# **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
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## 2. List of Private Agency Projects: Nil

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 (Complet ed/Ongoi ng)	Duration
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#### 3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Application of edible films and coatings for enhancement of quality and shelf-life of livestock products	To improve the quality and shelf-life of livestock products using edible films and coatings	1. To improve the quality and shelf life of livestock products using natural methods of preservation.	<ol> <li>Quality and shelf-life will be improved.</li> <li>Enhanced income generation as the product will be stable for longer duration of time.</li> </ol>

#### 4. Thesis:

Master:

Name of	Department :			
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	ZanzadSuhasini	"Studies on standardization on emu meat emulsion and cooked emu meat sausages."	2010	Dr.R.D.Kokane
2	Saeed Maner	Development of process for cooked emu meat patties."	2010	Dr.R.D.Kokane
3	Sumin Jose	"Process deveopment for dehydrated flavoured chicken shreds from spent hen meat	2012	Dr.R.D.Kokane
4	Kavita Patil	Studies on development of shelf stable noodles from spent hen meat."	2012	Dr.R.D.Kokane
5	Anil Dange	"Studies on development of low sodium chicken strips."	2013	Dr.R.D.Kokane
6	Mr. Sarvadnya	Development of hot extruded puffed products from spent hen meat."	2013	Dr.R.D.Kokane
7	Ms. Vanramhlimpui	"Studies on Process Standardization of Chicken Momo."	2015	Dr. S. V. Londhe

8	Santosh Virkar	"Effect of freeze thaw cycle on quality of chicken."	2015	Dr. S. V. Londhe
9	S. R. Yadav	"Assessment of quality of chicken nuggets treated with garlic extract at refrigerated storage."	2016	Dr. S. R. Badhe
10	T. P. wanjari	"Assessment of storage stability of garlic extract treated paneer at refrigeration temperature."	2016	Dr. S. R. Badhe
11	DhansahreeDidolkar	"Development of intelligent packaging indicator for monitoring chicken meat quality during refrigerated storage."	2017	Dr. S. R. Badhe
12	Poonam Pawar	Process optimization of fruit yoghurt enriched with dietary fibre	2019	Dr. S. R. Badhe
13	Saurabh Karumamay	Extending the shelf life of paneer coated in edible film treated with essential oils	2019	Dr. S. R. Badhe
14	VishwaJeet Yadav	Development of edible film incorporated with beet root extract and its	2021	Dr. V. H. Shukla

		effects on quality of chicken patties		
15	TusharGovindEthape	Development of edible film incorporated with red cabbage extract and its effects on quality of chicken sausage	2021	Dr. V. H. Shukla
16	Eshwari Sonar	Quality assessment of chitosan and oregano essential oil nanoparticles coated chicken patties	2022	Dr. V. H. Shukla
17	Shreya Rao	Quality assessment of chitosan and cinnamon essential oil nanoparticles coated chicken sausages	2022	Dr. V. H. Shukla
18	Akash Sakalkar Madhukar	Characterization of Dang Cow Milk and Development of Frui Paneer		Dr. V. H. Shukla
19	Srijna sharma	Quality assessment of paneer coated with  Nanoemulsion of essential oils and Carboxymethylcellulose	2023	Dr. V. H. Shukla
20	Prashant Fuke	Development of composite film incorporated with black pepper essential oil and its effects on quality of chicken patties	2024	Dr. V. H. Shukla

21	Thouti Nitish Kumar	Development of composite film incorporated with thyme essential oil and its effects on quality of chicken patties	2024	Dr. V. H. Shukla

Doctoral: Nil

Name o	f 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	Vivek Shukla,Kandeepa n. G, Vishnuraj M.R	2015	Development of On- Package Indicator Sensor for Real-Time Monitoring of Buffalo Meat Quality During Refrigeration Storage	Food Analytical Methods	8: 1591-1597	8.6

2	Vivek Shukla,Sanjod Kumar Mendiratta, Ravindra Jayavant Zende, Ravi Kant Agrawal, Rohit Kumar Jaiswal	2020	Effects of chitosan coating enriched with Syzygium aromaticum essential oil on quality and shelf-life of chicken patties	Journal of Food Processing Preservation.	doi.org/10.1111/jfpp. 14870	8.0
3	D.A. Didolkar, S.R Badhe, V.H. Shukla and S.R. Yadav.	2018	Development of Bromocresol Purple Based Indicator Sensor for Monitoring Broiler Meat Quality Under Refrigerated Storage	The Indian Veterinary Journal,	95 (08) : 70 - 73	4.99
4	Trupti P. Wanjari, Shekhar R. Badhe, Vivek Shukla, Satish R. Yadav and Vilas M. Vaidya.	2019	Evaluation of Garlic Extract in Extending Shelf Life of Paneer	International Journal of Livestock Research,	9(7):100-110. doi:10.5455/ijlr.2019 0311110441	4.31
5	Eshwari Sonar, V. H. Shukla, V. M. Vaidya, R. J. Zende, S. D. Ingole.	2023	Nanoparticle s of chitosan and oregano essential oil: application as edible coatings on	Journal of Food Science and Technology	doi.org/10.1007/s13 197-023-05804-1	8.6

S. R. Yadav, S. R. Badhe, Vivek	2020	chicken patties.  Shelf-Life Extension Of Chicken Nuggets	Journal of Bombay	25(2): 76-72.	
Shukla, Trupti P. Wanjari and D.A. Kakkar.		Incorporated With Garlic Extracts.	Veterinary College,		
Saurabh Karunamay ,Shekhar R. Badhe, Vivek Shukla, Nikita Singh, Kasturi Lali and Smita Patil	2020	Application of Clove Essential Oil in Food Industry - A Review.	Journal of Food Research and Technology,	07 (04) 23-25.	
Saurabh Karunamay ,Shekhar R. Badhe, Vivek Shulka and Poonam A. Pawar	2019	. Effect of Edible Packaging Film Treated with Admixture of Clove and Oregano Essential Oil in Extending the Shelf Life of Paneer	Journal of Food Research and Technology,	08 (01) 01-04.	
Saurabh Karunamay, S. R. Badhe and Vivek Shukla	2020	Comparative study of essential oil of clove and oregano treated edible film in extending	The Pharma Innovation Journal	9(7): 312-316	

		shelf life of			
		paneer			
Saurabh Karunamay, S. R. Badhe and Vivek Shukla	2020	Effect of Edible Packaging Film Treated with Essential Oil of Clove in Extending the Shelf Life of Paneer	International Journal of Livestock Research.	. 10 (9): 178-183	4.31

# List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1	Vivek Shukla and Satish Yadav	2017	तापमानाचा वापर	Agrowon	13/09/20 17
			करून चिकन मधील		
			जंतुसंसर्गास अटकाव		
2	Satish Yadav, Narendra Karembele, Vivek Shukla	2017	अनुवांशिक आजार	Agrowon	26/10/20 15
3	Satish Yadav	2017	प्रक्रिया करून टिकवा	Agrowon	12/09/20
			अंड्यांची गुणवत्ता		17

#### 6. Research Recommendations

Sr. No.	1
Year	2023
Project Title	Quality assessment of chitosan and cinnamon essential Oil nanoparticles coated chicken sausages
Investigators	Neelagiri Shreya Rao, V. H. Shukla, R.J. Zende, S. D. Ingole, Dr. D.

	N. Desai, Dr. R. R. Pharande
Recommendations	Edible coating of nanoemulsions of 0.3% chitosan incorporated with 0.3% cinnamon essential oil could be successfully used to enhance the quality and shelf-life of chicken sausages by 15 days than control at refrigeration temperature.

### 7. MOU signed by the Colleges

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

- 8. Research Priorities / Thematic areas: Department Wise
- 1. Edible films and coatings for enhancement of quality and shelf life of meat and milk products
- 2. Development of shelf stable milk and meat products
- 3. Development of value added milk and meat products

#### 9. Significant Research Achievement:

Sr. No.	Achievements	Description
1	Patents Awarded	
1	1 atents 71warded	
2	Breed Registration	
3	IPR	
4	Copyright	
5	Trademark	