

Research:

1. List of Research Projects: Completed & On-going

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	Sustainable Rural Livelihood Security in Backward Districts of Maharashtra, National Agricultural Innovation Project (NAIP), Component 3 project in Consortium mode with BAIF Development Research Foundation, Pune as CPL (World Bank funded project)	Dr. B.G.HOL	1,55,00000	NAIP (ICAR)	Extra-mural	Completed	5

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	Evaluation of Feedstuffs Dry Matter Degradability by Using Rumen Fistulated Animals	Dr. S. M. Bhalerao	M/s Hindustan Feeds Manufacturing Company Limited, Satara	4.42 Lakhs	Extra-Mural	Completed	1 Year

3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Nutritional and management intervention for improving the livestock, poultry productivity	To develop the nutritional benefiting solutions for livestock and poultry entrepreneurship	Implementation of nutritional solutions to farm level	Improvement in economic conditions 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	M. G. Rawalkar	Effect of different levels of dietary protein on growth and reproductive performance of Wistar rat.	2011	Dr. B. G. Hol
2	A. D. Chikhalikar	Effect of higher plane of nutrition on the performance of Equines used in Antiserum production.	2012	Dr. G. M. Gadegaonkar
3	P. D. Neharkar	Effect of supplementing Chromium on the performance of Equines used for Antitoxin production.	2012	Dr. G. M. Gadegaonkar
4	A. R. Magre	Effect of feeding <i>Azolla (Azolla pinnata)</i> on performance and blood biochemical profile of Broilers.	2012	Dr. G. M. Gadegaonkar
5	A. B. Girigosavi	Effect of supplementing probiotic, prebiotic and multi-enzyme combination on production performance of lactating Crossbred Cows.	2013	Dr. S. B. Kawitkar
6	S. S. Tate	Effect of low protein diet supplemented with DL-Methionine and L-Lysine in Broiler Chicken.	2014	Dr. S. B. Kawitkar
7	S. E. Pardeshi	Studies on supplementation of synthetic Lysine, Methionine and Threonine in Corn soya based low protein diet of Broiler Chicken.	2015	Dr. S. B. Kawitkar
8	S. S. Gaware	Effect of partial replacement of Soybean meal by roasted Guar (<i>Cyamopsis tetragonoloba</i>)	2015	Dr. S. B. Kawitkar

		korma with supplementation of B- mannanase enzyme in the diet of Broiler Chicken.		
9	S. D. Changan	Effect of partial replacement of concentrate mixture by wet distillers grain with solubles on the performance of cross bred lactating cows (<i>Bos taurus</i>)	2016	Dr. S. M. Bhalerao
10	S. A. Jadhav	Effect of supplementation of Turmeric (<i>Curcuma longa</i>) and Ginger (<i>Zingiber officinale</i>) powder on performance of Broiler Birds.	2016	Dr. S. M. Bhalerao
11	M.V. Parkhe	Effect of partial replacement of maize with dried citrus pomace in concentrate mixture of Goats (<i>Capra hircus</i>)	2017	Dr. S. M. Bhalerao
12	C. D. Vanjari	Effect of supplementation of chromium propionate on the performance of lactating Murrah buffaloes (<i>Bubalus bubalis</i>)”	2017	Dr. S. M. Bhalerao
13	A.B. Jadhao	Effect of partial replacement of maize with soybean hulls in concentrate mixture of growing goats (<i>Capra hircus</i>)	2018	Dr. S. M. Bhalerao
14	M. H. Redekar	Effect of supplementation of “ <i>moringa oleifera</i> ” leaf meal on the performance of growing sheep (<i>Ovis aries</i>)	2018	Dr. S. M. Bhalerao
15	A. B. Darade	Comparative study of feeding Jowar kadabi and Groundnut haulms on performance of growing goats	2019	Dr. S. M. Bhalerao
16	A. B. Waghmare	Effect of replacement of cottonseed cake in concentrate mixture by Wet Distillers Grain with Solubles (WDGS) on the performance of growing goats	2019	Dr. S. M. Bhalerao
17	S. N. Nirmal	Effect of supplementation of Ashwagandha in combination with Selenium and Vitamin E on performance of broiler chicken	2020	Dr. S. M. Bhalerao
18	S. B. Nagargoje	Effect of supplementation with <i>Moringa oliefera</i> leaf meal and <i>Tinospora cordifolia</i> powder on performance of broilers	2021	Dr. S. M. Bhalerao
19	J. A. Ashar	Effect of supplementation of Aloe Vera powder (<i>Aloe barbadensis</i> Miller) on performance of broiler chicken	2021	Dr. S. M. Bhalerao
20	A. B. Rathod	Effect of supplementation of lemongrass oil (<i>Cymbopogon citratus</i>) on performance of growing kids	2023	Dr. S. M. Bhalerao
21	S. K. Thaorat	Effect of inclusion of dry distillers grain with solubles (ddgs) in concentrate mixture on performance of growing lambs	2023	Dr. S. M. Bhalerao
22	Sarnaya A.	Effect of inclusion of sugarcane pressmud powder in concentrate mixture of growing goats	2024	Dr. S. M. Bhalerao
23	S. B. Garande	Comparative study of feeding jowar kadabi and groundn	2024	Dr. S. M. Bhalerao

		ut haulms on performance of growing goats	pe		
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Doctoral: **NIL**

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.	NAAS Rating, if any
1	D. Neharkar, G.M. Gadegaonkar, V.U. Dhande, B.G. Hol, M.B. Khadilkar, A.M.Jadhao and S.R. Bhagwat	2014	Effect of supplementing chromium on the nutrients intake, digestibility and feed efficiency of equines used for antitoxin production	Journal of Animal Feed Science & Technology,	Vol-2 Page nos.- 21-25	6.0
2	P. D. Neharkar, G.M. Gadegaonkar, V.U. Dhande, B.G. Hol, M.B. Khadilkar, A.M.Jadhao and S.R. Bhagwat	2014	Effect of supplementing chromium on the blood chemistry profiles of equines used for antitoxin production	Journal of Animal Feed Science & Technology	Volume- 2 Page nos.- 33-38	6.0
3	Rawalkar, M. G.; B. G. Hol, V. U. Dhande, G. M. Gadegaonkar and A. M. Jadhao	2014	Effect of different levels of dietary protein on reproductive performance of Wister Rats. The	Journal of Bombay Veterinary College	Vol.- 20 Page nos 20-24	2.67
4	Jadhav S.A Bhalerao S. M Khanvilkar A. V Shende T.C Changan S. D		Effect of Supplementation of Turmeric (<i>Curcuma longa</i>) and Ginger (<i>Zingiber officinale</i>) Powder on the Performance of Broiler Birds	The Frontier Journal of Veterinary and Animal Sciences (FJVAS).	Vol. 6(02): 138-147	2.27
5	Changan S. D	2017	Partial Replacement of Concentrate Mixture by Wet Distillers Grain	The Frontier Journal of	Vol. 6 (02): 148-153	2.27

	Bhalerao S. M. Khanvilkar A. V Dhande V.U Jadhav S. A		with Solubles (WDGS) on Feed Intake, Nutrient Digestibility and Feed Efficiency of Crossbred Lactating Cows (<i>Bos taurus</i>)	Veterinary and Animal Sciences (FJVAS).		
6	S. A. Jadhav S. M. Bhalerao A. V. Khanvilkar S. D. Changan S. N. Jadhav	2018	Study of turmeric (<i>Curcuma longa</i>) and ginger (<i>Zingiber officinale</i>) powder on blood parameters and immune response of broiler birds	Indian Veterinary Journal (IVJ).	Vol. 95 (05): 24-26.	4.42
7	S. A. Jadhav S. M. Bhalerao A.V. Khanvilkar S. D. Changan	2019	Turmeric (<i>Curcuma longa</i>) and Ginger (<i>Zingiber officinale</i>) Powder on Carcass Characteristics of Broilers	Indian Vet. J., January'	96 (01) : 27 - 29	4.42
8	S. D. Changan S. M. Bhalerao V. U. Dhande A.V. Khanvilkar S. A. Jadhav		Feeding Lactating Cows (<i>Bos taurus</i>) with Wet Distillers Grain with Solubles (WDGS) and their Performance	Indian Veterinary Journal,	95 (09) : 74 - 76	4.42
9	Vanjari, C. D. Bhalerao, S. M. Khanvilkar, A.V. Patodkar, V. R.	2018	Supplementation of chromium propionate with significant effect on nutrient intake, feed efficiency and nutrient digestibility in lactating Murrah Buffaloes	Indian Veterinary Journal,	95 (10) : 11 - 13	4.42
10	Parkhe, M. V. Bhalerao, S. M. Khanvilkar, A.V. Patodkar, V. R. Doiphode, A. Y.	2018	Dried citrus pomace can replace maize up to fifty per cent without any adverse effect in goats(<i>Capra hircus</i>)	Indian Veterinary Journal,	95 (10) : 14 - 16	4.42
11	Daware, A.G. Lonkar V.D Ranade A.S. Patodkar V.R Mote C.S. Bhalerao S. M. Doiphode A.Y.	2018	Effect of Dietary Supplementation of L-Valine on Carcass Characteristics, Immunity and Serum Biochemical's of Broilers.	International Journal of Agricultural Sciences,	Vol. 10 (18): 7150-7155.	4.56
12	Vanjari, C. D. Bhalerao, S. M. Khanvilkar, A.V. Patodkar, V. R.	2018	Supplementation of chromium propionate with significant effect on nutrient intake, feed efficiency and nutrient digestibility in lactating Murrah Buffaloes	Indian Veterinary Journal	2018, 95 (10): 11-13.	4.42

13	M. H. Redekar S. M. Bhalerao A. V. Khanvilkar V. R. Patodkar A.Y. Doiphode	2019	Effect of supplementation of “ <i>Moringa oleifera</i> ” leaf meal on the performance of growing sheep	<i>Indian Veterinary Journal</i> (IVJ),	Vol. 96 (06): 43-45.	4.42
14	A. B. Jadhav S. M. Bhalerao A. V. Khanvilkar V. R. Patodkar A.Y. Doiphode S. N. Jadhav M. N. Rangnekar	2019	Effect of partial replacement of maize with soybean hulls in concentrate mixture on nutrient digestibility and haematobiochemical parameters of growing goats	<i>Indian Veterinary Journal</i> (IVJ),	Vol. 96 (06): 48-50	4.42
15	A. B. Jadhao S. M. Bhalerao A. V. Khanvilkar V. R. Patodkar A.Y. Doiphode	2019	Effect of partial replacement of maize with soybean hulls in concentrate mixture on performance of growing goats	<i>Indian Veterinary Journal</i> (IVJ)	96 (06) : 34 - 36	4.42
16	S. N. Nirmal S. M. Bhalerao A.V. Khanvilkar V.R. Patodkar A.S. Kadam A.Y. Doiphode A.K. Barate, V.M. Sardar G.S. Sonawane	2024	Effect of Dietary Supplementation of Ashwagandha, Selenium and Vitamin E on Growth Performance, Nutrient Digestibility, Carcass Characteristics and Economics in Broiler Chicken	Animal Nutrition and Feed Technology	(2024) 24: 617-626	6.0
17	Deepali Sakunde Mukesh Gangwar C. D. Bhong Abhijit K. Barate Sanjay Bhalerao	2024	Development and Assessment of Chicken Fortified Papad	The Indian Journal of Vet. Sciences and Biotech.,	Vol. 20 Issue 2 (March-April 2024)	5.40
18	Supriya Kardile Smita Kolhe AV Khanvilkar TC Shende AK Bhalerao S. M. Bhalerao Hrushikesh Owha		Assessment of women empowerment through women dairy co-operatives in western Maharashtra	International Journal of Agriculture Extension and Social Development	Volume 7; Issue 6; June 2024; Page No. 210-216	5.04
19	Kharde S. R. Kadam A.S. Lonkar V.D.		Dietary Supplementation of Grape (<i>Vitis vinifera</i>)	Uttar Pradesh Journal	Vol. 45, Issue 15, Page 215-	5.24

	Mugalikar D.M. Patodkar V.R. Bhalerao S. M. Karande V.V.		Seed Powder in Broiler Chicken	of Zoology	222, 2024;	
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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. S. M. Bhalerao	2019	Dudhal Janavaranche Unalyat Ahar vyavasthan	Shetkari Marathi Mashik	48-50
2	डॉ. संजय भालेराव डॉ. विकास सरदार	२०२२	हिवाळ्यातील शेळी,मेंढीचे व्यवस्थापन	सकाळ ऍग्रोवन	१२
3	डॉ. संजय भालेराव डॉ.शुभम थोरात डॉ.अंकुश राठोड	२०२२	हिवाळ्यात जनावरांना द्या संतुलित आहार	सकाळ ऍग्रोवन	१२
4	डॉ. संजय भालेराव डॉ. विकास सरदार	२०२२	सदोष चान्यामुळे जनावरांना होणारे आजार	सकाळ ऍग्रोवन	१२
5	डॉ. विकास सरदार डॉ. संजय भालेराव	२०२२	नवजात वासराचे योग्य व्यवस्थापन	सकाळ ऍग्रोवन	१२
6	डॉ. व्ही. एम. सरदार डॉ. व्ही. आर. पाटोदकर डॉ. व्ही. पी. मेहेरे डॉ. एस एम भालेराव	२०२३	जनावरांतील मज ओळखणे महत्वाचे लाभदायक / फायदेशीर	अग्रोटच	२२-२६
7	डॉ. एस एम भालेराव डॉ. टी. सी. शेंडे	२०२३	शेळ्यांचे शास्त्रीय दृष्ट्या व आर्थिकदृष्ट्या आहार व्यवस्थापन	शेळीपाल प्रशिक्षण पुस्तिका	१४-१८
8	डॉ. एस एम भालेराव डॉ. विकास सरदार	२०२३	शेळ्या मेंढ्याचे हिवाळ्यातील आहार व्यवस्थापन व सांगोपन	शेळीपाल प्रशिक्षण पुस्तिका	६२-६४
9	Dr. S.M. Bhalerao	2023	बायपास फॅट तंत्रज्ञान दुभत्या गायी म्हेशींसाठी वरदान	महाराष्ट्र सिंचन विकास, पुणे	72-75

10	Dr. S. M. Bhalerao Dr. S. B. Garande Dr. Vikas Sardar	2023	गाई-म्हेशींच्या दूध वाढीसाठी बायपास प्रथिने	Techno one / Agrowon	15-18
11	Dr. S. M. Bhalerao Dr. Vikas Sardar Dr. S. B. Garande	2023	दुभत्या गाई, म्हशीसाठी बायपास फॅटचा वापर	Agroplus / Agrowon	12
12	Dr. S. M. Bhalerao Dr. Vikas Sardar Dr. S. B. Garande	2023	जनावरांच्या आहारात चिलेटेड खनिज मिश्रण वापराचे तंत्र	Techno one / Agrowon	12
13	डॉ. संजय भालेराव डॉ. शुभम थोरात डॉ. अंकुश राठोड	२०२३	गाई, म्हशींच्या वेतातील व्यवस्थापन	सकाळ एग्रोवन	१०
14	डॉ. संजय भालेराव डॉ. समाधान गरंडे डॉ. सारण्या ए	२०२३	गाई, म्हशींच्या संक्रमण काळातील आहार व्यवस्थापन	सकाळ एग्रोवन	१२
15	डॉ. संजय भालेराव डॉ. समाधान गरंडे डॉ. सारण्या ए	२०२३	करडांची वजनवाढ, व्यवस्थापनाचे तंत्र	सकाळ एग्रोवन	१२

6. Research Recommendations

Sr. No.	1
Year	2017-18
Project Title	Effect of supplementation of chromium propionate on the performance of lactating Murrah buffaloes (<i>Bubalus bubalis</i>)
Investigators	Chetan Vanjari and Dr. S. M. Bhalerao
Recommendations	It is recommended to supplement chromium propionate @1.5 mg/kg DMI in lactating Murrah buffaloes for economical milk production

Sr. No.	2
Year	2018-19
Project Title	Effect of partial replacement of maize with soybean hulls in concentrate mixture of growing goats (<i>Capra hircus</i>)
Investigators	A. B. Jadhao and Dr. S. M. Bhalerao
Recommendations	It is recommended to replace 50% maize grains by soybean hulls (on dry matter basis) in concentrate mixture for economical production of goats

Sr. No.	3
Year	2018-19
Project Title	Effect of supplementation of “ <i>Moringa oleifera</i> ” leaf meal on the performance of growing sheep (<i>Ovis aries</i>)
Investigators	M. H. Redekar and Dr. S. M. Bhalerao
Recommendations	It is recommended to replace 20% cotton seed <i>Moringa oleifera</i> leaf meal (on DMB basis) in conc. mixture for economical production of sheep

Sr. No.	4
Year	2019-20
Project Title	A. B. Waghmare and Dr. S.M. Bhalerao
Investigators	Effect of replacement of cottonseed cake in concentrate mixture by Wet Distillers Grain with Solubles (WDGS) on the performance of growing goats
Recommendations	It is recommended to replace 100% cotton seed cake by wet distillers grains with solubles (WDGS) in concentrate mixture for economical production of growing goats

7. MOU signed by the Colleges: **NIL**

Sr. No.	MOUS Between	Date of signing	Place	Duration
	Party – 1 & Party - II			

8. Research Priorities / Thematic areas: Department Wise

1. Acidification of sugarcane tops in anaerobic conditions for feeding of animals in Western
2. Maharashtra.

Evaluation of feedstuffs dry matter degradability by using rumen fistulated cross bred cattle

3. Processing and demonstration of paddy straw treatment by using urea molasses for feeding of ruminant animals in western Maharashtra.

4. Processing and demonstration of inferior quality roughages by using various treatments for its improvement for Animal feeding.

5. Evaluation and generation of data of various unconventional feedstuffs by using *in-vitro* and *in-vivo* techniques in Western Maharashtra.

6. Nutritional and management intervention for improving the livestock, poultry productivity (Thematic areas)

9. Significant Research Achievement: Nil

Sr. No.	Achievements	Description
1	Patents Awarded	Nil
2	Breed Registration	Nil
3	IPR	Nil
4	Copyright	Nil
5	Trademark	Nil