

1.

Research:

List of Research Projects: Completed & Ongoing

Sr. No.	Title of the Project	Name of PI/ Major Advisor/ Research Worker	Funding Agency	Total Cost of the project (Rs in Lakh)	Extra-mural (Funding agency)/ Intra-mural	Status (Completed/Ongoing)	Duration
1.	Role of early chick nutrition on growth performance gastrointestinal and immune competence in commercial broiler chicken	Dr. M.M. Kadam	RKVY, State Government of Maharashtra, Mumbai	14.00	Extra-mural	Completed	3 year (2009-2012)
2.	Sustainable tribal livelihood through scientific backyard poultry rearing in Gadchiroli district of Maharashtra	Dr. M.M. Kadam	Indian Council of Agricultural Research, Pusa, New Delhi	33.50	Extra-mural	Completed	1 year (2013-2014)
3.	Establishment of Training and Demonstration Centers on Commercial Poultry Framing Under MAFSU	Dr. M.M. Kadam	RKVY, State Government of Maharashtra, Mumbai	253.57	Extra-mural	Completed	3 year (2014-2017)
4.	Empowerment of Tribal population through improved poultry rearing practices in Gadchiroli District of Maharashtra	Dr. M.M. Kadam	Indian Council of Agricultural Research, Pusa, New Delhi	4.00	Extra-mural	Completed	1 year (2015-2016)

1. List of Private Agency Projects:

Sr. No.	Title of the Project	Name of PI/ Major Advisor/ Research Worker	Funding Agency	Total Cost of the project (Rs in Lakh)	Extra-mural (Funding agency)/ Intra-mural	Status (Completed/Ongoing)	Duration
1.	To study the efficacy of AV/NNcC/17 on broiler growth performance	Dr. M.M.Kadam	Ayurved Baddi (H.P.)	2.00	Extra-mural	Completed	1 year

	immunity and gut development						
2.	Efficacy Evaluation studies of some herbal product on growth productivity and egg cell quality in layer	Dr. M.M.Kadam	Ayurved Baddi (H.P.)	0.45	Extra-mural	Completed	1 year
3.	Efficacy of evaluation of herbal products in layers	Dr. M.M.Kadam	Ayurved Baddi (H.P.)	1.00	Extra-mural	Completed	1 year
4.	Efficacy of NICOMETH For replacing synthetic methionine in commercial broiler diet	Dr. M.M.Kadam	Ayurved Baddi (H.P.)	0.37	Extra-mural	Completed	1 year
5.	Effect of herbal preparation (AV/HLP/16) on egg yolk cholesterol and serum profile commercial layers	Dr. M.M.Kadam	Piramal Health Care, Mumbai	0.43	Extra-mural	Completed	1 year
6.	Effect of exogenous emulsifier on growth performance in commercial broilers	Dr. M.M.Kadam	Polchem, Pune	0.45	Extra-mural	Completed	1 year
7.	To assess the binding efficacy of various commercial mycotoxin binders in the broilers	Dr. M.A.Gole	Jubilant life Sciences, Noida	1.61	Extra-mural	Completed	1 year
8.	Performance of Broiler Chicken fed bacillus based	Dr. M.M.Kadam	Evonik Pvt.ltd, Singapore	0.73	Extra-mural	Completed	1 year

	probiotic with antibiotic under summer stress condition						
9.	Evaluation of bacillus species as potential probiotic in clostridium perferences challenged commercial broiler chicken	Dr. M.M.Kadam	Evonik Pvt.ltd,Sin gapore	3.00	Extra-mural	Completed	1 year
10.	Efficacy of herbal supplement on egg production	Dr. M.M.Kadam	Ayurved Baddi (H.P.)	1.00	Extra-mural	Completed	1 year
11.	Feed additive effect of Curcumin on growth performance in commercial broiler chicken	Dr. M.M.Kadam	Ramon vila lab, karizoo SA Montbui, Barcelona (spain)	1.57	Extra-mural	Completed	1 year
12.	Evaluation of lysoombic as potential feed supplements for growth performance and good development in broiler birds	Dr. M.M.Kadam	Alembic Pharmaceu tical, Ltd. Mumbai	3.45	Extra-mural	Completed	1 year
13.	Role of Betaine Supplementation na Growth Performance Transportation stress and shrinkage loss in Broilers during Summer Season	Dr.M.M.Kadam	Optima Life Science, Pune	4.72	Extra-mural	Completed	1 year
14.	Comparative Pharmacokinetic stady of Azithromycin alone and in combination with Bromhexine in Broiler chicken.	Dr.M.M.Kadam	Vetoquinol India Animal Health Pvt. Ltd	5.48	Extra-mural	Completed	1 year
15.	Comparative evaluation of herbal	Dr. M.M.Kadam	Avitech Nutrition	5.05	Extra-mural	Completed	1 year

	and synthetic choline chloride fed commercial broilers		Pvt. Ltd. Gurugram, Haryana				
16.	Effect of different source of cotton seed extruction feeding on egg production and its quality	Dr. D.B. Bhaisare	Noveltech Feeds Pvt. Ltd. Hyderabad , Telangana	1.49	Extra-mural	Completed	1 year
17.	Evaluation of zoo technical and economic performance of broilers fed aviance	Dr. M. M. Kadam	Techna India Pvt Ltd New Delhi	10.00	Extra-mural	Completed	1 year

2. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers

3. Thesis:

Master:

Name of Department :				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Dr.V.N.Pal	Replacement of maize by sorghum (jowar) in layer chick mash	2004	Dr.S.M.Mandlekar
2	Dr.S.S.Jadhav	Effect of supplementation of Ashwagandha and ascorbic acid (as an anti stress agent)on broiler performance during summer weather	2005	Dr.S.M.Mandlekar
3	Dr.R.C.Shendre	Modulation of cholesterol concentration in chicken egg through dietary herbal supplementation of allium sativum in commercial layers	2006	Dr.S.M.Mandlekar

4	Dr.A.B.Rajput	Effect of vitamin A vitamin C vitamin E and levamisole on performance of broilers	2007	Dr.B.R.Kolte
5	Dr.J.M.Chandan khede	Modulation of cholesterol concentration in egg through dietary supplementation of organic chromium in commercial layers	2008	Dr B.R.Kolte
6	Dr.M.K.Mendhe	Effect of antibiotic and multivitamins administration at they old stage of growth	2009	Dr.M.M.Kadam
7.	Dr.V.M.Khandan gle	Effect of dietary calcium level on the performance of white leghorn layers at low Phosphorus diet	2010	Dr.M.M.Kadam
8.	Dr.A.Mishra	Comparative study of exogenous emulsifier or lipase on growth performance of commercial broiler chicken	2011	Dr.M.M.Kadam
9.	Dr.S.Tandekar	Study of protein requirements in commercial cockrels	2012	Dr.M.A.Gole
10.	Dr.P.M.Walke	Effect of hard water on egg production and its quality characteristics of commercial white Leghorn chicken	2012	Dr.M.A.Gole
11.	Dr. M.Talib	Comparative study of hatchling supplements (fruits) on growth performance of commercial broilers chicken during summer season	2012	Dr.M.A.Gole
12.	Dr. A.S.Shambhark ar	Effect of supplementation of glycerol through drinking water on performance of commercial broilers	2012	Dr.M.A.Gole
13.	Dr. J.S.Mahore	Study of energy levels in the diet of commercial cockrel	2013	Dr.M.A.Gole
14.	Dr. D.A.Ramteke	Partial replacement of soyabean meal with roasted guar korma (Cyamopsis	2013	Dr.M.M.Kadam

		tetragonaloba) in broiler chicken diet		
15.	Dr. D.S.Koli	Evaluation of bacillus species as potential probiotic in clostridium perfringens challenge commercial boiler chicken	2014	Dr.M.M.Kadam
16.	Dr. A.P.Yeskal	Partial replacement of soyabean meal with fenugreek trigonella foenum graceum in broiler chicken diet	2015	Dr.M.M.Kadam
17.	Dr. V.R.Ade	Comparative performance of naked neck and normally feathered commercial broiler chickens during summer season	2016	Dr.M.M.Kadam
18.	Dr. P.H. Murade	Post hatch chick gut health through competitive exclusion of bacteria against pathogenic ecoli challenge in commercial broiler chicken	2017	Dr.M.M.Kadam
19.	Dr. Priyanka Kamble	Nutrient requirement of kadaknath chicken during starting phase (0 to 6 weeks) to optimise the growth performance	2018	Dr.M.M.Kadam
20.	Dr. Pratik Rathod	Nutrient requirement of kadaknath chicken during finisher phase (7 to 12 weeks) to optimise the growth performance	2018	Dr.M.M.Kadam
21.	Dr. Ranvir Avinash	Nutrient requirement of kadaknath hens to optimise egg production during late laying phase (51 to 72 weeks)	2020	Dr.M.M.Kadam
22.	Dr. Akshay Fuke	Evaluation of lysozyme as potential feed supplement for growth performance and gut development in broiler birds	2020	Dr.M.M.Kadam

23.	Dr. Shubham Gurve	Expediency of yeast derived beta glucan and Mannanligosaccharide on performance and immune modulation in broilers	2021	Dr M.M.Kadam
24.	Dr. Siddharth Pawar	Evaluation of immune response against New castle disease using egg Yolk dried filter paper and newspaper blood spot technique in poultry	2021	Dr.M.M.Kadam
25.	Dr. Rushikesh Vhanale	Protein and energy requirement of native cross colour chicken for optimum growth performance and economization of diet for meat purpose	2022	Dr.M.M.Kadam
26.	Dr. Kirti Chitro	Role of Betaine supplementation on growth performance transportation stress and shrinkage loss in broilers during summer season	2022	Dr.M.M.Kadan
27.	Dr. Gajanan Nagre	Influence of increasing broiler slaughter weight on meat quality and economics	2023	Dr.M.M.Kadan
28.	Dr. Ashwini Kondhare	Effect of dietary supplementation of cytosome conjugated cinnamaldehyde on performance of broiler chicken	2023	Dr.M.M.Kadam
29.	Dr. Harshal Bokade	Influence of slaughter age on performance and meat quality of Ross broiler chicken	2024	Dr.M.M.Kadam
30.	Dr. Om K. Pawar	Effect of dietary supplementation of coated sodium butyrate on performance and gut health of commercial laying hens	2024	Dr. D.B. Bhaisare

31.	Dr. Balram Chouhan	Evaluation of essential oil-based microemulsion through water as a replacement of dietary antibiotic growth promoter in broilers	2025	Dr.M.M.Kadam
32.	Dr. Parimal K. Parasawar	Effect of supplementation of Guanidinoacetic Acid (GAA) in low-energy diets of broilers	2025	Dr. D.B. Bhaisare

Doctoral:

Name of Department:				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	Dr. Pinky Roy	Welfare behaviour and performance of laying hens at different stocking density, flock size and in enhanced conventional California cage	2021	Dr. M.M. Kadam

4. Research Papers Published:

List of Research Publications:

Sr. No	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAAS Rating, if any
1	Darshana B. Bhaisare , D. Thyagarajan, R. Richard Churchil and N. Punniamurthy	2016	In-vitro antimicrobial efficacy of certain herbal seeds essential oils against important poultry microbes	Indian Journal of Animal Research	50 (4): 561-564	6.40
2	M.V. Dhumal, D.B. Bhaisare , M. G. Nikam and Shivi Maini	2017	Effect of Herbal Amino Acids in Improving Growth and Performance in Broiler Chicken	International Journal of Livestock Research	7 (1):43-53	4.31

3	J.J. Rokade, S.K. Bhanja, A.S. Shinde, Sajjad, D.B. Bhaisare and A.B. Mandal	2017	Evaluation of aspirin (ASA) in broiler chicken during hot dry summer using zoo technical, molecular, and physio-biochemical tools	Indian Journal of Animal Research	51 (1): 97-104	6.40
4	S.L. Gupta, Pramod K. Tyagi, A.B. Mandal, Praveen K. Tyagi, J.J. Rokade, D.B. Bhaisare and S. Gogoi	2017	Apparent Metabolizable Energy Value of Rice Based Dry Distiller's Grains with Solubles (DDGS) with or without Enzyme Supplementation in Cockerels	Animal Nutrition and Feed Technology	17: 493-499	5.00
5	P.B. Aswathi, S.K. Bhanja*, Puneet Kumar1, T.S. Shyamkumar, Manish Mehra, Darshana B Bhaisare and Pradeepta Kumar Rath	2018	Effect of acute heat stress on the physiological and reproductive parameters of broiler breeder hens – A study under controlled thermal stress	Indian Journal of Animal Research	DOI: 10.18805/ijar.B-3641	6.40
6	Pinky Roy*, M M Kadam, S K Bhanja, N V Kurkure, D B Bhaisare , J J Rokade	2020	Welfare and performance of commercial laying hens in conventional California cages at different stocking densities	Indian Journal of Animal Sciences	90 (9): 63–67	6.20
7	Pinky Roy, Mukund M. Kadam , Archana R. Patil Jaydip J. Rokade, Subrat Kumar Bhanja,	2021	Modulation of Stocking Densities in California Cages to Enhance the Production and Welfare of Commercial Laying Hens	Journal of Animal Research	11 (1): 01-03	4.78

	Darshana Bhisare and Siddharth B. Pawar					
8	P Roy, M M Kadam , J J Rokade, S K Bhanja and D B Bhisare	2022	Development of innovative scorecard for assessment of welfare and production performance of commercial layer birds reared at	Indian Journal of Animal Sciences	92 (5): 611–617	6.20
9	P Roy, M M Kadam , D B Bhisare , J J Rokade and S K Bhanja	2022	Comparative effect of stocking density and flock size on performance and egg quality of laying hens in conventional and furnished California cages	Indian Journal of Animal Sciences	92 (12): 1456–1461	6.20
10	P Roy, M M Kadam , D B Bhisare , S K Bhanja and J J Rokade	2022	Effect of different stocking densities and flock size on Welfare and behavior of White Leghorn layers in conventional California cages	Indian Journal of Poultry Science	57(2): 157-163	5.30
11	S.S. Gurve, M.M. Kadam , D.B. Bhisare , A.R. Patil, N.V. Kurkure, and S.A. Dongre	2022	Expediency of yeast derived β -glucans and mannan oligosaccharide on performance and immune modulation in broilers	Indian Journal of Poultry Science	57(1): 53-57	5.30
12	P.B. Aswathi, S.K. Bhanja*, Darshana B. Bhisare , Manish Mehra, Akshat Goel	2022	Effect of acute heat stress on the physiological parameters of broiler breeder roosters- A study	Indian Journal of Poultry Science	57(1): 65-68	5.30

	and Pradeepta Kumar Rath		under controlled thermal stress			
13	K.E. Chitrio, M.M. Kadam , M.A. Gole, D.B. Bhaisare , A.R. Patil, S.V. Chopde	2023	Role of Betaine Supplementation on Growth Performance, Transportation Stress and Shrinkage Loss of Broilers during the Summer Season	Asian Journal of Dairy and Food Research	DR-1943 [1-5]	5.44
14	M.M. Kadam , A. Srivastava, F. Chaudhari, D.B. Bhaisare , A. Kondhare and G.K. Nagare	2023	Evaluating the efficacy of PhyCholine as a dietary replacement for synthetic choline chloride in commercial broiler chickens	Indian Journal of Poultry Science	58(3): 267-272	5.30
15	G.K. Nagre, M.M. Kadam , D.B. Bhaisare , A.R. Patil, Y.P. Gadekar and K.S. Rathod	2024	Higher slaughter weight affects broiler meat quality and bird welfare	Indian Journal of Animal Sciences	94 (5): 452-459	6.20
16	A.R. Fuke, M.M. Kadam , D.B. Bhaisare , A.R. Patil, J.J. Rokade and A.B. Ranvir	2024	Evaluation of lysozyme as potential alternative for replacement of antibiotic as feed supplement for growth performance in broiler birds	Indian Journal of Poultry Science	59(1): 7-10	5.30
17	A.A. Kondhare, M.M. Kadam , D.B. Bhaisare , S.V. Shinde, S.V. Chopade and M.A. Gole	2024	Influence of Dietary Phytosome Conjugated Cinnamaldehyde Supplementation on Performance, Immune Status and Gut Health in Broiler Chicken	Animal Nutrition and Feed Technology	24: 333-345	5.00

18	G.K. Nagre, M.M. Kadam* , D.B. Bhaisare , A.R. Patil, Y.P. Gadekar and K.S. Rathod	2024	Effect of increasing broiler slaughter weight on growth performance, economics, immunity and chemical composition of meat	Indian Journal of Poultry Science	59(2): 177–182	5.30
19	A.A. Kondhare, M.M. Kadam* , D.B. Bhaisare , S.V. Chopade, A.R. Patil and G.K. Nagre	2024	Efficacy of dietary phytosome conjugated cinnamaldehyde supplementation on performance and economics in broilers	Indian Journal of Poultry Science	59(2): 117–121	5.30
20	Jaydip Rokade, Abhijeet Cham pati, Nagesh Sonale, Prasad Wadajka r, Monika Madhe shwaran, Darshana Bhai sare and Ashok Kumar Tiwari	2024	The cage free egg sector: Perspectives of Indian Poultry Producers	Frontiers in Veterinary Science	11:144258 0	8.60
21	Pranav P. Deshmukh, Suresh G. Jadhav, Sonali D. Borkar, Darshana B. Bhaisare , Mukund M. Kadam , Pratik G. Kokate and	2025	Morphological and molecular identification of Eimeria spp of broiler in Central India	International Journal of Advanced Biochemistry Research	9(3):353- 357	5.29

	Mahima R. Narawade					
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List of Marathi and Popular articles published:

Sr. No.	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1.	Dr. Darshana B. Bhisare, Dr. Sameer Majumdar and Dr. Ambadas Madkar	2015	Pillanche Brooding Wyawasthapan Mahatwache...	Agrowan. 22.03.2015	12
2.	Dr. Manik Dhumal and Dr. Darshana B. Bhisare	2016	Parasabagetil Kombadyanche Khadya, Aarogya Wyawasthapan	Agrowan News Paper 19.01.2016	12
3.	Dr. Darshana B. Bhisare, Dr. Jaydip Rokade	2017	Atitapamanacha Disato Kombdyanwar Parinam	Agrowan News Paper, January 2017	12
4.	Darshana Bhisare, Sneh Lata Gupta and Jyoti Yadav	2018	Samekit Battakh sah Matsya Palan	Poultry Manch September 2018	Vol.4(9), pp: 46-48
5.	Sneh Lata Gupta, Jyoti Yadav, Darshana Bhisare and Vinay Singh	2018	Kukkutpalan: Ek Labhakari Wyawasay	Poultry Manch September 2018	Vol.4(9), pp: 40-45
6.	Dr. Mayura Gole, Dr. Mukund Kadam and Dr. Darshana Bhisare	2022	Shaswat Upajivika w anna surakshesathi pashuvaidyakachi samajatil bhumika	Godawa Sheticha March 2022	Pp:76-77
7.	Dr. Darshana Bhisare, Dr. Mukund Kadam and Dr. Mayura Gole	2022	Kombadyamdhil bahya parajiwi: olakh w upachar	Godawa Sheticha August 2022	Pp: 69-70
8.	Dr. Balram Chouhan, Dr. Darshana Bhisare and	2023	Mansoon me kukkut farm ka prabandhan	Krushhi Kumbh August 2023	Volume 3 Issue 3, Pp: 109-111

	Dr. Parimal Parasawar				
9.	Dr. Om Pawar, Dr. Darshana Bhaire, Dr. Mukund Kadam, Dr. Harshal Bokade	2023	Kukkutpalanasathi Sankarit Jati	Agrowan News Paper, 1 November 2023	Pp: 12
10.	Dr. Om Pawar, Dr. Darshana Bhaire, Dr. Mukund Kadam, Dr. Harshal Bokade	2023	Kukkutpalanasathi Satpuda, Shrinidhi, Kaveri	Agrowan News Paper, 7 November 2023,	Pp: 10
11.	Dr. Harshal Bokade, Dr. Darshana Bhaire, Dr. Mukund Kadam and Dr. Om Pawar	2023	Murgiyonki nayi vikasit nasle	Krushikumbh November 2023	Volume 3 Issue 6, Pp: 80-87
12.	Dr. Om Pawar, Dr. Darshana Bhaire, Dr. Mukund M. Kadam and Dr. Harshal Bokade	2024	Kombadyatil Pesti Vent Aajar	Agrowan News Paper, 30 January 2024	Pp:10
13.	Dr. Om Pawar and Dr. Darshana Bhaire, Dr. Mukund M. Kadam and Dr. Harshal Bokade	2024	Andi denarya Pakshyamadhil Utpadan Nirdeshank	Krushiparv, February 2024	Pp: 7-8
14.	Dr. Gouri Deshmukh, Dr. Alka Sawarkar, Dr. A.P. Somkuwar and Dr. Darshana Bhaire	2024	Jaswand Vanaspatiche upacharatmak Upayog	Godawa Usacha, March 2024	Pp: 32-34
15.	Dr. Parimal Parasawar, Dr. Darshana Bhaire and	2024	Kombadyansathi Khadya Nirmiteche Tantra	Agrowan News Paper, 24 April 2024	Pp: 12

	Dr. Balram Chouhan				
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Technical Articles:

1	Dr. Darshana B. Bhaisare , Dr. Snehlata Gupta, Dr. Ranjana Sachan	2017	Thermoregulation and Heat Stress in Poultry	Poultry Line January 2017	17
2	Dr. Mukund Kadam , Dr. Mayura Gole, Dr. Darshana Bhaisare	2022	Transformation of Backyard to Commercial Poultry Integration Model	Hind Poultry, January 2022	Volume XX, pp:37-41
3	Dr. Laveena Sambhawani, Dr. Prasad Wadajkar and Dr. Darshana Bhaisare	2024	Egg – Wholesome food	Trends in Agriculture Science, April 2024	Volume 3 Issue 4 Pp:1733-1736

5. Research Recommendations

Sr. No.	1.
Year	2024-25
Project Title	Influence of slaughter age on performance and meat quality of Ross broiler chicken
Investigators	Harshal Bokade, M.M. Kadam and D.B. Bhaisare
Recommendations	Considering the meat quality, immunity and welfare for economic Ross broiler production, it is recommended to rear the Ross broiler birds up to 35 days of age

Sr. No.	2.
Year	2024-25
Project Title	Dietary inclusion of rice DDGS supplemented with protease through different growth phases in broiler chicken
Investigators	G.A. Butle, A.P. Dhok, S.V. Chopde, M.R. Jawale, B.N. Ramteke, P.M. Sonkusale and D.B. Bhaisare

Recommendations	It is recommended to include rice DDGS in broiler diet at 20 percent level during starter and finisher phase supplemented with protease enzyme (10000EPU) @300g/ton of feed for economical broiler production
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Sr. No.	3.
Year	2021-22
Project Title	Evaluation of immune response new castle disease using egg yolk dried filter paper and newspaper blood spot technique in poultry
Investigators	Dr. S.B. Pawar and Dr. M.M. Kadam
Recommendations	Whatman filter paper or news paper smeared with blood is a suitable alternative to test post vaccinal immune response against Ranikhet disease in poultry birds.

Sr. No.	4.
Year	2021-22
Project Title	Evaluation of immune response new castle disease using egg yolk dried filter paper and newspaper blood spot technique in poultry
Investigators	Dr. S.B. Pawar and Dr. M.M. Kadam
Recommendations	In laying birds, egg yolk sampling is good alternative technique than methods using Whatman filter paper/newspaper dipped in blood or blood collection to test post vaccinal immune response against Ranikhet Disease

6. MOU signed by the Colleges

Sr. No.	MOUS Between	Date of signing	Place	Duration
	Party – 1 & Party - II			
1.	Nagpur Veterinary College and CSRI-Central Institute of Medicinal and Aromatic Plants (CIMAP), Lughnow	6.02.2024	Nagpur Veterinary College Nagpur	5 years