

Department of Livestock Production and Management

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 (Completed/Ongoing)	Duration
1.	Grassland Development	Dr. G.R. Channa, Dr. MF Siddiqui	RKVY	10.00	Extramural	Completed	2 yrs

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 Efficacy of a Herbal Growth Promoter in Osmanabadi Goat Kids	Dr. Pawankar K. N.	Ayurved Limited, Baddi	1,40,000/-	Extra-mural	Completed	1 Year
2.	Evaluation of efficacy of herbal growth promoter formulations in Osmanabadi kids	Dr. K.N. Pawankar Dr. G.R. Channa		140000/-	Extra-mural	Completed	1 Year

3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Livestock Production & Management	To manage livestock for high production To provide welfare to animal for sustainable production	Economic production Welfare management Shelter management	Sustainable production through livestock welfare

4. Thesis:

Master:

Name of Department:				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	S.N. Solanke	Water requirement of Osmanabadi kids and Deccani lambs under barn & loose housing system in summer season	2019	Dr. G.R. Channa
2	V.M. Kadam	Growth performance of Deoni calves under loose & barn housing system	2019	Dr. G.R. Channa
3	P.R. Chavahan	Morphometric characterization & managemental practices adapted for local donkeys in Marathwada region	2020	Dr. G.R. Channa
4	V.D. Kature	Assessment of water footprint in Osmanabadi kids	2020	Dr. G.R. Channa
5	S.M. Devale	Management practices adapted and morphometric characterization of Caravan dog	2021	Dr. G.R. Channa
6	C.I. Madnurkar	Assessment of udder, teat & milk quality traits of local Jennies of Marathwada region	2023	Dr. G.R. Channa
7	S.S. Gond	Assessment of phenotypic & Morphometric characteristics of local donkeys in Marathwada region	2023	Dr. G.R. Channa
8	V.V. Karhale	Artificial intelligence in reproductive management of Deoni cattle using infrared thermal imaging	2024	Dr. G.R. Channa

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.	NAAS Rating, if any
1		2017	Comparative studies on probiotic, prebiotic, synbiotic	Journal of Pharmacognosy	2017; 6(4):	5.21

	Pawankar KN, MF Siddiqui and Pawar PH		and garlic supplementation on growth performance of broilers	and Phytochemistry	1818- 1821	
2	Rameswar Panda, K.N. Pawankar, Menalsh Laishram and Asish Debbarma	2018	Advances in feeding management in cattle and buffalo - A review	Research in Environment and Life Sciences	11(01) 30-32	3.74
3	Rameswar Panda, K.N.Pawankar, Menalsh Laishram, Asish Debbarma	2018	The Relevance of Pig Breeds from North Eastern India towards Pork Production- A Review	International Journal of Advances in Agricultural Science and Technology	5 (7), 124-132	3.77
4	Sangame AD, Pawar PH, Pawankar KN and Ramteke SS	2020	Studies on morphometric characteristics of udder and teat with the parity in Marathawadi Buffalo	International Journal of Advanced Academic Studies	2(3): 857-861	
5	Sangame AD, Pawar PH, Pawankar KN and Ramteke SS	2021	Study on morphometric and phenotypic characteristics of udder in Marathwadi buffalo in different stages of lactation	International Journal of Multidisciplinary Trends	3(2): 211-215	
6	Done DA, Pawar PH and Pawankar KN	2021	Growth performance of osmanabadi goats under different feeding methods	International Journal of Veterinary Sciences and Animal Husbandry	6(1): 47-51	4.61
7	Pawankar KN, Samanta R, Ghosh N, Bera S, Channa GR and Ramteke SS	2022	Upliftment of socio- economic status of farmers through rearing of Kadaknath, Giriraja and Black Australorp birds under free- range, semi-intensive and intensive system of housing in Maharashtra state of India	The Pharma Innovation Journal	11(12): 6401- 6406	5.23
8	Pawankar KN, Samanta R,	2022	Comparative production	International Journal of	7(6): 59-63	4.614

	Ghosh N, Bera S, Biswas S, Mandal GP and Ramteke SS		performance traits of Kadaknath, Giriraja and black australorp breeds of poultry under intensive system of management in Maharashtra State of India	Veterinary Sciences and Animal Husbandry		
9	SM Devale, GR Channa, KN Pawankar, NV Khode, VB Dongre, AA Kokate, CI Madnurkar and SS Gond	2023	Management Practices Followed by Caravan Dog Owners and their Perceived Opinion Towards Dog Behaviour	Acta Scientific Veterinary Sciences	5.4, 15-19.	
10	SM Devale, GR Channa, KN Pawankar, VB Dongre, NV Khode, CI Madnurkar and SS Gond	2023	Morphometric Characterization of Caravan Dog	Acta Scientific Veterinary Sciences	5.4, 33-39.	
11	Gond SS, Channa GR, Pawankar KN, Gadegaonkar GM, Jadhav PV, Avhad SR, Madnurkar CI, Kawade SB and Karhale VV	2023	Studies on socio-economic status of donkey owners and reproductive parameters of jennet in Marathwada region of Maharashtra, India	International Journal of Veterinary Sciences and Animal Husbandry	8(2): 88-92	4.61
12	Kature VD, Channa GR, Pawankar KN, Avhad SR, Dhenge SA, Chavan PR, Karhale VV and Kawade SB	2023	Estimation of the water footprint in Osmanabadi goat	The Pharma Innovation Journal	12(5): 4141-4145	5.23
13	Madnurkar C I, Channa G R, Pawankar K N, Komatwar S J, Khode N V1, Vaidya M M, Gond S S1, Karhale V And Kawade S B	2024	Morphometric characterization of udder and teat of Jennies	<i>Indian Journal of Animal Sciences</i>	94 (4): 321–324	6.4

14	GR Channa, AKS Tomar, Vipin Mourya, Arun Prabhakar, KN Pawankar and BS Katkade	2024	Effect of age at calving and lactation order on milk yield per kg of live body weight in Vrindavani cows under institutional farm conditions	International Journal of Veterinary Sciences and Animal Husbandry	9(1): 1384-1387	4.61
15	S.S. Gond, G.R. Channa, K.N. Pawankar, G.M. Gadegaonkar, P.V. Jadhav, S.R. Avhad, S.B. Kawade and V.V. Karhale	2024	Assessment of Phenotypic and Reproductive Characteristics of Local Donkeys in Marathwada Region	Indian Journal of Animal Production Management	40(2), 78-85	2.51

Sr. No.	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAA S Rating, if any
1	G.R. Channa, M.V. Dhumal, M.F. Siddiqui	2013	Effect of different energy sources on feed consumption, weight gain and feed conversion ratio in broilers.	Scientific journal of Veterinary Advances. 2 (10), 2013	2 (10)	Peer reviewed
2	Ingle, V. S., Siddiqui, M. F.; Channa, G. R. ; Kankarne, Y. G	2015	Comparative studies on draft performance of Red Kandhari bullock with pneumatic and iron bullock cart.	Indian Journal of Animal Research. Vol. 50 Issue 2, p152-155; 2015	Vol. 50 Issue 2, p152-155	NAA S
3	Prashant Mashalji, M.F. Siddiqui, G.R. Channa , V.S. Ingle and Y.G. Kankarne	2015	Correlation of body condition score, weight, measurements and effect of parity and stage of lactation on milk parameters of Gir cows	Indian Journal Of Animal Research, Vol. 50 (2):255-259; 2015	Vol. 50 (2):255-259	NAA S
4	Prasanta Boro, Binoy Chandra Naha, Chandra Prakash,	2016	Genetic and non-genetic factors affecting milk composition in dairy cows	International Journal of Advanced Biological Research, Vol. 6(2) 2016: 170-174; 2016	Vol. 6(2)	Peer Reviewed

	AmbadasMadkar, Narender Kumar, Anjali Kumari & Gangaprakash Channa					
5	Arun Prabhakar, Sofi Aaqib Rashid, Atul Kumar Singh Tomar, Vipin Maurya and Gangaprakash Channa	2018	Effect of coat characteristics on milk production and milk composition traits in Tharparkar cattle	Journal of Entomology and Zoology Studies 6(5): 939-941; 2018	6(5): 939-941	Peer Reviewed
6	Arun Prabhakar, Sofi Aaqib Rashid, Atul Kumar Singh Tomar, Vipin Maurya and Gangaprakash Channa	2018	Effect of genetic and non-genetic factors on various coat characteristics in Tharparkar and Vrindavani cattle	Journal of Pharmacognosy and Phytochemistry 7(5): 2638-2640; 2018	7(5): 2638-2640	Peer Reviewed
7	G. R. Channa , A. K. S. Tomar, H. O. Pandey and Cherryl Miranda	2019	Effect of Age at Calving and Lactation Order on Milk Yield Per Kg of Live Body Weight in Murrah Buffaloes Under Organized Farm Conditions	International Journal of Livestock Research eISSN : 2277-1964 NAAS Score -5.36, 2019		NAAS
8	Abhishek Randhave, Narendra Khode2*, Sudhakar Awandkar, Sharad Avhad, Gangaprakash Channa ,	2022	Multivariate Typology of Osmanabadi Goat Farming in its Home Tract: A Cluster Analysis	Indian Journal of Extension Education, Vol. 58, No. 4 (October–December), (23-27) 2022	Vol. 58, No. 4	NAAS 4.48
9	P. N. Manvatkara , R. C.	2022	Performance of broiler chicken on dietary supplementation of	British Poultry Science,		NAAS 8.0

	Kulkarnia, S. P. Awandkarb, S. G. Chavhanc, S. M. Durged, S. R. Avhade, G. R. Channa and M. B. Kulkarnib		protected organic acids blend	https://doi.org/10.1080/00071668.2022.2076211 , 2022		
10	Pawankar KN, Samanta R, Ghosh N, Bera S, Channa GR and Ramteke SS	2022	Upliftment of socio-economic status of farmers through rearing of Kadaknath, Giriraja and Black Australorp birds under free-range, semi-intensive and intensive system of housing in Maharashtra state of India	The Pharma Innovation Journal (2022); 11(12): 6401-6406, 2022	11(12): 6401-6406	No NAA S
11	V. Maurya, M. Singh, P.K. Bharti, V.P. Maurya and G.R. Channa	2022	Blood biochemistry and hormonal profiles of crossbred calves during hot-humid season under modified roofing systems	Journal of Livestock Sci. 13: 67-75, 2022	13: 67-75	NAA S 4.53
12	V.B. Dongre, V.N. Khandait, L.S. Kokate, M.M. Vaidya, G.R. Channa , S.A. Dhenge, A.D. Patil, G.M. Gadegaokar , S.B. Kale	2023	Application of mathematical equations to describe lactation curves in buffaloes	Journal of Livestock Sci. 14: 122-128, 2023	14: 122-128	NAA S 4.53
13	Jadhav P.V., Komatwar S.J., Channa G.R. and Bankar P.S.	2023	Donkey Genetic Resources Of India	International Journal of Agriculture Sciences ISSN: 0975-3710 & E-ISSN: 0975-9107, Volume 15, Issue 6, 2023, pp.-12418-12420	Volume 15, Issue 6, 12418-12420	NAA S 4.02

14	SM Devale*, GR Channa , KN Pawankar, NV Khode, VB Dongre, AA Kokate, CI Madnurkar and SS Gond	2023	Management Practices Followed by Caravan Dog Owners and their Perceived Opinion Towards Dog Behavior	<i>Acta Scientific Veterinary Sciences</i> 5.4 (2023): 15-19.	5.4: 15-19	No NAA S
15	SM Devale, GR Channa , KN Pawankar, VB Dongre, NV Khode, CI Madnurkar and SS Gond	2023	Morphometric Characterization of Caravan Dog	<i>Acta Scientific Veterinary Sciences</i> 5.4 (2023): 33-39.	5.4: 33-39.	Peer reviewed
16	S. B. Raut, G.M. Gadegaonkar, S.M. Durge, R.C. Kulkarni, G.R. Channa and L.S. Kokate	2023	Effect of Dietary Supplementation of <i>Tinospora cordifolia</i> (Giloy) Powder on Performance of Broiler Chicken	Indian J. Anim. Nutr. 2023. 40 (1): 90-97	40 (1): 90-97	NAA S 5.19
17	Gond SS, Channa GR , Pawankar KN, Gadegaonkar GM, Jadhav PV, Avhad SR, Madnurkar CI, Kawade SB and Karhale VV	2023	Studies on socio- economic status of donkey owners and reproductive parameters of jennet in Marathwada region of Maharashtra, India	International Journal of Veterinary Sciences and Animal Husbandry 2023; 8(2): 88-92	8(2): 88-92	NAA S 4.6
18	Kature VD, Channa GR ,	2023	Estimation of the water footprint in Osmanabadi goat	The Pharma Innovation Journal	12(5): 4141-4145	No NAA S

	Pawankar KN, Avhad SR, Dhenge SA, Chavan PR, Karhale VV and Kawade SB			2023; 12(5): 4141-4145		
19	PM. Shirshikar, BW Narladkar, ND Jadhav, SR Rajurkar, SG Jadhav, GR Channa , SS Gaikwad, GM Chigure	2023	Morphological characterization and prevalence of hard ticks infesting cattle of Marathwada region, Maharashtra	J.Exp.zool.India, Vol 26, No.2pp2575-2579, 2023	Vol 26, No.2p p2575- 257	NAA S 4.78
20	Ghule PM, SB Lambate, MM Chudasama, KN Pawankar and GR Channa	2024	Gross anatomical and biometrical studies of the uterine body during different phases of estrus cycle in buffalo (<i>Bubalus bubalis</i>)	International Journal of Research in Agronomy 2024; SP-7(2): 85-87	7(2): 85-87	NAA S 5.20
21	GR Channa , AKS Tomar, Vipin Mourya, Arun Prabhakar, KN Pawankar and BS Katkade	2024	Effect of age at calving and lactation order on milk yield per kg of live body weight in Vrindavani cows under institutional farm conditions	International Journal of Veterinary Sciences and Animal Husbandry 2024; 9(1): 1384-1387	9(1): 1384- 1387	NAA S 4.6
22	Madnurkar C I , Channa G R , Pawankar K N , Komatwar S J , Khode	2024	Morphometric characterization of udder and teat of Jennies	Indian Journal of Animal Sciences 94 (4): 000–000, April,2024/Article https://doi.org/10.56093/ijans.v94i4.135758 , 2024	13575 8, 2024	NAA S 6.40

	N V , Vaidya M M , Gond S S , Karhale V V And Kawade S B					
--	--	--	--	--	--	--

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1	Dr. Pawankar K. N. Dr. Pawar P. H.	2016	तर्की पालन एक फायद्याचा व्यवसाय	Training Compendium: kukkutpalan vyavsay- vikas v kaushalya vruddhi karyakram	51-54
2	Dr. Pawankar K. N. Dr. Pawar P. H.	2017	पशुसंवर्धन शास्त्रोक्त व्यवस्थापन : रोगनियंत्रणाचा मूलमंत्र	Training Manual: ALDO & LSS Training programme 2017	
3	Dr. Pawankar K. N. Dr. Pawar P. H.	2017	मृत जनावरांचे शास्त्रोक्त वल्हेवाट	Training Manual: ALDO & LSS Training programme 2017	
4	Dr. Pawankar K. N. Dr. Channa G.R.	2022	विविध चार पिके व त्यांची लागवड	Training Compendium: दुधाळ जनावरांचे आहार व्यवस्थापन – २०२२	
5	Dr. Pawankar K. N. Dr. Channa G.R.	2022	चार साठवणुकीची हमखास पद्धत – मुरघास	Training Compendium: दुधाळ जनावरांचे आहार व्यवस्थापन – २०२२	
6	Dr. Pawankar K. N. Dr. Channa G.R.	2022	गाभण गाईचे व्यवस्थापन	Training Compendium: ग्रामीण भारतातील बहुउद्देशीय कृत्रीम गर्भाधान तंत्रज्ञ (MAITRI) – 11/04/22 to 10/05/2022	
7	Dr. Pawankar K. N. Dr. Channa G.R.	2022	पशुधनाच्या कानात टोचावयाचे टॅग – टॅगिंग	Training Compendium: ग्रामीण भारतातील बहुउद्देशीय कृत्रीम गर्भाधान तंत्रज्ञ (MAITRI) – 11/04/22 to 10/05/2022	
8	डॉ .कर्णसाई पवनकर, डॉ संदीप ढेंगे .डॉ . गंगाप्रकाश .चन्ना आणी डॉ मंगेश वैद्	2023	शेळ्यांना होणारे चयापचयाचे आजार, क्षार, जीवनसत्वाच्या कमतरता व त्यावरील प्रतीबंधक उपाय	शेळीपालन पुस्तिका -2, प उदगीर .म.वै.	

9	डॉ .कर्णसाई पवनकर, डॉ . गंगाप्रकाश चन्ना, डॉ . लक्ष्मीकांत कोकाटे	2023	परसबागेतील कुक्कुटपालनासाठी लागणारा गोठा , अवजारे व वस्तू	शेळीपालन पुस्तिका -2, पउदगीर .म.वै.	
10	डॉ .कर्णसाई पवनकर, डॉ . गंगाप्रकाश चन्ना, डॉ . लक्ष्मीकांत कोकाटे	2023	प्रजानानासाठीचे बोकड व्यवस्थापन	स्मार्ट प्रशिक्षण पुस्तिका	

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1	Dr. G.R. Channa	2022	‘शेळीपालानासाठी आधुनिक गोठा पद्धती’ published in	Training manual of “व्यावासायात्मक शेळीपालन” during 21 to 23 March 2022.	
2	Dr. G.R. Channa	2022	शेळीपालानासाठी आधुनिक गोठा पद्धती	व्यावसायात्मक शेळीपालन दि. २१ ते २३ मार्च २०२२	
3	Dr. G.R. Channa	2024	गर्भवती व दुध देणाऱ्या शेळ्यांची तसेच बोकडाची काळजी व निगा	शेळी व परीसारातील कुक्कुटपालन पाहीले पशुसखी प्र शक्षण दि. १९.१२.२०२३ ते ०२.०१.२०२४	
4	Dr. G.R. Channa	2024	शेळीपालानाची सुरुवात करताना	शेळी व परीसारातील कुक्कुटपालन पाहीले पशुसखी प्र शक्षण दि.	

				१५.०२.२०२४ ते २४.०२.२०२४	
5	Dr. G.R. Channa	2024	शेलीसंगोपानाच्या व वध पद्धती व गोठा व्यवस्थापन	शेली व परीसारातील कुक्कुटपालन तिसरे पशुसखी प्र शक्षण दि. १५.१२.२०२३ ते ०२.०१.२०२४	
6	Dr. G.R. Channa	2024	शेलीसंगोपानाच्या व वध पद्धती व गोठा व्यवस्थापन	शेली व परीसारातील कुक्कुटपालन दुसरे पशुसखी प्र शक्षण दि. २६.१०.२०२३ ते ०४.११.२०२३	
7	Dr. G.R. Channa	2024	शेलीसंगोपानाच्या व वध पद्धती व गोठा व्यवस्थापन	शेली व परीसारातील कुक्कुटपालन दुसरे पशुसखी प्र शक्षण दि. २६.०२.२०२४ ते ०६.०३.२०२४	
8	Dr. G.R. Channa	2024	शेळीपालन व्यवसाय सुरु करताना	SMART पशुसाठी प्र शक्षण दि. १९.१२.२०२३ ते ०२.०१. २०२४	
9	Dr. G.R. Channa	2024	शेळ्यांचे शास्त्रोक्त व्यवस्थापन व प्रकल्प अहवाल	व्यावसायिक शेळीपालन दि. ०७ ते ०९ फेब. २०२४	

6. Research Recommendations

Sr. No.	
Year	
Project Title	
Investigators	
Recommendations	

7. MOU signed by the Colleges

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

8. Research Priorities / Thematic areas: Department Wise

- Management & assessment of performance in local livestock breeds
- Fodder management for improving animal production
- Modernization in livestock farms/housings to minimize stress

9. Significant Research Achievement:

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