

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	Characterization and genotyping of the genes influencing ovulation in the Osmanabadi breed of goat	Dr. A. Y. Doiphode	SERB	25.00	Extra-mural (SERB)	Completed	
2	Molecular characterization of the genes and analysis of the genotypes influencing growth rate in the Osmanabadi breed of goat	Dr. A. Y. Doiphode	SERB	12.00	Extra-mural (SERB)	Completed	
	Genotyping of indigenous cattle (Khillar) for β -casein genes using PCR-RFLP Technique.	Dr.T.C. Shende	Intra-Mural	0.5	Intra-mural	Completed	1 Year (2025-2016)
	Genotyping of HF crossbred cattle for β -casein genes using PCR-RFLP Technique	Dr.T.C. Shende	Intra-Mural	0.5	Intra-mural	Completed	1 Year (2016-17)
	Genetic Polymorphism of TLR4 Gene and its correlation with Mastitis in HF crossbred Cattle and Pandharpuri buffalo.	Dr.T.C. Shende	Intra-Mural	0.5	Intra-mural	Completed	1 Year (2016-17)
	Determination of best prediction model for estimation of live body weights and evaluation of body condition score (BCS)	Dr. T. C. Shende	Intra-Mural	0.3	Intra-mural	Completed	1 Year (2022-23 & 23-24)

	in Osmanabadi Goat Breed						
	Development of mobile application for prediction of live body weights in cattle	Dr. T. C. Shende	MAFSU Research Grant Project	2.0	MAFSU Research Grant Project	Completed	2022-24
	Expression Profiling of Lingual Antimicrobials Peptide (LAP) Gene Transcript in Osmanabadi Goat	Dr. T. C. Shende	PG research project	0.7	PG research project	Completed	2017-2018
	PREDICTION OF LIVE BODY WEIGHT USING LINEAR BODY MEASUREMENTS IN PANDHARPURI BUFFALO	Dr. T. C. Shende	PG research project	0.3	PG research project	Completed	2023-2024
	MOLECULAR ANALYSIS OF IL-8 GENE IN HF CROSSBRED CATTLE VIS-A-VIS CLINICAL MASTITIS	Dr. T.C. Shende	PG research project	0.4	PG research project	Completed	2024-2025

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
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3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Genotyping/ Genetic Profiling of different farm animals for production and immunity traits	Characterization of the genes influencing ovulation in Indigenous pigs	Characterization of BMPR1B, BMP-15 and GDF-9 genes in Indigenous pigs	The findings of the study will be useful in the near future to select the superior stock of Pigs
2	Transgenic research for the production of	Invitro fertilization and genome	1. To design CRISPR cas tool to target BMPR1B	The advanced experiment on genome editing

	superior germplasm	editing in the goats (Capra hircus)	locus for genome editing of Sangameri goat. 2. To synthesize, accessory components in CRISPR-Cas based genome editing. 3. To standardize caprine IVF studies for the generation of invitro caprine one-cell staged embryos. 4. To transfect the modified locus in the form of vector carrying accessory elements for genome editing into the caprine pre-implant stage embryos. 5. To genotype the pre-implant stage embryos.	using CRISPR/Cas-9 and GONAD technology in the goats will open a new area for generating genome-edited farm animals
3	Development of gene-based vaccines	Development of Chicken Anaemia Virus-like Particles as the Indigenous Vaccine Candidate	1. To generate the recombinant baculoviral construct/s containing structural proteins of chicken anaemia virus 2. To express chicken anaemia virus-structural proteins in the insect cell system 3. To characterize and Purify chicken anaemia virus-like particles 4. To study Immune response induced by chicken anaemia virus-like particles in the chicken model	The findings of the study will be highly useful in the near future for planning and execution of systematic vaccination of the chicken breeders in near future.

4. Thesis:
Master:

Name of Department :				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	Vipul	Expression Profiling of Lingual Antimicrobial Peptide (LAP) Gene Transcript in Osmanabadi Goat	2018	Dr. T.C. Shende
2.	Nachare Vaibhav	Study of NRF2 gene expression and its effect on oxidative stress in indigenous pigs	2024	Dr. G.S. Sonawane
3.	Mr. KAPANE PRASAD DEVIDAS	PREDICTION OF LIVE BODY WEIGHT USING LINEAR BODY MEASUREMENTS IN PANDHARPURI BUFFALO	2024	Dr. T.C. Shende

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.	Ukale PS, Sawane MP, Pawar VD, Shende TC, Mali AB and AY Doiphode*	2024	Molecular Characterization of Osmanabadi Breed of Goat at FecG Loci.	International Journal of Livestock Research,	Vol. 14 (6).	4.31
2.	Nachare VV, GS Sonawane, SN Jadhav, AY Doiphode , TC Shende.	2024	Oxidative stress and NRF2 gene expression in blood of Indigenous pigs	Journal of Livestock Science (ISSN online 2277-6214)	15, 111-119	6.40
3.	Owhal H, Kolhe SR, Bhokre SM, Doiphode AY , Bhalerao SM, Kardile	2024	Adoption of silage production practices by dairy farmers in western Maharashtra.	Int J Agric Extension Social Dev; DOI: 10.33545/26180723.2024.v7.i7f.833	7(7):425-434.	5.04

	S, Kolhe RP.					
4.	Tep G, Sawane MP, Pawar VD, Shende TC, and AY Doiphode*	20 23	Lack of Polymorphism in the IGFBP-3 and BMP-4 Genes of the Osmanabadi Breed of Goat.	Ruminant Science	Vol 12 No 2, p 301- 307.	4.45
5.	Sur M, Rasquinha MT, Arumugam R, Massilaman y C, Gangaplara A, Mone M, Lasrado N, Yalaka B, Doiphode A, Gurumurthy C, Steffen D and J. Reddy.	20 23	Transgenic Mice Expressing Functional TCRs Specific to Cardiac Myhc- α 334–352 on Both CD4 and CD8 T Cells Are Resistant to the Development of Myocarditis on C57BL/6 Genetic Background.	Cells, ; https://doi.org/10.3390/cells12192346 .	12(19), 2346	12.0 0
6.	Nirmal SN, Bhalerao SM, Khanvilkar AV, Patodkar VR, Kadam AS, Doiphode AY, Barate AK, Sardar VM and GS Sonawane	20 23	Influence of Ashwagandha supplementation with selenium and vitamin E on hemato- biochemical parameters and immune response of broiler chickens.	The Haryana Veterinarian	62 (SI-2): 83-88.	4.50
7.	Ambade RB, SH Dalvi, VD Dighe, AY Doiphode, BN Ramteke, SN Jadhav	20 23	HSP70 Gene Expression Pattern in Peripheral Blood Mononuclear Cells during Different Seasons in Pandharpuri Buffaloes	Indian Journal of Animal Research, DOI- 10.18805/IJAR. B-4888	B-4888	6.50
8.	Jadhav K, S Kolhe, M Nande, A Khanvilkar and A Doiphode	20 21	Utilization of mobile- based ICT tools by the dairy farmers of Satara and Pune Districts of Maharashtra	Asian Journal of Agricultural Extension, Economics & Sociology	39 (6), 35- 43	4.73
9.	Pawar V, M Sawane, K	20 21	Characterization of third exonic region of	The Indian Journal of Animal Sciences	91 (2), 151-154	6.40

	Zunjarrao, A Doiphode*		POU1F1 gene in the Osmanabadi breed of goat			
10.	Pawar VD, MP Sawane and AY Doiphode*	20 21	POU1F1 Gene Polymorphism and its Associations with Body Weight of Osmanabadi Goat.	Indian Journal of Animal Research, DOI-10.18805/ IJAR.B-4528	B-4528	6.50
11.	Pharande RR, SB Majee, SS Gaikwad, SD Moregoankar, AS Bannaliker, AY Doiphode , R Gandge, DG Dighe, SA Ingle and S Mukherjee.	2021	Evolutionary analysis of rabies virus using the partial Nucleoprotein and Glycoprotein gene in Mumbai region of India.	Journal of General Virology, doi: 10.1099/jgv. 0.001521. Epub.	102(3)	9.80
12.	D'Silva KL, MB Amle, MN Rangnekar, AB Mali, AY Doiphode	20 20	Fertility assessment in relation to ovarian follicular dimensions and GnRH therapy in dairy cattle.	The Haryana Veterinarian, Special Issue, 34-37 ref. 15	Vol. 59	4.50
13.	Waghamare AB, SM Bhalerao, AV Khanvilkar, VR Patodkar, AY Doiphode and AK Barate	20 20	Biochemical parameters of goats fed with Wet Distillers Grains with Solubles replacing Cottonseed Cake.	Indian Veterinary Journal (IVJ), 17 – 19	97 (04):	4.99
14.	Yenge GD, VD Lonkar, AS Ranade, AY Doiphode , VR Patodkar and CS Mote	20 20	Effect of Dietary Inclusion of Combination of Inulin and Saponin on Egg Qualities of Laying Hens	Indian Journal of Veterinary Science and Biotechnology: 10.21887/ijvsbt.15.3.20.		5.25
15.	Darade AB, SM Bhalerao, AV Khanvilkar, VR Patodkar, AY Doiphode	20 20	Comparative study of feeding jowar kadabi and groundnut haulms on nutrient digestibility of growing goats.	Indian Veterinary Journal (IVJ), 27 – 29	97 (04)	4.99

	and AK Barate					
16.	Jadhav AB, SM Bhalerao, AV Khanvilkar, VR Patodkar, AY Doiphode , SN Jadhav and MN Rangnekar	20 20	Replacement of maize with soybean hulls in concentrate mixture on nutrient digestibility and haemato-biochemical parameters of growing goats	The Haryana Veterinarian, 135-136.	59 (1)	4.50
17.	Bodare PA, AV Khanvilkar, SM Bhalerao, ST Hande, AY Doiphode and MN Rangnekar	20 20	Effect of feeding different combinations of urea-treated sugarcane top silage on its oxalate content and blood mineral profile in Murrah buffaloes	The Haryana Veterinarian, 189-191	59(2)	4.50
18.	Vipul, TC Shende, AK Barate and AY Doiphode	20 20	Sequence Characterization of Partial TLR4 Gene in Indian Crossbred Cattle	Journal of Entomology and Zoology Studies , 900-903	8 (1)	--
19.	Redekar MH, SM. Bhalerao, AV Khanvilkar, VR Patodkar and AY Doiphode .	20 19	“Moringa Oleifera” Leaf Meal Supplementation on the Performance of Growing Sheep.	Indian Veterinary Journal, 43 – 45.	96 (06)	4.99
20.	Jadhao AB, SM Bhalerao, AV Khanvilkar, VR Patodkar and AY Doiphode	20 19	Replacement of Maize with Soybean Hulls in Concentrate Mixture on Performance of Growing Goats	Indian Veterinary Journal, 34-36.	96 (06)	4.99
21.	Redekar MH, SM Bhalerao, AV Khanvilkar, VR Patodkar, AY Doiphode , SN Jadhav	20 19	Effect of supplementation of “Moringa Oleifera” leaf meal on nutrient digestibility and haemato-biochemical parameters of growing sheep	The Haryana Veterinarian, 213-216	58(2)	4.50

	and MN Ranganekar					
22.	Daware AG, Lonkar VD, Ranade AS, Patodkar VR, Mote CS, Bhalerao SM and AY Doiphode.	20 18	Effect of dietary supplementation of L-Valine on carcass characteristics immunity and serum biochemicals of broilers	International Journal of Agriculture Sciences ISSN: 0975-3710 & E- ISSN: 0975-9107, pp.- 7150-7155	Vol. 10, Issue 18	--
23.	Pawar VD, MP Sawane, MM Chopade and AY Doiphode*.	20 18	Screening of Madgyal Sheep for Leptin Gene Using PCR-SSCP	International Journal of Livestock Research,	Vol 8 (02)	4.31
	Ambade RB, SH Dalvi, MM Gatne, VD Dighe, AY Doiphode and BN Ramteke	20 18	Stress enzyme Level during different seasons in Pandharpuri Buffalo	The Indian Journal of Veterinary Sciences & Biotechnology. 18-21.	Vol. 14, Issue 2	5.25
25.	Bhave KG, MP Sawane, PT Wagh, KA Zunjarrao, VD Pawar, and AY Doiphode.	20 17	Genotyping of Osmanabadi goat at FecX and FecB Loci.	Ruminant Science, p207-214	Vol 6 No 2	4.45
26.	Pharande RR, SB Majee, AS Bannaliker, RS Gandge, RV Dighe, SS Moregoankar, A.Y. Doiphode, P Charan and SB Mukherjee.	20 17	Comparative Assessment of Seller's Staining Test Direct Fluorescent Antibody Test Real- Time PCR for Diagnosis of Rabies in Dogs	Intl. J Current Microbiology & Applied Science 1222-1228.	6(6)	--
27.	Thorat VD, AS Bannaliker, A Doiphode, SB Majee, RS Gandge	20 17	Isolation Identification &Molecular Detection of Brucella abortus from Cattle & Buffalo	Intl. J Current Microbiology & Applied Science: 2853-2864.	6(10)	--

	and SA Ingle.					
28.	Khade SB, Pawar VD, Doiphode AY , Sawane MP and UD Umrikar.	20 14	Genotyping of Holstein Friesian crossbred cattle for CVM and FXI deficiency loci.	Indian Journal of Veterinary and Animal Science Research.	43(5)	4.11
29.	Khade AS, AY Doiphode , UD Umrikar, MP Sawane and VD Pawar.	20 14	Genotyping of the HF Crossbred Cattle for CD18 Gene using PCR-RFLP.	Veterinary World. /May-2014/18.pdf	Vol.7	7.60
30.	Arunmozhi N, SK Singh, T Sarath, SK Agarwal, A Doiphode and U Shankar.	20 14	Molecular characterization of oxytocin receptor gene in water buffalo (<i>B. bubalis</i>).	Reproduction in Domestic Animals 10.1111/rda.12389.		7.70
31.	Shah TM, JS Patel, CD Bhong, AY Doiphode , UD Umrikar, SS Parmar, DN Rank, JV Solanki and CG Joshi.	20 13	Evaluation of genetic diversity and population structure of west-central Indian cattle breeds.	Animal Genetics. doi: 10.1111/age.12013.		8.40
32.	Doiphode A , KS Rajaravindra , D Das and A Mitra.	20 09	Molecular cloning and characterization of SLC11A1 cDNA in Japanese Quail (<i>Coturnix Coturnix Japonica</i>).	Veterinary Immunology and Immunopathology 129: 143-146	129	7.80
33.	Doiphode AY , Sawane MP, Pawar VD, Chilgunde SN and Asalkar CS.	20 05	Studies on Growth Hormone Gene Polymorphism in Crossbred Cattle (Gir X HF)	Journal of Bombay Veterinary College. 121-122.	13 (1&2)	--
34.	A brief review of lactation curve models for predicting milk yield	20 21	Brar, R. P. S., Kaur, S., & Shende, T. C.	The Pharma Innovation Journal (2021); SP-10(6): 514-520	5.23	

	and various factors influencing the lactation curve in Murrah buffalo.					
35.	Association of semen attributes with FSH- β gene polymorphism in Holstein-Friesian crossbred bulls from India.	20 20	Vijay, K., Abhijit, B., Tejas, S., Sameer, J., Pranav, K., Pavan, P., Mahesh, R. and Hemant, B.	Haryana Vet. (December, 2020) 59(2), 231-235	5.58	
36.	Association of semen traits in consecutive ejaculates with FSH- β gene polymorphism in Holstein-Friesian crossbred bulls from India	20 20	Vijay Kadam; Abhijit Barate; Tejas Shende; Sameer Jadhav; Mahesh Rangnekar; Kavita Khillare; Hemant Birade	Haryana Vet. (March, 2020) 59(SI), 38-40	5.58	
37.	Associations between physico-morphological characteristics and antioxidants in Murrah Buffalo semen.	20 20	Magdum, R. R., Amle, M. B., Rangnekar, M. N., Jadhav, S. N., Khillare, K. P., & Shende, T. C.	Haryana Vet. (March, 2020) 59(SI), 27-30	5.58	
38.	Factors affecting growth traits of	20 20	Doiphode, A. Y., Waghmode, P. S., Shende, T. C., & Sonawane, G. S.	Livestock Research International January-March, 2020 Volume	3.90 (NAAS-2020)	

	Osmanabad i goat.			08 Issue 01 Pages 05-07		
39.	In Silico Characterization of β -Defensin-1 Complementary Deoxyribonucleic Acid from Osmanabad i Goat	20 21	Vipul ¹ , Barate Abhijit K ² , *, Shende Tejas C ¹	Journal of Animal Research (2021), Volume: 11, Issue: 1 127-130	5.43	
40.	Performance of Holstein Friesian crossbred cattle fed on urea treated sugarcane top silage.	20 19	Gade, M. G., Khanvilkar, A. V., Bhalerao, S. M., Hande, S. T., Rangnekar, M. N., & Shende, T. C.	Haryana Vet. (Dec., 2019) 58(2), 207-208	5.58	
41.	Sequence analysis of β -defensin-1 gene of Osmanabad i Goat.	20 20	Barate, A. K., Shende, T. C., & Kadam, V.	Bioinfolet (2020) -A Quarterly Journal of Life Sciences, 17(4a), 520-522.	3.75 (NAAS-2020)	
42.	Sequence characterization of partial TLR4 gene in Indian crossbred cattle.	20 20	Shende, T. C., Vipul, D. A. K. B., & Doiphode, A.	Journal of Entomology and Zoology Studies 2020; 8(1): 900-903	5.53 (NAAS-2020)	
43.	Genotyping of HF crossbred cattle for β -casein genes using PCR-RFLP	20 17	Indian Research Journal of Extension Education 2017 Vol.17 No. Special Issue pp.105-107 ref.13	T.C. Shende ¹ , P.S. Kulkarni ² and P.C. Pawar ³	NAAS Listed	
44.	Molecular characterization of partial FSH β gene	20 18	Journal of Entomology and zoology studies (2018); 6 (6): 327-331	Vijay K Kadam, Abhijit K Barate, Tejas C Shende and Hemant S Birade	NAAS Listed	

	in Indian crossbred (Holstein Friesian and Sahiwal) bull					
45.	Molecular Characterization and SNP analysis of partial FSHB gene in Indian crossbred (HOLSTEIN FRIESIAN AND GIR) Bull	2018	International Journal of Agriculture Sciences 10.20 (2018):7342-7344.	KADAM V.K. ¹ , BARATE A.K. ^{2*} , SHENDE T.C. ³ , BIRADE H.S. ⁴	NAAS Listed	
46.	Study of supplementation of chromium propionate on blood biochemical parameters of lactating Murrah buffaloes (Bubalus Bubalis)	2018	Journal of Bombay Veterinary College (2018) 25(2):62-64	C.D. Vanjari, S.M. Bhalerao*, A. V. Khanvilkar, V.R. Patodkar and T.C. Shende	NAAS Listed	
47.	Socio Economic Status and Sheep Husbandry Practices of Migratory Shepherds in Western Maharashtra	2019	INDIAN JOURNAL OF PURE & APPLIED BIOSCIENCES 7 (2): 105-112 (2019)	S. G. Shirsat ¹ , S. R. Kolhe ² , M. P. Nande ^{3*} , A. V. Khanvilkar ⁴ and T. C. Shende ⁵	NAAS Listed	
48.	Single Nucleotide Polymorphism		International Journal of Livestock Research, 9(3), 313-319. doi:	Vijay K. Kadam ¹ , Abhijit K. Barate ^{2*} ,	NAAS Listed	

	Analysis in Exon 3 of Fsh β Gene in Holstein Friesian and Gir Crossbred Bull		10.5455/ijlr.20181128101051	Tejas C. Shende ³ and Hemant S. Birade ⁴		
49.	Pattern of migration followed by migratory shepherds of western Maharashtra	2019	International Journal of Agriculture Sciences Volume 11, Issue 7, 2019, pp.-8242-8245.	SHIRSAT S.G. ¹ , KOLHE S.R. ² , ¹ , NANDE M.P. ¹ , KHANVILKAR A.V. ² AND SHENDE T.C. ³	NAAS Listed	

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1.	Aakash Doiphode. on	2017	Issues regarding breeding policy and conservation of indigenous breeds in India.	Mahavet Technical Summit-2017	February-2017, pp 66-71
2.	Doiphode AY , RKS Bais, RJ Patil and D Das.	2007	Broiler Breeder Chicks Management.	Poultry Punch	Sept. 2007 pp 6-24.
3.	Doiphode AY , RKS Bais, RJ Patil and D Das.	2007	Management of Broiler Breeder Growing Stock	Poultry Punch	Dec. 2007 pp 7-19.
4.	RKS Bais, E Yhome and A Doiphode.	2007	Methods of Mating in Chicken.	Poultry Punch	Dec. 2007 pp 57-58
5.	Doiphode A , RKS Bais, KS Rajaravindra and D Das.	2008	Management of Broiler Breeders during laying.	Poultry Punch	Apr. 2008 pp 11-24.
6.	Patil RJ, RD Patil, MM Kadam, and AY Doiphode.	2008	Effect of Mycotoxins on Egg production.	Poultry Line.	Apr. 2008 pp 18-20.
	Dr. T.C. Shende	2015-2016	"Shelipalanatil nondi Tharatil Phayadyachya"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Shelyanchi Vahatukidarmyan Ghyavayachi Kalaji"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Shelyancha aahar aani arogyavar laksha"	Agrowon newspaper	

	Dr. T.C. Shende	2015-2016	"Kami kara shelyanchya vyavasthapanavaril kharch"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Jativant Janavaranchi nondani aavashyak"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Shelyanchya Prajananavar Parinam karanare Ghatak"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Prakriya karun charyachi poushtikata vadhava"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Yogya vyavasthapanatun rogprasar tala"	Agrowon newspaper	
	Dr. T.C. Shende	2015-2016	"Velich kara shelyanmadhil jantnirmulan"	Agrowon newspaper	
	Dr. T.C. Shende	2016-2017	"Vyavasay vrudhisathi Sarkari yojanancha labh ghya"	Agrowon newspaper	
	Dr. T.C. Shende	2016-2017	"Anusuchit jati jamatitil labharthyansathi vividh yojana"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Grahakanchya garajenusar shelyanche Vikrivyavasthapan"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Yogya vayat kara bokadache khacchikaran"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Adachani olakhun vyavasayache niyojan"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Shelyanche Vikrivyavasthapan tantra"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Shelipalanasathi nivada yogya paddhat"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Swachhya matannirmitiche nikash"	Agrowon newspaper	
	Dr. T.C. Shende	2017-2018	"Shelyanchya jantnirmulanakade dya laksha"	Agrowon newspaper	
	Dr. T.C. Shende	2020	Pashushikshan Kshetratil Sandhi	Agro-won daily newspaper	
	Dr. T.C. Shende	2020	Andi prakriyetil vyavasayik sandhi	Agro-won daily newspaper	
	Dr. T.C. Shende	2020	Satatyapurn Dudh Denari Nili- Ravi	Agro-won daily newspaper	

6. Research Recommendations

1	Project Title	Development of mobile application for prediction of live body weights in cattle
	Investigators	T.C. Shende
	Name of the college	KNP College of Veterinary Science, Shirwal
	Recommendation	It is recommended to use Pashubhar mobile application for prediction of live body weight of HF crossbred cattle considering selected body dimensions measurements.
	शिफारस	होलस्टेन फ्रिजियन जातीच्या संकरित जनावरांमध्ये शरीराच्या निवडक मोजमापांचा वापर करून त्यांच्या वजनाचा अचूक अंदाज लावण्यासाठी "पशुभार" मोबाइल एप्लीकेशनचा वापर करण्याची शिफारस करण्यात येत आहे.

2	Project Title	Development of mobile application for prediction of live body weights in cattle
	Investigators	T.C. Shende
	Name of the college	KNP College of Veterinary Science, Shirwal
	Recommendation	It is recommended for scientists and farmers to use the multiple regression equation $y = -1049.436 + (3.144) * \text{Heart Girth} + (2.656) * \text{Abdominal Girth} + (1.161) * \text{Scapulo Ischial Length} + (1.028) * \text{Height at Withers} + e$ may be used with 84.9 % accuracy for the prediction of the live body weight of HF crossbred cattle.
	शिफारस	शास्त्रज्ञ आणि शेतकऱ्यांनी होस्टेन फ्रिजियन जातीच्या संकरित जनावरांचे अंदाजित वजन ८४.९ टक्के अचूकतेसह माहिती करून घेण्यासाठी (अंदाजित वजन (y) = $-1049.436 + (3.144) * \text{छातीचा घेर} + (2.656) * \text{पोटाचा घेर} + (1.161) * \text{शरीराची लांबी} + (1.028) * \text{खांद्याची उंची} + e$) या बहुविध प्रतिगमन करणाऱ्या वापराच्या शिफारस करण्यात येत आहे.

3	Project Title	Prediction of live body weight using linear body measurements in Pandharpuri buffalo
	Investigators	T.C. Shende, A.Y. Doiphode, A.K. Barate, S.M. Bhalerao, and M.N. Rangnekar
	Name of the college	KNP College of Veterinary Science, Shirwal
	Recommendation	It is recommended for scientists and farmers to use the multiple regression equation $y = -259.90 + (4.612) * \text{NG} + (2.47) * \text{DHK} + (1.529) * \text{SIL} - (1.79) * \text{HAW} + (0.799) * \text{AG} + e$ with 86.5 % accuracy for the prediction of the live body weight of Pandharpuri buffaloes.

शिफारस	शास्त्रज्ञ आणि शेतकऱ्यांनी पंढरपूरी म्हशींचे अंदाजित वजन ८६.५ टक्के अचूकतेसह माहितीकरून घेण्यासाठी (अंदाजित वजन (y) = -२५९.९० + (४.६१२) * मानेचा घेर + (२.४७) * ढोपर हाडांमधील अंतर + (१.५२९) * शरीराची लांबी -(१.७९) * खांद्याची उंची + (०.७९९) * पोटाचा घेर + e) या बहुविध प्रतिगमन समीकरणाचा वापर करण्याची शिफारस करण्यात येत आहे.
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7. MOU signed by the Colleges

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

8. Research Priorities / Thematic areas: Department Wise

1. Genotyping/ Genetic Profiling of different farm animals for production and immunity traits
2. Development and utilization of prediction models to optimize farm animal production system.
3. Transgenic research for the production of superior germplasm
4. Development of gene-based vaccines

9. Significant Research Achievement:

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