr. Jishant D. Nandeshwar, Dr. Sariput P. Landge, Dr. Vaishali V. Banthiya, Dr. S. S. Chopde, Dr. A. P. Dhok and Shri. D. V. Patil
Recommendations	The Android based Mobile Application developed by Department of



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	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.
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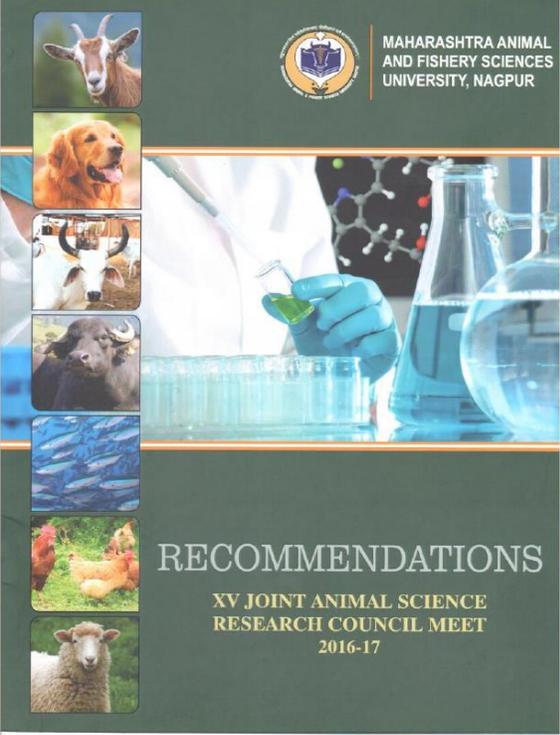
Sr. No.	03
Year	2018-19: XVII Joint Animal Science Research Council Meet (Project Title No. 18/2018-19, Page No. – 06)
Project Title	Development of Android Based Mobile Application on Desi Chicken Management Practices and its Effectiveness for Poultry Farmers
Investigators	Dr. Jotshana A. Khobragade, Dr. Vaishali V. Banthiya, Dr. Sariput P. Landge, Dr. A. P. Dhok, Dr. M. M. Kadam and Shri. D. V. Patil
Recommendations	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.

Sr. No.	04
Year	2019-20: 18th Joint Animal Science Research Council Meet (Project Title No. 11/2019-20, Page No. – 04)
Project Title	Development of Android Based Mobile Application on Dairy Management Practices and its Effectiveness for Dairy Farmers.
Investigators	Dr. Nitin Kumar Mishra, Dr. Sariput P. Landge, Dr. Vaishali V. Banthiya, Dr. S. S. Chopde, Dr. A. P. Dhok, and Shri. D. V. Patil
Recommendations	The Android based Mobile Application developed by Department of Veterinary and Animal Husbandry Extension Education, Nagpur Veterinary College, Nagpur on Dairy Management Practices - “Dairy Farming” (Dugdha Vyavasaya) is recommended as an ICT tool for the effective dissemination of information among the dairy farmers.



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RESEARCH RECOMMENDATIONS in JOINT ASRC



RECOMMENDATIONS
XV JOINT ANIMAL SCIENCE
RESEARCH COUNCIL MEET
2016-17

RECOMMENDATIONS
XV JOINT ANIMAL SCIENCE
RESEARCH COUNCIL MEET
2016-17

12 **Project Title** : Assessment of quality of chicken nuggets treated with garlic extract at refrigerated storage.

Investigators : Satish Yadav & Dr. S. R. Badhe

Name of the college : BVC, Mumbai.

Recommendation : Water used in emulsion preparation can be replaced with 50% garlic extract (50 ml garlic extract + 50 ml of water) to extend the shelf life of chicken nuggets upto 14 days under refrigeration condition (4±1) without any adverse effects on sensory qualities.

सिफारस : शिकन नोटदुस तयार करपासाठी इन्क्युबेशन तयार करताना पाण्या ऐवजी ५० टक्के सरलावा अर्क पाण्याने (५० मि एल सरलावा अर्क + ५० मि एल पाणी) वापरले तर नोटदुसची कित तयारपाल (४±१) ठिकून राहण्याची शक्यता १४ दिवसांपर्यंत वाढू शकते.

13 **Project Title** : A Comparative Study of Adoption of Dairy Husbandry Practices (DHPs) in Conventional and Loose Housing System (LHS) by Dairy Farmers in Western Maharashtra.

Investigators : Pawade Pawan Arvindrao and Dr. Sariput P. Landge

Name of the college : NVC, Nagpur.

Recommendation : The loose housing system is recommended for rearing of dairy cattle considering the advantages such as low capital requirement for building the shed, efficient utilization of feed and water, lower requirement of labour, lower incidence of mastitis, other illnesses, lameness and infertility and ease in heat detection.

सिफारस : गोज घांतीसठी जल्मलत कमी खर्च, खाद आणि पाणी यांचा पुणेपुन वापरणे, भव्यतयार होणारा कमी खर्च, संवयव्यारणे कमी प्रमाण तयार करणे शक्यतेत व दुग्ध उत्पादने कमी प्रमाण, संवयव्यारणे कमी प्रमाण, आणि पाद ओढाकण्यातील सुनयन इ. फायद्यामुळे दुग्धाल जनावरांतल्या संशोधनसठी मुक्त संतार गोज घांतीसठी सिफारस करव्यात येते.

14 **Project Title** : Association of sperm mitochondrial functional markers with semen quality traits in Murrah Buffalo.

Investigators : Dr. S. N. Jadhav, Dr. A. K. Barate, Dr. V. R. Patodkar

Name of the college : KNP College of Veterinary and Animal Science, Shirval, Satara.

Recommendation : Phenotypic quality of fresh & cryopreserved semen of Murrah buffalo is affected by alteration in mitochondrial functional markers including increased production of reactive oxygen species by sperm mitochondria, increased lipid peroxidation of sperm membrane, poor antioxidant defence mechanism in spermatozoa and alteration in gene expression in mitochondrial respiratory genes controlling mitochondrial activity in buffalo spermatozoa.

सिफारस : मुस्र जातीच्या शेवय्यांतील ताजा आणि अतिशय गोजील पिण्याची सुनयन ही सुनयनीकांच्या (Mitochondria) कार्यक्षमतेतील सुटले बदलांमुळे प्रभावित होत. सुकणू, सुकणीकांचा राइबोटीक आणिसोलाची घटिल निर्मिती, सुकणूच्या कवचाचे घाटणे लिपिड परऑक्सिडेशन, सुकणूमधील खालावलेली ओंटीऑक्सिडंट प्रक्रिया आणि सुनयनीकांची क्रियाशीलता नियंत्रित करणाऱ्या जनुकांची बदललेली अभिव्यक्ती.



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RECOMMENDATIONS

XVII JOINT ANIMAL SCIENCE RESEARCH COUNCIL MEET 2018-19

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR







Recommendations of the 18th Joint Animal Science Research Council 2019-20



MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR

RECOMMENDATIONS
XVII JOINT ANIMAL SCIENCE RESEARCH COUNCIL MEET 2018-2019

भाविष्यातील संभावित प्रयत्न समन्वया अंतर्गत लागूण्यासाठी रत्नजलमधील डॉ.टी. मुन्दायिन संपेरकाया स्तराचे नियुक्त प्रमाण 200 पिक्वो ग्रॅ./मी.सी. असावे.

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.

शिफारस : शेळीपालकांमध्ये माहितीचा प्रभावी प्रसार होणेकरिता पशुविज्ञान व पशुसंवर्धन विस्तार शिक्षण विभाग, नागपूर पशुवैद्यक महाविद्यालयाने माहिती तंत्रज्ञानाचा वापर करून विकसित केलेले 'शेळी पालन' हे ऑनलाईन आधारित मोबाईल एप्लिकेशन अॅप शेळीपालकांनी वापरण्याची शिफारस करण्यात येते.

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" (Kukut Palan) as ICT tools for the effective dissemination of information among the poultry farmers is recommended for use by the Poultry Farmers.

शिफारस : शेळीपालकांमध्ये माहितीचा प्रभावी प्रसार होणेकरिता पशुविज्ञान व पशुसंवर्धन विस्तार शिक्षण विभाग, नागपूर पशुवैद्यक महाविद्यालयाने माहिती तंत्रज्ञानाचा वापर करून विकसित केलेले 'कुक्कुट पालन' हे ऑनलाईन आधारित मोबाईल एप्लिकेशन अॅप कुक्कुटपालकांनी वापरण्याची शिफारस करण्यात येते.

19. Project Title : Development of 'Goat Vision' - 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, KNP CVS, 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.

शिफारस : शेळीपालकांमध्ये आरोग्य व आहार व्यवस्थापन पद्धतीबाबत माहितीचा शेळीपालकांमध्ये प्रभावी प्रसार होणेकरिता पशुविज्ञान व पशुसंवर्धन विस्तार शिक्षण विभाग, कान्हापारवैद्यक विद्यालयाने माहिती तंत्रज्ञानाचा वापर करून विकसित केलेले 'गोव्हिजन' हे ऑनलाईन आधारित मोबाईल एप्लिकेशन अॅप शेळीपालकांनी वापरण्याची शिफारस करण्यात येत आहे.

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MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR

Recommendations of the 18th Joint Animal Science Research Council 2019-20

10. Project Title : Extending the shelf life of paneer coated in edible film treated with essential oils.

Investigators : S. Karunamay and S.R. Badhe

Name of the college : Mumbai Veterinary College, Mumbai.

Recommendation : Carboxy methyl cellulose (CMC) and starch-based film with 0.5% of oregano essential oil is recommended as edible packaging material for paneer to increase the shelf life of paneer by three days at refrigeration temperature (4±1°C).

शिफारस : कार्बोक्सी मिथाईल सेल्युलोज आणि 0.5 टक्के ओरिगानो पानातील आवश्यक तेलाचा उपयोज करून स्टार्च-आधारित तयार केलेले खाद्य वेष्टना साहित्य तापमानात (4±1 °से) पनीर 3 दिवस अधिक टिकवून देते, म्हणून पनीर साठवण्यासाठी हे वेष्टन वापरण्याची शिफारस करण्यात येते.

11. Project Title : Development of android based mobile application on dairy management practices and its effectiveness for dairy farmers.

Investigators : Nitin Kumar Mishra, S.P. Landge, V.V. Banthiya, S.S. Chopde, A.P. Dhok and 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 Dairy Management Practices- "Dairy Farming" (Dugdha Vyavasaya) is recommended as an ICT tool for effective dissemination of information among the dairy farmers.

शिफारस : दुग्ध उत्पादक शेळीपालकांमध्ये माहितीचा प्रभावी प्रसार होणेकरिता पशुविज्ञान व पशुसंवर्धन विस्तार शिक्षण विभाग, नागपूर पशुवैद्यक महाविद्यालयाने माहिती तंत्रज्ञानाचा वापर करून विकसित केलेले 'दुग्धव्यवसाय' हे ऑनलाईन आधारित मोबाईल एप्लिकेशन अॅप दुग्ध उत्पादक शेळीपालकांनी वापरण्याची शिफारस करण्यात येते.

12. Project Title : Effect of electron beam irradiation on microbiological qualities of modified atmospheric packaged raw chicken stored at refrigeration temperature.

Investigators : P.A. Jangale, R.J. Zende, A.M. Patarkar and V.M. Vaidya

Name of the college : Mumbai Veterinary College, Mumbai.

Recommendation : Electron beam irradiation at the dose rate of 3.0 kGy for raw chicken packaged using modified atmospheric packaging is recommended for the shelf life extension upto 20 days at refrigeration temperature.

शिफारस : कुक्कुट मांस नमुन्यांची सुधारित वातावरणीय पॅकेजिंगमधील शीत तापमानात साठवणूक शकता 20 दिवसांपर्यंत भाविष्यासाठी इलेक्ट्रॉन विकिरणकरणाचे 3.0 किलोग्रेडे हे प्रमाण वापरण्याची शिफारस करण्यात येत आहे.

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