

## 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/On going)	Duration
1	“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, Maharashtra ”	<b>(PI)</b> Dr. R. N. Waghmare <b>(Co-PI)</b> Dr. S.V. Londhe Dr. M.G. Nikam	DST, New Delhi	70.99 Lakh	Extra-mural DST, New Delhi	Completed	2019-2022

### 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	Efficacy Evaluation of Ginoguard -GP1 and Ginoguard –GP2 as	Dr. V.V. Deshmukh Dr. R. N. Waghmare Dr. M. G. Nikam and Dr. M. V. Dhumal	Godrej Industries Ltd (Chemical), Mumbai	0.67	Godrej Industries Ltd (Chemical), Mumbai	Completed	2019-20

	alternative to antibiotic feed additive on growth Performance of Broilers						
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### 3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Antimicrobial Resistance	Antimicrobial Resistance pattern of selected food borne pathogens in various animal origin food chain	To study phenotypic and genotypic Antimicrobial Resistance pattern of selected food borne pathogens	Control of AMR and Surveillance Data
2	Meat Decontamination techniques	Study physical and chemical carcass decontamination methods	To study effect of various physical and chemical carcass decontamination methods on physical, chemical and microbial qualities of meat	Identify suitable carcass decontamination techniques
3	Zoonoses	Study prevalence of brucellosis	To identify prevalence of brucellosis in small ruminants of Marathwada region	Control of Brucella in small ruminants

#### 4. Thesis:

Master:

Name of Department : Department of Veterinary Public Health and Epidemiology COAVS Parbhani				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Manjramkar Aniket Jagdish	Quality Assessment of Commercially Available Cow Urine Distillates	2018	Dr. V.V. Deshmukh
2	Bahirwal Pankaj Shesherao	Hazard Analysis Of Khoa Production Practices In And Around Parbhani	2018	Dr. V.V. Deshmukh
3	Rathod Amol Shivajirao	Evaluation of Synergistic Effect of Hydrogen Peroxide and Ultraviolet Radiation on Microbial Quality of Table Eggs	2019	Dr. R. N. Waghmare
4	Kagane Bajarang Ram	Antibiogram Studies of <i>Escherichia Coli</i> Isolates From Layer Production Systems of Marathwada Region.	2020	Dr. R. N. Waghmare
5	Reddy Rajesh Ramesh	Antibiogram Studies of <i>Salmonella</i> Isolated from Broiler Production System in and Around Parbhani City.	2020	Dr. V.V. Deshmukh
6	Miss More Kajal Dilip	Use of Ultraviolet Light For Decontamination of Raw Chicken Carcasses	2021	Dr. R. N. Waghmare
7	Chilkewar Dinesh Dnyaneshwar	Antimicrobial Resistance Profile of <i>Salmonella</i> spp. Isolated from Meat	2022	Dr. R. N. Waghmare

		Samples of Marathwada		
8	Gadewar Shridhar Shivappa	Comparative Efficacy of Various Decontaminants on Shelf life of chicken at Refrigeration Temperature	2022	Dr. R. N. Waghmare
9	TADAVI KARISHMA (V/16/167)	Effectiveness Of Sodium Hypochlorite, Lactic Acid and Ultraviolet Light Against <i>E. coli</i> and <i>Salmonella spp.</i> Inoculated on Chicken Meat Surfaces	2023	Dr. R. N. Waghmare
10	RASVE RADHA LAXMAN	<b>Antibiogram of <i>Salmonella spp.</i> Isolated From Backyard and Indigenously Developed Poultry Breed Production System</b>	2023	Dr. R. N. Waghmare

Doctoral: NA

<b>Name of Department: Department of Veterinary Public Health and Epidemiology</b>				
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.	NA AS Rating, if any
1	CS Shekh, VV Deshmukh, RN Waghmare, NM Markandeya, MS Vaidya.	2013	Isolation of pathogenic <i>Escherichia coli</i> from buffalo meat in Parbhani city,	Vet. world	2013 277-279	7.60

			Maharashtra, India			
2	Sukhadeo B Barbuddhe, Swapnil P Doijad, Alexander Goesmann, Rolf Hilker, Krupali V Poharkar, Deepak B Rawool, Nitin V Kurkure, Dewanand R Kalorey, Satyaveer S Malik, Ingudam Shakuntala, Sandeep Chaudhari, Vikas Waskar, Dilecta D'Cost, Rahul Kolhe, Ritu Arora, Ashish Roy, Abhay Raorane, Satyajit Kale, Ajay Pathak, Mamta Negi, Simranpreet Kaur, Rupesh Waghmare, Shubhangi Warke, et al	2015	Presence of a widely disseminated <i>Listeria monocytogenes</i> serotype 4b clone in India	Emerging Microbes & Infections	2016, 5, 55, doi:10.1038/emi.2016.55	19.20
3	V.M. Vaidya, R.J. Zende A.M. Paturkar, M.L. Gatne, D.G. Dighe, R.N. Waghmare, S.L. Moon,	2018	Cystic Echinococcosis in animals and humans of Maharashtra state, India	Acta Parasitologica	2018 63(2), 231- 243	7.50

	S.S. Bhave, K.G. Bengale					
4	RN Waghamare, AM Paturkar, VM Vaidya, RJ Zende, ZN Dubal	20 18	Phenotypic and genotypic drug resistance profile of <i>Salmonella</i> serovars isolated from poultry farm and processing units located in and around Mumbai city, India	Veterinary World	2018 11(12): 1682-1688	7.60
5	Vilas Vaidya, Ashish Paturkar, Ravindra Zende, Mukulesh Gatne, Dhananjay Dighe, Rupesh Waghamare, Shilpa Moon, Sujata Bhave, Priyanka Jadhav, Nilam Wavhal	20 18	Scenario of porcine cysticercos is and human taeniasis in Maharashtra State, India	Turk J Vet Anim Sci	2018 42: 353-358	6.60
6	Nilam Wavhal, Ashish Paturkar, Vilas Vaidya, Rupesh Waghamare, Ravindra Zende And Shilpa Moon	20 19	Seropreval ence of porcine cysticercos is in Maharashtra	Indian Journal of Animal Sciences	2019 89(4): 365–368	6.40

7	P. Baraily, R. J. Zende, D. P. Kshirsagar, V. M. Vaidya, R. N. Waghmare, A. M. Paturkar, R. P. Todankar and A. H. Shirke	2019	Rapid Detection of Shiga toxin-Producing E. Coli in Animal Origin Foods Using Loop-Mediated Isothermal Amplification (LAMP) Assay	Agric Res	2019 8(4):490–496	7.40
8	R. N. Waghmare, A. M. Paturkar, V. M. Vaidya, R. J. Zende, Amit Kumar and J. S. Bedi	2020	<b>Screening of antimicrobial residues and confirmation of doxycycline in samples collected from chicken farms and processing units located around Mumbai, India*</b>	<b>Indian Journal of Animal Research</b>	2020 54 (11): 1415-1421	6.50
9	Waghmare R.N., Zende R.J., Waskar V.S., Paturkar A.M., Kulkarni D.S.	2012	Prevalence of Listeria Spp. in Milk Sold in Different Markets of Mumbai city	J. Vet .Pub. Hlth	2012 (2)	3.33
10	RJ Zende, DP Kshirsagar, VM Vaidya, RN	2016	Prevalence and Antibio gram Studies of <i>Salmonella</i>	Journal of Veterinary Public Health	2016 14 (1), 41-46	3.33

	Waghamare, AM Paturkar		from Foods of Animal Origin in Mumbai City.			
11	Deepika P., R.J. Zende, D.P. Kshirsagar, V.S. Lande, V.M. Vaidya, R.N. Waghamare, A.H. Shirke and R.P. Todankar,	20 17	Effects of Electron Beam Irradiation on Safety and Qualities of Pork Salami Stored at Refrigerati on Temperatu re	<i>J. Vet. Pub. Hlth</i>	2017, 15(2)	3.33
12	R.G. Shende*, V.M. Vaidya, R.J. Zende, A.M. Paturkar, R.N. Waghmare, L.N. Kale, S.S. Bhave, N.B. Aswar and R.S. Khillare	20 18	Applicatio n of Flow Through Assay for Serdignosi s of Cysticerco si in Pigs	Journal of Veterinary Public Health	2018 16 (1), 39-43	3.33
13	RJ Zende, DP Kshirsagar, VM Vaidya, RN Waghamare, RP Todankar	20 17	Loop-Med iated Isothermal Amplificat ion Assay (LAMP): A Rapid Tool for Diagnosis of Food Borne and Zoonotic Pathogens: A Review	International Journal of Livestock Research	2017 7(5), 23-35	4.31
14	PS Bahirwal, VV Deshmukh, RN Waghamare andMS Vaidya	20 17	Microbial Hazard Analysis of Milk and Khoa in Manual and	Int. J. Pure App. Biosci	2018 6 (6), 525-534	4.55



			Mechanical Production Processes in Parbhani City of Maharashtra State of India			
15	S. D Joshi, VV Deshmulh, RN Waghmare, PV Yeotikar	2018	Microbial Hazard Analysis of Branded and Retail Milk Sold in Parbhani City of Maharashtra State, India	Int. J. Pure App. Biosci	2018 6 (4), 613-624	4.55
16	PS Bahirwal, VV Deshmukh, RN Waghmare and MS Vaidya	2018	Physicochemical Hazard Analysis of Milk and Khoa in Manual and Mechanical Production Processes in Parbhani City of Maharashtra State of India	Int. J. Pure App. Biosci	2018 6 (6), 511-517	4.55
17	Patil S. S., Deshmukh V.V., Waghmare R. N. and Yeotikar P.V.	2018	Detection of <i>Salmonella</i> spp. Isolated from Poultry Meat and Sources of Contamination in Retail Poultry Meat	Int. J. Pure App. Biosci	2018 6 (2): 455-458	4.55

			Shops by Using PCR			
18	Kale, L., Waghmare, R., Vaidya, V., Zende, R., Paturkar, A., Barua, A., & Shende, R. (2018).	2018	Studies on Occurrence of Trichinella spp. in Pork Meat Sold in Goa and Assam States of India.	Journal of Livestock Research	2018 8(11), 201-207. doi: 10.5455/ijlr.2017100707033	4.31
19	Patil S. S., Deshmukh V. V.*, Waghmare R. N. and Yeotikar P. V	2019	Microbial Hazard Analysis of Retail Poultry Meat Sold in Unorganized Slaughter Units in Parbhani City of Marathwada Region of Maharashtra State	Int. J. Pure App. Biosci	. 7 (2): 434-439 (2019)	4.55
20	A. S. Rathod, R. N. Waghmare, V. V. Deshmukh and M. S. Vaidya	2020	Sanitization of Table Eggs with Treatment of Hydrogen Peroxide and Ultraviolet Radiation*	International Journal of Livestock Research	2020, 10 (3), 99-107	4.31
21	Bajrang Kagane, Rupesh Waghmare, Vivek Deshmukh, Sanjay Londhe, Kakasaheb Khose and Pandit Nandedkar	2021	Antimicrobial Resistance of Pathogenic <i>Escherichia coli</i> isolated from Broiler Production Systems*	Journal of Animal Research	(2021): v.11 (5), p. 915-923.	4.78

22	R.N. Waghmare, H.K. Popalghat, S.V. Londhe, V.V. Deshmukh and V.V. Khobe	20 21	An online survey of consumers of Maharashtra concerning the expected change in the meat and meat product business.*	Journal of Animal Research	2021 11(1): 137-141.	4.78
23	R. N. Waghmare, S. V. Londhe, S. S. Ajabe, V. V. Khobe, and V.V. Deshmukh	20 22	Marketing Skills and Sanitary Status of Retail Meat Shops In relation to Butchers' Educational Background in Maharashtra*	Indian Journal of Extension Education	2022 Vol. 58, No. 2 (129-134)	4.48
24	Rupali Pathade, Sanjaykumar Londhe*, Sandip Rindhe, Anita Chappalwar, <b>Rupesh Waghmare</b> and Dipali Patil	20 22	Effect of Spinach (Spinacia oleracea) and Moringa (Moringa olerifia) Powder on Physico-chemical and Sensory Attributes of Chicken Meat Balls*	Chem Sci Rev Lett	2022, 11 (42), 269-275	4.87
25	Rajesh Ramesh Reddy, Vivek Vasant Deshmukh and <b>Rupesh Nagesh Waghmare</b>	20 21	Antimicrobial Resistance Pattern of <i>Salmonella</i> spp. Isolates of Broiler	<i>Ind. J. Pure App. Biosci.</i>	(2021) 9(5), 6-12	4.55

			Production System*			
26	A. S. Nemade, S. V. Londhe and <b>R. N. Waghmare</b>	20 21	Shelf Stability of Cookies Incorporated with Spent Hen Meat Powder in Aerobic Packaging at Ambient Temperature (37±1 0C)*	International Journal of Livestock Research,	11(3), 65-71. <a href="http://dx.doi.org/10.5455/ijlr.20190830084712">http://dx.doi.org/10.5455/ijlr.20190830084712</a>	4.31
27	Kajal D. More a, <b>Rupesh N. Waghmare</b> ao*, Vivek V. Deshmukh a#, Sanjay V. Londhe bo and Kakasaheb K. Khose	20 22	Use of Ultraviolet Light for Surface Decontamination of Raw Chicken Carcasses	Journal of Experimental Agriculture International	44(11): 226-239, 2022; Article no.JEAI.92848	5.14
28	Santosh Virkar, Sanjaykumar Londhe*, Dipali Patil, <b>Rupesh Waghmare</b> and Sandeep Rindhe	20 23	Effect of Freeze-Thaw Cycle on Microbiological Quality of Chicken Meat	Chemical Science Review and Letters	2023, 12 (47), 193-197	4.87
29	Shende R. G., V.M. Vaidya, R.J. Zende, A.M. Paturkar, , <b>R.N. Waghmare</b> , SKale L. N. and , S.S. Bhave	20 16	Incidence of Cysticercosis in Pigs slaughtered in Deonar Abattoir	J. of Bombay Veterinary College	2016 23(2) 12-14	
30	<b>RN Waghmare</b> , AM Paturkar, RJ Zende, VM	20 17	Studies on Occurrence of Invasive <i>Salmonella</i> spp. from	Int. J. Curr. Microbiol. App. Sci.	2017 6 (5), 630-641	

	Vaidya, RS Gandage		Unorganised Poultry Farm to Retail Chicken Meat Shops in Mumbai City, India			
31	VR Masoji, RJ Zende, RD Suryawanshi, VM Vaidya, <b>RN Waghmare</b>	20 17	Rapid Detection of <i>Salmonella</i> spp. in Animal Origin Foods by In-House Developed Loop-Mediated Isothermal Amplification (LAMP) Assay	Int. J. Curr. Microbiol. App. Sci	2017  6 (4), 2523-2532	
32	Deepika P., R.J. Zende, D.P. Kshirsagar, V.S. Lande, V.M. Vaidya, <b>R.N. Waghmare</b> , R.P. Todankar and A.H. Shirke	20 17	Effects of Electron Beam Irradiation on Microbial Quality of Pork Sausage Stored at Refrigeration Temperature	Intern. J. of Current Microbiol	2017  6 (11): 3978-3987	
33	L.N. Kale, <b>R.N. Waghmare</b> *, V.M. Vaidya, R.J. Zende, A.M. Paturkar, R.G. Shende, N.B. Aswar and D.P. Kshirsagar	20 18	Studies on Occurrence of Trichinellosis in Pigs and Its Molecular Characterization Using Multiplex PCR in Maharashtra, India	Int.J.Curr.Microbiol.App.Sci	2018 7(8): 4451-4457	

34	VB Shelke, MP Sakhare, MFMF Siddiqui, RN Waghamare, ND Jadhav, and AS Tawheed	20 19	Prevalence of subclinical mastitis in dairy cows in and around Parbhani*	The Pharma Innovation Journal	2019 8(10): 78-81	
35	<b>R. N. Waghamare</b> , A. M. Paturkar, V. M. Vaidya, R. J. Zende	20 19	Quantifyin g the <i>Salmonella</i> spp. at critical stages of poultry processing by miniature MPN techniques (mMPN)	Journal of Entomology and Zoology Studies	2019  7(2): 1089-1093	
36	A.J. Manjramkar, V.V. Deshmukh, <b>R.N. Waghamare</b> and M.S. Vaidya	20 19	Assessmen t of Antimicro bial Properties of Cow Urine Distillates *	Int.J.Curr.Microbi ol.App.Sci	2019 8(8): 2556-2565	
37	DM More, SV Londhe, DP Patil, GR Gnagane, <b>RN Waghamare</b> and KK Khose	20 19	Assessmen t of Shelf life of wheat flour based quail meat enriched noodle during room temperatur e	Journal of Entomology and Zoology Studies	2019; 7(1): 1576-1580	
38	<b>Rupesh Waghamare</b> , Ashish Paturkar, Vilas Vaidya, Ravindra Zende, Milind Chavak and	20 20	Risk of <i>Salmonella</i> in Various Poultry Farming and Processing Operations Around	Int.J.Curr.Microbi ol.App.Sci	2020  9(8): 1024-1034	

	Santosh Moregaonkar		Mumbai, India*			
39	Prabhawati N. Bhumre , Sanjaykumar V. Londhe, Dipali P. Patil a, Sandeep N. Rindhe and <b>Rupesh N. Waghmare</b>	2023	Assessment of Shelf Life of Chicken Eggs Enriched Wheat Flour Based Noodles	Current Journal of Applied Science and Technology	Volume 42, Issue 29, Page 30-37, 2023; Article no.CJAST.103479	

### Research Recommendations

Sr. No.	1
Year	2020
Project Title	Evaluation of Synergistic Effect of Hydrogen Peroxide and Ultraviolet Radiation on Microbial Quality of Table Eggs
Investigators	A S. Rathod, R. N. Waghmare and V. V. Deshmukh
Recommendations	Combination of hydrogen peroxide spray (1.5%) and 4 minute exposure to UV radiation (250nm) is recommended for reducing upto 90% microbial load of table egg sold in retail market

Sr. No.	2
Year	2022
Project Title	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, Maharashtra
Investigators	R. N. Waghmare, S. V. Londhe and V. V. Deshmukh
Recommendations	To elevate the sanitary status of retail meat shop, it is recommended to initiate a skill development program on hygienic meat production

Sr. No.	3
Year	2019
Project Title	Risk assessment of <i>Salmonella</i> spp in chicken production chain
Investigators	Dr. R. N. Waghmare , Dr. A M. Paturkar, Dr. R. J. Zende and Dr. V. M. Vaidya

Recommendations	It is recommended that the litter at farm level, and defeathering and evisceration in chicken meat production chain are considered to be high risk stages for the occurrence of <i>Salmonella</i> spp
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8. Research Priorities / Thematic areas: Department Wise :
  1. Antimicrobial Resistance
  2. Food Safety