

Research:

1. 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 (Comple ted/On going)	Duration
1	Demonstration and training programme in Commercial quail production For rural women empowerment in Parbhani district of Maharashtra state	Dr.M.V.D humal	DBT, New Delhi	Rs.12.41 laks	Extramural	Comple ted	3 years
2	Sustainable rural livelihood security through integrated approach in Hingoli & Nanded districts of Maharashtra state	Co -PI Dr.M.G.Ni kam	NAIP funded	7.25 crore	Extramural	Comple ted	3 years
3	Sustainable income generating Goat rearing for rural women empowerment in Parbhani District of Maharashtra State	Dr. M.V.Dhumal	DBT	22.04 lakhs	Extramural	Comple ted	3 years
4	Establishment of training and demonstration	Co-PI	RKVY	2.55 crores	Extramural	Comple ted	3 years

	centre on commercial poultry farming under MAFSU	Dr.M.G.Nikam					
5	Empowerment of tribal population through improved poultry rearing practices in Gadchiroli District of Maharashtra state	Co-PI Dr.M.G.Nikam	TSP	40.0 lakhs	Extramural	Completed	3 years
6	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 of Maharashtra	Co-PI Dr.M.G.Nikam	DST	70.00 lakhs	Extramural	Completed	3 years
7	Strengthening of life science and biotechnology education and training at undergraduate level under star college scheme	Co-PI Dr. M.G.Nikam	DBT, New Delhi	55.00 lakhs	Extramural	Completed	3 years

2. 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	Early Nutrition for chicks: AV/NNC/ 17 and its impact on growth performance	Dr.M.G.Nikam	Ayurvet Ltd	0.40 lakhs	Extra-mural	Completed	6 months
2	Comparative study of herbal and synthetic vitamin E on the performance of the broilers	Dr.M.G.Nikam	Polchem Hygiene Lab Ltd	0.5 lakhs	Extra-mural	Completed	6 months
3	Effect of induced moulting on body weight, egg production performance and livability of White leghorn layers.	Dr.M.G.Nikam	COVAS, Parbhani	-----	Intra-mural	Completed	6 months
4	Comparative studies on performance of	Dr.M.V.Dhumal	COVAS, Parbhani	-----	Intra-mural	Completed	6 months

	broilers supplemented with sodium bicarbonate after adjusting dose level through feed						
5	Comparative efficacy of AV/LAP/19 on performance and meat quality attributes in broilers.	Dr.M.V.Dhumal		0.55 lakhs	Extra-mural	Completed	6 months
6	Effect of probiotics on performance of broilers supplemented through feed & water.”	Dr.K.K.Khose		0.43 lakhs	Extra-mural	Completed	6 months
7	Effect of different herbal products supplementation through layer ration on egg production	Dr.M.G.Nikam		3.11 lakhs	Extra-mural	Completed	6 months

	n and its quality						
8	Effect of 5-ALA Premix (5-Amino Levulinic Acid) as feed supplement on performance, Hematological biochemical and Immune status of broilers	Dr.M.V.Dhumal		1.10 lakhs	Extra-mural	Completed	6 months
	Efficacy evaluation of supplementing Bio-Choline as a replacement to synthetic Choline chloride in poultry layer ration”	Dr.M.G.Nikam		3.11 lakhs	Extra-mural	Completed	6 months
9	Efficacy evaluation of supplementing bio Choline as a replacement to synthetic	Dr.M.V.Dhumal		1.60	Extra-mural	Completed	6 months

	Choline in broiler diet.						
10	Efficacy of Herbal guts function modulator for improving health and performance of broilers.	Dr.M.V.Dhumal		1.86	Extra-mural	Completed	6 months
11	Comparative study on effect of 5 ALA (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 a feed supplement through water/feed on performance, hematological, biochemical and immune	Dr.M.V.Dhumal		3.05	Extra-mural	Completed	6 months

	status of broilers.						
12	Effect of nano particles mono laurine and mono propionine supplemented in diets on growth, gut health and serum mineral profile of broilers.	Dr.M.G.Nikam		2.51	Extra-mural	Completed	6 months
13	Evaluation of Effect of Magacal on egg and laying characteristics of late layers”,	Dr.M.G.Nikam		1.35	Extra-mural	Completed	6 months
14	Efficacy of nutritional performance enhancer supplemented in diet on growth, gut health and serum profile of broilers	Dr.K.K.Khose		1.73	Extra-mural	Completed	6 months

15	Comparative efficacy evaluation of phytogenic products on maturity, flock uniformity and peak egg production of commercial layers	Dr.M.G.Nikam		1.99	Extra-mural	Completed	6 months
16	Efficacy evaluation of Dozliv and Renonic products on growth performance, serum profile and histopathology in broilers	Dr.K.K.Khose		1.91	Extra-mural	Completed	6 months
17	Comparative efficacy of some herbal liver supplements at improving performance and health of commercial broilers	DR.K.K.Khose		1.98	Extra-mural	Completed	6 months

18	Effect of dietary supplementation of capcin on performance, gut health, anti inflammatory response, immune response and economics of broiler production exposed to heat stress	Dr.K.K.Khose		5.90	Extra-mural	Completed	6 months
19	Effect of supplementation of thermoguard on growth performance and characteristics of broilers during summer season	Dr.M.G.Nikam		2.64	Extra-mural	Completed	6 months
20	Efficacy evaluation of various herbal products supplemented in diet on production performance	Dr.K.K.Khose		9.46	Extra-mural	Completed	12 months

	ce ,egg quality parameter s, immune response and economics of egg productio n in commerci al layers						
--	--	--	--	--	--	--	--

3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers

4. Thesis:

Master:

Name of Department :				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Kute Anand Radhakrishna	Comparative study on effect of multienzyme preparations on performance of broilers	2004	Dr.M.F.Siddiqui

2	Mungal Sheshrao Baliram	Effect of different energy sources on performance of broilers	2005	Dr.M.F.Siddiqui
3	Dixit Vikram Akrur	Comparative studies on effect of water and feed acidifiers on performance of broilers	2006	Dr.M.V.Dhumal
4	Awarde Prashant Madhavrao	Comparative studies on use of multienzymes through drinking water and feed in broilers	2007	Dr.M.F.Siddiqui
5	Debbarma Nibash	Comparative performance of broilers under different stress conditions with antistress preparation	2008	Dr.M.F.Siddiqui
6	Singh Vinod Kumar	Studies on efficacy of different feed acidifiers on performance of broiler birds challenged with infection	2008	Dr.M.V.Dhumal
7	Surjuse Prashant Dadarao	Studies on performance of broilers supplemented with sodium bicarbonate at different levels through feed	2009	Dr.M.V.Dhumal
8	Lad Ranjeet Ghanshyam	Comparative studies on performance of broilers supplemented with	2010	Dr.M.V.Dhumal

		various antioxidants through feed		
9	Miss.Patil Shivali Rajasheb	Studies on performance of broilers supplemented with antioxidant and selenium through feed	2011	Dr.M.V.Dhumal
10	Nagargoje subhash Bhagwat	Studies on performance of broilers and quality characteristics of fresh and stored meat as influenced by crude soya lecithin	2012	Dr.M.V.Dhumal
11	Ingle Vikas Dyanoba	Comparative study of synthetic pigment and marigold flower petals through feed on production and quality of chicken eggs with and without antioxidants	2013	Dr.M.V.Dhumal
12	Raut Siddharth Gangadhar	Studies on super dosing of phytase enzyme on performance of broilers	2014	Dr.M.V.Dhumal
13	Marewad Rajeev Digambar	Studies on broilers performance at different stocking densities	2015	Dr.M.V.Dhumal
14	Koli Krishan Subhash	Studies on performance of broilers and quality characteristics of bedding material with	2015	Dr.M.V.Dhumal

		use of different litter material		
15	Gade Dattu Shripati	Effect of different levels of xylanase enzyme on performance of broilers	2016	Dr.M.V.Dhumal
16	Miss.Kundur Priyanka Rajendra	Studies on performance of broilers meat quality and immune status as influenced by supplementation of essential oils	2016	Dr.M.V.Dhumal
17	Pashamwar Suresh Linganna	Effect of dietary supplementation of guar meal with β -mannanase on performance of broilers	2017	Dr.M.G.Nikam
18	Sampate Aniket Shirish	Studies on comparative effect of essential oils on performance of broilers	2018	Dr.M.G.Nikam
19	Asrar Ahmed Ashfaque Rehman	Effect of combination of different organic acids on performance of broilers as alternative to antibiotic growth promoter	2018	Dr.M.V.Dhumal
20	Kushal Taye	Effect of supplementation of β -glucans and oligosaccharides on growth performance and immune status of broilers	2019	Dr.M.G.Nikam

21	Mane Abhijit Vishnu	Comparative study on various forms of trace minerals in diet on performance of broilers	2021	Dr.K.K.Khose
22	Kolageri Sanjeevkumar Dagauda	Effect of dietary supplementation of β -glucans and acidifier on growth performance and immune status of broilers	2022	Dr.M.G.Nikam
23	Adkine Akshay Changdeo	Effect of distiller's dried grains with solubles in diets on production performance and egg quality in layers	2023	Dr.K.K.Khose
24	Shaikh Javed	Comparative study of rapeseed meal and fermented rapeseed meal replacing soybean meal in diet on performance of broilers	2024	Dr.K.K.Khose
25	Patil Rushikesh Vidyanand	Comparative study of cinnamon powder and cinnamon oil on growth performance, gut health and meat characteristics of broilers	2024	Dr.M.G.Nikam

Doctoral:

Name of Department:		
----------------------------	--	--

Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
--	----	---	----	-----

5. Research Papers Published:
List of Research Publications:

Sr. No.	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAA S Rating, if any
1	A.S.Kadam M.G.Nikam	2009	Influence of herbal early chick nutritional supplement on the growth performance, serum biochemicals and immune response of broiler chicken.	<i>International J. Poult. Sci.</i>	8 (4): 349-354	
2	Dr.M.V.Dhumal Dr.K.K.Khose Dr.M.G.Nikam	2010	Effect of dietary supplementation of sodium bicarbonate on the performance of broilers	Indian Journal of Poultry Science	45(3):357-360	5.35
3	Dr.M.V.Dhumal Dr.K.K.Khose Dr.M.G.Nikam	2011	Effect of dietary antioxidants on performance, oxidation and immunocompetence in chickens	Indian Journal of Poultry Science	46(3):408-410	5.35
4	M.V.Dhumal, M.G.Nikam, R.D.Marewad and S.V. Deshmukh	2016	Influence of microbial Phytase on performance, calcium,	International Journal of	6 (11), 61-73	5.36

			phosphorus retention and economics of broiler chicken with or without feed matrix	Livestock Research		
5	M. G. Nikam, V. Ravinder Reddy, M. V. L. N. Raju, K. Kondal Reddy & J. Narasimha	2016	Effect of supplementation of non starch polysaccharide hydrolyzing enzymes on nutrient utilization and economics of broiler production.	International Journal of Agricultural Science and Research (IJASR)	6 (1) 227- 234	4.13
6	M. G. Nikam, V. Ravinder Reddy, M. V. L. N. Raju, K. Kondal Reddy & J. Narasimha	2016	Effect of dietary supplementation of non starch polysaccharide hydrolyzing enzymes on broilers reared on corn-soya standard and basal diets.	International Journal of Agricultural Science and Research	6 (3), 389-396	4.13
7	M. G. Nikam, V. Ravinder Reddy, M. V. L. N. Raju, K. Kondal Reddy & J. Narasimha	2016	Effect of supplementation of non-starch polysaccharide hydrolyzing enzymes on nutrient utilization and economics of broilers reared on sub-optimal diets	International Journal of Livestock Research	6 (5), 24-32	5.36

	M.V.Dhumal, M.G.Nikam, R.D.Marewad and S.V. Deshmukh	2016	Influence of microbial Phytase on performance, calcium, phosphorus retention and economics of broiler chicken with or without feed matrix	International Journal of Livestock Research	6 (11), 61-73	5.36
	R.D.Marewad.M.V.Dhumal & M.G.Nikam	2016,	Studies on different stocking densities on performance and economics of broiler chicken	International Journal of Agricultural Science and Research (IJASR)	Vol. 6, (6), 359- 370	3.53
	S.B.Nagargoje, M.V.Dhumal, M.G.Nikam and K.K.Khose	2016	Effect of Crude soya lecithin with or without lipase on performance and carcass traits meat keeping quality and economics of broiler chicken	International Journal of Livestock Research	6 (12), 46-54	5.36
	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 Agricultural Science and Research (IJASR)	Vol. 7, (1) , 43- 53	5.36

	M. G. Nikam, V. Ravinder Reddy, M. V. L. N. Raju, K. Kondal Reddy & J. Narasimha	2017	Effect of non starch polysaccharide hydrolyzing enzymes on nutrient utilization and economics of broilers reared on corn-soyabean meal based standard and sub-optimal diets	. International Journal of Agricultural Science and Research (IJASR)	7, (2), 172- 179	5.36
	D.S.Gade, M.V.Dhumal, M.G.Nikam and Dinesh Bhosle	2017	Influence of different levels of xylanase enzyme on performance, litter quality and economics of broiler chicken	International Journal of Agricultural Science and Research	7 (3), 73-82	4.13
	S.L.Pashamwar, M.G.Nikam, M.V.Dhumal, M.F.Siddiqui, P.V.Nandedkar and S.S.Gaikwad	2018	Effect of dietary supplementation of guar meal with β -mannanase enzyme on growth performance and economics of broiler birds	International Journal of Livestock Research	8 (5), 154-166	5.36
	M. G. Nikam, V. Ravinder Reddy, M. V. L. N. Raju, K. Kondal Reddy & J. Narasimha	2018	Assessment of dietary supplementation of non starch polysaccharide hydrolyzing enzymes on broiler diets based on	The blue cross book	Vol.37 Jan-June 2018 pp 38-48	3.5

			alternate protein meals by <i>In-Vitro</i> technique			
	M.V.Dhumal, M.G.Nikam, P.V.Nandedkar, S,B,Majee and Ravikanth Kotagiri	2018	Effect of herbal liver tonic (superliv) in improving growth performance nutrient utilization,carcass traits and economics of broiler chicken	International Journal of Livestock Research	8 (6), 266-278	5.36
	S. G. Raut, M. V. Dhumal, M. G. Nikam and K. K. Khose	2018	Influence of Super Dosing of Phytase Enzyme on Performance of Broiler Chicken	International Journal of Livestock Research	8 (7), 220-231	5.36
	Asrar Ahmed, M. V. Dhumal, M. G. Nikam, P. V. Nandedkar and V. S. Ingle	2018	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	5.36
	A. S. Sampate, M. G. Nikam, M. V. Dhumal,	2018 9 (7),	Effect of Ginger and Thyme Essential Oils as an Alternative to Antibiotic	International Journal of Livestock Research	9 (7), 32-39	5.36

	K. Y. Deshpande and S. S. Gaikwad	32-39	Growth Promoters on Performance, Immune Status and Economics of Broiler Production			
	Kundur Priyanka, M. V. Dhumal and M. G. Nikam	2018	Effect of Supplementation of Essential Oils on Performance of Broiler, Meat Quality and Immune Status	International Journal of Livestock Research	8(9), 338-353	5.36
	A S Sonawane, K Y Deshpande, S B Rathod, P R Shelke, M G Nikam and A U Gholve	2019	Effect of feeding Hedge lucerne (<i>Desmanthus virgatus</i>) on intake, growth performance and body condition score in growing osmanabadi goats	Indian Journal of Animal Sciences	89 (8) 881-884	6.17
	A V Mane, K K Khose, M G Nikam, M V Dhumal, G R Gangane and V K Munde	2022	Effect of organic and nanoparticle trace minerals replacing inorganic trace minerals in diets on growth performance, immune response and economics of broilers	Indian Journal of Animal Sciences	92 (4): 465–470,	6.17
	Kushal Taye,	2021	Influence of β -glucan, Mannan-oligosaccharides and their	International Journal of	11(11), 26-32	4.5

	M. G. Nikam, M. V. Dhumal, K. K. Khose		Combination on Performance of Broiler Chicken	Livestock Research		
	Kushal Taye1, M. G. Nikam, M. V. Dhumal, K. K. Khose, V. K. Munde and S. S. Gaikwad	2021	Studies on effect of mannan oligosaccharides, β -glucan and their combination on immune statuts and litter condition of broilers reared under hot climatic conditions	Internation al Journal of Livestock Research	11 (12), 29-36	4.5

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
01	Dr.M.G.Nikam Dr.R.R.Shelar	2007	Artificial Insemination in Chicken	Agro won	
02	Dr.M.G.Nikam Dr.M.V.Dhumal	2007	Clean milk production and care of udder in cow	Work shop on Mastitis organized by COVAS,Parbhani	
03	Dr.M.G.Nikam	2007	Turkey production – A new venture	Vaikalpik pashu chikitsa vigyan	
04	Dr.M.G.Nikam	2007	Culling of unproductive birds	Vaikalpik pashu chikitsa vigyan	
05	Dr.M.G.Nikam	2007	Bio-Security –A much needed aspect in Poultry Farming	Vaikalpik pashu chikitsa vigyan	
06	Dr.M.G.Nikam	2007	Vaccination in Poultry – major role to prevent Poultry Diseases	Vaikalpik pashu chikitsa vigyan	
07	Dr.M.G.Nikam	2007	Important viral diseases of Poultry and their preventive measure	Krishi Vyaspeeth	
08	Dr.M.G.Nikam	2007	Important points considered for	Krishi Vyaspeeth	

			successful vaccination in poultry		
09	Dr.M.G.Nikam	2007	Important bacterial diseases of poultry and their prevention	Krishi Vyaspeeth	
10	Dr.M.G.Nikam	2007	Avian Influenza and frequently asked questions	Krishi Vyaspeeth	
11	Dr.M.G.Nikam	2008	Winter Management of broiler and layer birds	Lokmat –Shetiwadi supplement	
12	Dr.M.V.Dhumal Dr.M.G.Nikam	2010	Summer management of broiler birds	<i>Annadata</i>	

6. Research Recommendations

Sr. No.	6
Year	2014
Project Title	Comparative study of synthetic pigment and marigold flower petals through feed on production and quality of chicken eggs with and without antioxidants
Investigators	Vikas Ingle and Dr.M.V.Dhumal
Recommendations	It is recommended that supplementation of marigold petals @50g/ton of feed +butylated hydroxy toluene @150ppm/kg of feed is beneficial in respect of yolk colour pigmentation, re pigmentation of shank and vent.
Sr. No.	2
Year	2018
Project Title	Effect of dietary supplementation of guar meal with β -mannanase on performance of broilers
Investigators	Suresh Pashamwar and Dr.M.G.Nikam
Recommendations	It is recommended that 5 percent toasted guar meal can safely replace DOC soy up to 5 percent level with supplementation of β -mannanase enzyme @5g/100kg of feed for economic production of broiler chicken.

Sr. No.	6
Year	2019
Project Title	Studies on effect of essential oils on performance of broilers
Investigators	Aniket Sampate and Dr.M.G.Nikam
Recommendations	It is recommended to provide ginger oil @25mg/kg and thymol oil 50mg/kg fed for economical production of broilers.
Sr. No.	7
Year	2019
Project Title	Effect of combination of different organic acids on performance of broiler as alternative to antibiotic growth promoter
Investigators	Asrar Ahmed and Dr.M.V.Dhumal
Recommendations	It is recommended to supplement ammonium formate, calcium propionate and sodium citrate alone @1g/kg of feed for economical production of broilers.
Sr.No	4
Year	2023-24
Project Title	Effect of rice distiller's dried grains with soluble in diets on production performance and egg quality in layers
Investigators	Akshay Adkine and Dr.K.K.Khose
Recommendations	For economic egg production, it is recommended to include up to 15% rice distillers dried grains with soluble(rDDGS) in layer diet on iso-caloric and iso nitrogenous basis by replacing soybean meal without affecting the production performance and egg quality

8. Research Priorities / Thematic areas: Department Wise

1. To explore herbal preparations / extracts and their combinations for their various uses in poultry production
2. Meat quality, gut health and welfare of broiler and layers
3. Nutritional and managemental strategies for improving the productivity in poultry
4. Strategies to improve health and Bio-security for poultry production
5. Strategies for cost-effective poultry production and value addition.