

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	Establishment of community based Animal Husbandary practices in tribble villages of Gadchiroli district of Maharashtra state	Dr.Manoj S. Patil	TSP, ICAR, New Delhi	Rs. 36.32 Lakhs	Extra-mural	Completed	2014-2016
2	Evaluating indigenous medications for the treatment of lactational anoestrus and retention of placenta in bovine	Dr.Manoj S. Patil	NIF-India	Rs.0.98 Lakhs	Extra-mural	Completed	2013-2014
3	Evaluating indigenous medications for the treatment of lactational anoestrus and retention of placenta in bovine		NIF-India	Rs.9.48 Lakhs	Extra-mural	Completed	2014-2016
4	Establishment of community based Animal Husbandary practices in tribble villages of Gadchiroli		TSP, ICAR, New Delhi	Rs. 6.50 Lakhs	Extra-mural	Completed	2017-2018

	district of Maharashtra state						
5	Establishment of community based Animal Husbandary practices in tribble villages of Gadchiroli district of Maharashtra state	Dr.Manoj S. Patil	TSP, ICAR, New Delhi	Rs. 7.25 Lakhs	Extra-mural	Completed	2019-2020
6	Strengthening of ETT/IVF Centre at Maharashtra Animal & Fishery Sciences University, Nagpur	Dr.S.K.Sah atpure	Rashtriya Gokul Mission , Govt. of India	Rs.2.97 Crs	Extra-mural	Ongoing	2018-2021
7	Evaluating indigenous medications for the treatment of lactational anoestrus and retention of placenta in bovine	Dr.Manoj S. Patil	NIF-India	Rs.1.48 Lakhs	Extra-mural	Completed	2018-2020

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/On going)	Duration
1	“Evaluation of efficacy of polyherbal uterine cleanser and restorative products for treatment of various reproductive disorders in cows”	Dr. S. K. Sahtpure	Ayurved Limited, Baddi, Solan, H.P.	1.00	Extra-mural	Completed	2014-2015
2	Ovarian response after treatment with Janova and Estrofarm in post partum anestrus and other cases of specific and Non-specific	Dr. S. K. Sahtpure	Ayurved Limited, Baddi, Solan, H.P.				2015-2016

	anestrous in cattle ”						
3	Ovarian response after treatment with AV/OIP/ 22 in post partum anestrus & other cases of specific & non specific anestrous in cows & buffaloes	Dr. S. K. Sahtpure	Ayurved Limited, Baddi , Solan, H.P.	1.55	Extra-mural	Comple ted	2018- 2019

3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1	Assisted Reproductive Biotechniques (IVF-ET)	Genetic improvement of Indigenous Animal	To improve the local germ plasm in respect of milk production	High milk producing female caves will be available to farmers

4. Thesis:

Master:

Name of Department : Department of Animal Reproduction, Gynaecology and Obstetrics				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	S.S.Pawar	Studies on post partum reproductive status in cows with normal and retained fetal membranes treated with ayurvedic preparations	2004	Dr.S.C.Vhora
2	M.S.Bawaskar	Comparative efficacy of non hormonal drugs in the treatment of postpartum anestrus cows	2004	Dr.S.C.Vhora
3	V.A.Deshpande	Studies on some remedial measures in canine pyometra	2005	Dr.S.C.Vhora
4	L.A.Khan	Comparative efficacy of certain therapeutic regimens in canine pyometra	2006	Dr.D.S.Raghuwanshi
5	S.G.Utage	Efficacy of norgestomate and PGF ₂ alpha in treatment of anoestrus buffaloes	2006	Dr.D.S.Raghuwanshi
6	P.R.Sirsath	Comparative pregnancy diagnosis by ultrasonography, radiography and abdominal palpation in bitches	2007	Dr.D.S.Raghuwanshi
7	A.B.Deshmukh	Cryopreservation of cauda epididymal spermatozoa of goat (Capra hircus)	2007	Dr.D.S.Raghuwanshi

8	B.M.Raut	Ultrasonographic monitoring of early pregnancy in cows	2008	Dr.D.S.Raghuwanshi
9	P.R.Wankhede	Studies on different methods of cryopreservation of black buck semen collected by electro ejaculation	2008	Dr.D.S.Raghuwanshi
10	Y.M.Raghorta	Synchronization of oestrus with ovsynch protocol (GnRH-PGF2alpha-GnRH) in heifers and postpartum buffaloes	2009	Dr.S.R.Chinchkar
11	J.D.Raut	Semen characteristics in German shepherd dogs	2009	Dr.S.K.Sahatpure
12	T.S.Varma	Biochemical composition of allantoic and amniotic fluid in different stages of pregnancy in goat	2010	Dr.S.K.Sahatpure
13	S.B.Gote	Synchronization of oestrus with two different hormonal protocols in cows under field conditions	2010	Dr.S.R.Chinchkar
14	Mohd.Arif	Induction of oestrus in postpartum anestrus buffaloes with lugol's iodine and GnRH treatments	2011	Dr.S.R.Chinchkar
15	A.S.Aitalwad	To assess the effect of insulin and ovsynch on induction of estrus in anestrus buffaloes	2011	Dr.A.P.Gawande
16	S.M.Zarkar	Effect of CIDR on oestrus behaviour and conception rate in buffalo heifers.	2011	Dr.S.K.Sahatpure

17	D.R.Karhe	Induction of oestrus using hormonal and non-hormonal drugs in postpartum anoestrus cows during low breeding season	2012	Dr.S.K.Sahatpure
18	V.N.Gite	Cryopreservation of encapsulated buffalo bull Semen	2012	Dr.M.S.Patil
19	S.B.Rathod	Comparative efficacy of immunomodulators on fertility in crossbred cows with subclinical endometritis	2012	Dr.A.P.Gawande
20	T.M.Watane	Induction of accessory corpus luteum using GnRH and hCG hormone for enhancing conception rate in repeat breeding crossbred cows	2013	Dr.S.K.Sahatpure
21	R.D.Pawar	Incidence of uterine inertia and treatment with two different protocols in bitches	2013	Dr.K.P.Khillare
22	K.A.More	Comparative studies on efficacy of GnRH and clomiphene citrate for induction of estrus in true anestrus crossbred cows	2013	Dr.A.P.Gawande
23	C.K.Lakde	Cryopreservation of encapsulated canine semen.	2014	Dr.M.S.Patil
24	Umesh Kumar	Pre and post freeze semen evaluation in pure and crossbred bulls with special reference to spermatozoal plasma	2014	Dr.A.P.Gawande

		membrane, acrosome and DNA integrity tests.		
25	Mohan Baitule	Effect of herbal supplementation on fertility management of delayed pubertal buffalo heifers	2015	Dr.A.P.Gawande
26	S.V.Dhalkari	Comparative efficacy of progesterone administration for oestrus induction and conception rate in Murrha buffaloes.	2015	Dr.S.K.Sahatpure
27	S.R.Khopade	Reproductive performance of plastic consuming cows	2015	Dr.M.S.Patil
28	Prasanna Pati	Detection of early pregnancy in Osmanabadi goats by different techniques	2015	Dr.S.K.Sahatpure
29	Erose R.S.	Study on reproductive management practices followed by tribal in Gadchiroli district of Maharashtra State	2016	Dr.M.S.Patil
30	Jagyaseni Meher	Cloprostenol and Cabergoline therapy in cystic endometrial hyperplasia-pyometra complex in bitches	2016	Dr.A.D.Patil
31	Niti Kopal Bante	Determination of ovulation timing by using different techniques in bitches	2017	Dr.S.K.Sahatpure

32	Vilas U. Takle	Improvement of reproductive performance by use of controlled breeding programme in Osmanabadi goats.	2018	Dr.M.S.Bawaskar
33	G.S.Nalkande	Use of cabergoline alone and combination with vitamins supplementation for induction of estrous in bitches	2018	Dr.A.D.Patil
34	Abhishek Bharadwaj	Comparative efficacy of various therapeutic protocols for incomplete cervical dilatation in goats	2019	Dr.M.S.Bawaskar
35	Ravi.D.Musale	Effect of oestrus synchronization treatment on characteristics of corpus luteum in cows	2021	Dr.M.S.Patil
36	Prajakta U.Barge	Comparative Efficacy of Non-Hormonal Drugs on Pseudo pregnancy In Bitches	2021	Dr.M.S.Bawaskar
37	Sameer H. Shendre	Superovulatory response and embryo recovery in Gir cows.	2021	Dr.M.S.Patil
38	Shital Yesambare	Effect of breeding history and age on hyperplasia of prostate gland in dogs	2021	Dr.M.S.Bawaskar
39	Saddam Hussain	Follicle Ablation or Removal through ovum pick-up technique in bovines.	2023	Dr.D.S.Raghuwanshi
40	Shital Munjewar	Effect Of Coasting Period Following Super Stimulation On	2024	Dr.D.S.Raghuwanshi

		Transvaginally Retrieved Oocyte Yield And In Vitro Blastocyst Production In Indigenous Cows		
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Doctoral:

Name of Department:				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1	Dr.D.S.Raghuwanshi	Gynaecological investigations on postpartum reproductive status and its management with recent therapeutical measures in cows	2008	Dr.S.C.Vhora
2	Dr.A.D.Patil	Controlled breeding programme for improvement of fertility in post partum anoestrous Buffaloes	2018	Dr.S.K.Sahatpure
3	Dr.M.S.Bawaskar	Therapeutic management of uterine inertia in bitches	2018	Dr.S.K.Sahatpure
4	C.K.Lakde	Efficacy of various therapies in non infectious repeat breeder dairy cows for fertility augmentation	2020	Dr.S.K.Sahatpure
5	Dr.A.P.Gawande	Metagenomics of cattle uterine microbiota in healthy and infectious conditions	2020	Dr.S.K.Sahatpure
6	Akshay Bind	Effect of different oestrus synchronization protocols on superovulatory response and number of TVOR aspirated oocytes in cows	2022	Dr.A.P.Gawande
7	Megha Kose	Effect of different culture media on developmental competence of transvaginally aspirated oocytes in cows	2022	Dr.M.S.Patil

1. 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	CH Pawshe, SK Sahatpure, MS Patil, SG Deshmukh, WAA Razzaque	2004	Effect of different folltropin doses in buffaloes	The Indian Journal of Animal Sciences	Volume 74 (10)	6.38
2	CH Pawshe, SK Sahatpure, SG Deshmukh, MS Patil, AP Gawande	2004	Effect of Crestar ear implant on oestrus in buffaloes in three different seasons	Indian Journal of animal Science	Volume 74 (10)	6.28
3	SK Sahatpure, MS Patil	2008	Synchronisation of oestrus with Prostaglandin F2 alpha analogue in non-descript cow	Veterinary World	Volume 1 (7), 203-204	5.71
4	Sadanand D. Sontakke, Manoj S. Patil, Govindhaswamy Umapathy, K. Ramachandra Rao and Sisinthy Shivaji	2009	Ejaculate characteristics, short-term semen storage and successful artificial insemination following synchronisation of oestrus in the Indian blackbuck antelope (Antilope cervicapra)	Reproduction Fertility and Development	Volume 21, 749-756	8.66
5	Sadanand D. Sontakke & Govindaswamy Umapathy & Manoj S. Patil & Sisinthy Shivaji	2009	Tolazoline antagonises ketamine-xylazine anaesthesia in an endangered Black buck (Antilope cervicapra)	Eur J Wildl Res (2009)	Volume 55:357-361	7.26

6	Siddiqui, M. F. M. F., M.S. Patil, K.M.Khan, and L.A.Khan	2009	Sudden Death Syndrome – An Overview	Veterinary World,	Vol.2(1 1):444- 447	5.71
7	S.D. Sontakke, M.S. Patil, U. Lakshmikantan, S. Shivaji	2012	Ultrasonographic characterization of ovarian follicular development in the Indian blackbuck antelope (Antelope cervicapra)	Small Ruminant Research 105	Volume 1 (6) 222– 230	6.95
8	U Kumar, AP Gawande, SK Sahatpure, MS Patil, CK Lakde, SW Bonde,	2015	Assessment of semen quality in pure and crossbred Jersey bulls	Veterinary world	Volume 8 (10), 1266- 1269	5.71
9	U Kumar, AP Gawande, SK Sahatpure, MS Patil, SK Rajak	2015	Sperm abnormalities for determining semen quality in bulls at frozen stage	Indian Journal of Veterinary Research (The)	Volume 24 (2), 17-20	4.49
10	Dr.A.D.Patil Dr. S. P. Awandkar Dr. S. K. Sahatpure Ms. Prasanna Pati Dr. M.S. Patil	2016	“Antibiotic Sensitivity test and treatment of repeat breeding in canines- a clinical study of six bitches	INTAS Polivet	Volume 16(II) 233- 234	4.69
11	Rajalaxmi Behera*, M.D. Kothekar, D.S. Kale, K. Krishnamurthi, A.R. Sirothia, D.R. Kalorey and M.S. Patil	2016	Study of mutations in aminolevulinic acid dehydratase (ALAD) gene in cattle from fly ash zone in Maharashtra, India	Indian J. Anim. Res.,	Volume 50 (1) 2016: 19-22	6.04
12	Ms. Prasanna Pati Dr. S. K. Sahatpure	2016	“Detection of early pregnancy in Osmanabadi goats	Veterinary Practitioner	Volume 16(2)	3.78

	Dr. M.S. Patil Dr. A. P. Gawande		by different techniques”		196-198	
13	Prasanna Pati, S.K. Sahatpure, A. D. Patil, Umesh Kumar, Basanti Jena, A.K. Nahak	2016	Prediction of Gestational age in Osmanabadi Goats by Ultrasonic Measurement of Crown-Rump length	The Indian J. of Vet. Sci. & Biot.	Volume 12(2), 75-78	4.53
14	M.S. Bawaskar, D.S. Raghuwanshi, S.K. Sahatpure and S.S. Bawaskar	2017	Comparative Efficacy of Fertivet and Janova in the Treatment of Post Partum Anestrus in Cows	Indian Research Journal of Extension, Education.	Volume 17, special issue, January ,2014. 82-84	4.81
15	A.D.Patil S. K. Sahatpure M.S. Bawaskar S.V.Upadhye A. P. Gawande	2017	Non surgical approach of estrual vaginal prolapse- a report of 6 cases	Ind. Journal of Canine Practice,	Volume 9, issue 1, June, page no.27-29.	4.42
16	Meher, J., A.D. Patil, S.K. Sahatpure, G. R. Bhojne and M.S. Bawaskar	2017	Effect of cystic endometrial hyperplasia-pyometra complex on haemato-biochemical parameters in bitches.	Ind. Journal of Canine Practice,	Volume 9, issue 1, June, page no.38-42.	4.42
17	M.S. Bawaskar, S.K. Sahatpure, M.S. Patil, S.V. Upadhye, S.B.Akhre and M.S. Patil	2017	Incidence of uterine inertia in bitches of Nagpur city.	Ind. Journal of Canine Practice	Volume 9, issue 2, June, page no.127-130	4.42
18	M.S. Bawaskar, S.K. Sahatpure, M.S. Patil, S.V. Upadhye, S.B.Akhre and M.S. Patil	2017	Therapeutic management of primary uterine inertia in bitches	Ind. Journal of Canine Practice	Volume 9, issue 2, June, page no.131-133	4.42

19	A.D. Patil, S.K. Sahatpure, N. Bante, C. Lakde and B.M. Gahlod	2017	Acardius Acephalus Monster in a Goat.. S. Dhalkari, S.K. Sahatpure,	Indian Journal of Animal Reproduction	Volume 38 (2): 69-70	--
20	A.D. Patil, S.K. Sahatpure, P.T. Jadhao, J.P. Korde, M.S. Patil and D.V. Patil	2017	Efficacy of various hormonal protocols for improvement of fertility in post partum anoestrus buffaloes during breeding season.	Veterinary Practitioner	Volume 18(1):3 2-34	5.00
21	A.D. Patil, S.K. Sahatpure, P.T. Jadhao, J.P. Korde, M.S. Patil and D.V. Patil	2017	Improvement of Fertility in Postpartum Anoestrus Buffaloes by using Different Hormonal Protocols during Non Breeding Season.	The Indian Journal of Veterinary Sciences & Biotechnology.	Volume 13(2): 38-42.	4.47
22.	A.D. Patil, Neetikopal Bante, S.K. Sahatpure and S.K. Sheetal	2017	Partial Fetotomy for Management of Emphysematous Foetuses in Buffaloes.	Intas Polivet	Volume 18 (II):430 -431.	4.79
23	A.D. Patil, C.K. Lakde, S.K. Sahatpure and A.P. Gawande.	2017	Surgical Management of Pre-partum Cervico-vaginal Prolapse - A Report of Six Cows.	Intas Polivet	Volume 18 (II):439 -440	4.79
24	A.D. Patil, V.U. Takle, S.K. Sheetal, S.K. Sahatpure and Gauri S. Nalkande	2017	Surgical Management of Post-partum Uterine Prolapse - A Report of Five Cows.	Intas Polivet	Volume 18 (II):441 -442.	4.79
25	A.D. Patil, P. Pati and A.P. Gawande	(2018)	Estrus induction response following hormone treatment in Murrah Buffalo.	Indian Journal of Animal Reproduction	Volume 39 (1):61-62	--
26	S.K. Sheetal, A.D. Patil, S.K. Sahatpure, B.M. Gahlod and S.B. Akhare	(2018)	Management of dystocia due to primary uterine inertia in a Mare.	International Journal of Science, Environment and Technology,	Volume 7 (2) 584 – 587.	3.98
27	U.V. Takle, M.S. Bawaskar, S.K. Sahatpure,	2018	Serum progesterone profile of controlled breeding	International Journal of Science,	Volume 7, No 5,	3.98

	D.S.Raghuwnshi . G.R. Bhojne & D.V. Patil		Programme treated Osmanabadi goats	Environment and Technology,	1766 – 1771.	
28	M.S.Bawaskar, Sahatpure S.K., Sheetal S.K., V.U. Takle and Bhardwaj A.	2018	Mummified <i>schistosomus</i> <i>reflexus</i> co-twinning with normal goat foetus – A rare case report	International Journal of Science, ET	Vol. 7, No 4, 1479 – 1482.	3.98
29	Neeti Bante, S.K.Sahatpure, A.D.Patil, S.V.Upadhye & Bawaskar M.S.	2018	Comparative study of determination of ovulation timing in bitches.	Indian Journal of canine practice	Vol.10, issue 1, June , pp-46-	4.42
30	M.S. Bawaskar, S.K. Sahatpure, S.V. Upadhye, M.S. Patil, and S. Bawaskar.	2018	Influence of litter size, sex of the fetus and breed on the birth weight of puppies	Indian Journal of canine practice	Vol.10, issue 2, Decem ber,pp- 123- 126.	4.42
31	M.S. Bawaskar, S.K. Sahatpure, S.V. Upadhye, M.S. Patil and G.R. Bhojne	2018	Comparative influence of antenatal foetal presentation position and posture on sixty primary uterine inertia bitches.	Indian Journal of canine practice,	Vol.10, issue 2, Decem ber,pp- 131- 133	4.42
32	A.D. Patil, S.K. Sahatpure and S.K. Sheetal	2018	Management Of Pseudopregnancy In Bitches	Indian Journal of canine practice,	Vol.10, issue 2, Decem ber,pp- 143- 144	4.42
33	C.K.Lakde,S.K.Sa hatpure, S.K. Sheetal, A.D. Patil, S.V. Upadhye, J.P. Korde and D.V. Patil	2018	Effect of GnRH on 5th Day of Post Artificial Insemination for Fertility Augmentation in Repeat Breeder Dairy Cows	Int.J.Curr.Microbiol. App.Sci	Volume 7(10): 466- 468	5.38
34	A.D.Patil, S.K. Sahatpure,	2018	Efficacy of various hormonal protocols	Veterinary Practitioner	Volume 18(1):	4.55

	P.T.Jadhao, J.P. Korde and D.V. Patil		for improvement of fertility in post partum anoestrus buffaloes during breeding season		June. 32-34	
35	Dhalkari S., S.K. Sahatpure, A.D. Patil, P. Pati and A.P. Gawande (2018).	2018	Estrus induction response following hormone treatment in Murrah Buffalo.	Indian Journal of Animal Reproduction	Volume 39 (1) : 61-62.	3.43
36	Sheetal S.K., A.D. Patil, S.K. Sahatpure, B.M. Gahlod and S.B. Akhare	2018	Management of dystocia due to primary uterine inertia in a Mare.	International Journal of Science, ET and Technology	Volume 7 (2) 584 – 587	3.98
37	Meher, J., A.D. Patil, S.K. Sahatpure, G. R. Bhojne and D.V. Patil	2018	Efficacy of cloprostenol and cabergoline therapy in cystic endometrial hyperplasia-pyometra complex bitches.	Indian Journal of Canine Practice.	Volume 10(1):24-28.	4.42
38	Gauri S. Nalkande, A.D. Patil, S.K. Sahatpure and V.U.Takle	2018	Treatment of Uterine Prolapse in Caprine.	Indian Vet. Journal	Volume (04): 67 – 68	4.42
39	A. P. Gawande, S. K. Sahatpure, N.V. Kurkure, S.B. Akhare, J. P. Korde, S. P. Choudhari and M. S. Patil	2018	Serum biochemical profile of crossbred cows during healthy and infectious uterine conditions –	Veterinary Practitioner	Vol. 19 No. 2 December 2018	5.00
40	Lakde C.K., Patil M.S., Sahatpure S.K., Gawande A.P. and Umesh Kumar	2018	Standard protocol for encapsulation of canine semen -	International Journal of Science, Environment and Technology	Vol. 7, No 4, , 1296 – 1300	3.98
41	M.S. Bawaskar , S.K. Sahatpure, M.S. Patil, S.V.	2019	Influence of gestational length, litter size and parity	Indian Journal of Canine Practice	Volume 11 Issue 2,	4.42

	Upadhye and G.R. Bhojne		on partial primary uterine inertia in bitches -		December, 2019	
42	Abhishek Bhardwaj, Sheetal SK, Sahatpure SK and Bawaskar MS	2019	Management of Dystocia Due to Fetal Ascites in Boer Goat: A Case Report	International Journal of Veterinary Sciences and Animal Husbandry	Volume 4(2): 10-11	4.98
43	M.S. Bawaskar, S.K Sahatpure, M.S. Patil, S.V. Upadhye and G.R. Bhojne	2019	Comparative study of hormonal profile in primary Uterine inertia bitches	International Journal of Science, Environment and Technology,	Vol. 8, No 1, 229 – 232.	3.98
44	Gauri S. Nalkande, A.D. Patil, S.K. Sahatpure, S.K. Sheetal, and G.P. Shende	2019	Efficacy of cabergoline on induction estrus in bitches	Indian Journal of Canine Practice.	Vol. 11, No 1, June, 46-47	4.42
45	Lakde C.K., S.K. Sahatpure, A.D. Patil, S.K. Sheetal and A.A. Bind	2019	Clinical diagnosis and therapeutic management of transmissible venereal tumor in canines.	Indian Journal of Canine Practice.	Vol. 11, No 1, June 2019, 53-55.	4.42
46	Bawaskar M.S., S.K. Sahatpure, V.U. Takle, S.V. Upadhye and G.R. Bhojne	2019	A case of partial fetal maceration in german shepherd bitch and its successful management.	Indian Journal of Canine Practice.	Vol. 11, No 1, June 2019, 56-58	4.42
47	M.S. Bawaskar, S.K. Sahatpure, S.V. Upadhye, M.S. Patil, G.R. Bhojne and S.S. Bawaskar.	2019	A case of fetal dystocia due to congenital hydrocephalus with micromelia	Indian Journal of canine practice	Vol. 11, No 1, June 2019, 58-60	4.42

48	Megha Kose, S.K.Sheetal, M.S.Bawaskar, S.K.Sahatpure, and S.Yesambhare	2019	Comparative Efficacy Of Different Treatment Protocols For Pseudo-Pregnancy In Bitches	Indian Journal of canine practice	Vol. 11, No 1, June 2019, 140- 142	4.42
49	BharadwajA., M.S.Bawaskar,S. K Sahatpure, A.P.Gawande, G.R. Bhojne and D.V.Patil	2020	Serum cortisol, Calcium and Phosphorus concentrations in relation to incomplete cervical dilatation in goats	Int. J. Curr. Microbiolo. App. Sci.	Volume . 9(7) PP 628- 632. (2020)	5.38
50	AR Ratnaparkhi, SG Deshmukh, CH Pawshe, MV Ingawale, MG Thorat, SV Kuralkar, MS Patil, VB Kale and SD Chepte	2021	Effect of dietary supplementation of crushed soybean and flaxseed on ovarian response in postpartum crossbred dairy cows -	Journal of Entomology and Zoology Studies	Volume - 9(2): 2021;7 10-713	--
51	A. R. Ratnaparkhi, S. G. Deshmukh, C. H. Pawshe, M. V. Ingawale, M. V. Thorat, S. V. Kuralkar, M. S. Patil, A. U. Bhikane, S. P. Waghmare	2021	Effect of dietary supplementation of crushed soybean and flaxseed on estrus attribute in post partum cross bred cows. Indian journal of Veterinary Science and Biotechnology.	The Indian Journal of Veterinary Sciences and Biotechnology	Volume 17 (1) 1 79-81	5.58
52	Abhishek Bharadwaj, and M.S. Bawaskar	2022	Thyroid Profile of A Hypothyroidism Affected Doe: A Case Report	The Haryana Veterinarian	Volume 61, (March, 2022) 121- 122	5.58
53	S. R. Khopde, M.S.Patil, C.K. Lakde, S.K. Sahatpure and A.P. Gawande	2022	Serum trace minerals and hormone levels in plastic consumed cows –	The Haryana Veterinarian	Volume – 2022- 61(2): 281- 283	5.58

54	Megha S Kose, M.S.Patil, S.K.Sahatpure, D.S.Raghuwanshi, A.P.Gawande, N.V.Kurkure and J.P. Korde	2022	Effect of different in vitro maturation medium on cleavage and blastocyst formation rate in ovum pickup derieved oocytes in Sahiwal Cows –	The Haryana Veterinarian	Volume 61(2): 2022, 223-225	5.58
55	Dr. M. S. Bawaskar, S.K. Sahatpure, M.S. Patil, S.B. Akhare and D.V. Patil	2022	Management of Uterine Inertia In Female Dogs	Indian Journal of Canine Practice	Volume 14 Issue 2, December, 2022, PP-93-96	--
56	Dr. M. S. Bawaskar, Chetan Lakde, D.S. Raghuwanshi and S.I.Yesambare	2022	Successful Management of Unusual Uterine Prolapse In A Female Dog: A Case Report	Indian Journal of Canine Practice	Volume 14 Issue 2, December, PP-104-106	--
57	S.R.Khopde, M.S. Patil, C.K.Lakde, S.K. Sahatpure & A.P.Gawande	2022	Serum trace minerals and hormone levels in plastic consumed cows	The Haryana Veterinarian	Vol-61- Issue-2 December 2022, 281-283	5.58
58	C.K.Lakde, S.K. Sahatpure, A.D.Patil, S.K.Sheetal & A.P.Gawande	2022	Comparative study of therapies in repeat breeder cows for fertility augmentation	The Haryana Veterinarian	Vol-61- Issue-2 December 2022, - 193-195	5.58
59	A.A. Bind, A.P. Gawande, S.K.Sahatpure,	2023	Effect of different synchronization and superovulation	The Haryana Veterinarian	Volume 62	5.58

	M.S.Patil, D.S.Raghuwanshi, A.P.Dhok, M.S.Bawaskar, M.B. Gupta		protocols on number and quality of oocytes through ultrasound guided transvaginal ovum pick-up technique in cows –		March – 2023(SI): 1-4	
60	Abhishek Bhardwaj, SK Sheetal and MS Bawaskar	2023	Fruitful delivery of a live kid via Schaffer's method in goat uterine torsion	International Journal of Veterinary Sciences and Animal Husbandry	Vol-8, Issue-2, Feb 2023, 08-09	4.98
61	A.A. Bind, A.P. Gawande, S.K.Sahatpure, M.S.Patil, D.S.Raghuwanshi, A.P.Dhok, M.S.Bawaskar, M.B. Gupta	2023	Effect of different synchronization and superovulation protocols on number and quality of oocytes through ultrasound-guided transvaginal ovum pick-up technique in cows	The Haryana Veterinarian	Vol-62 (SI), March- 2023: 1-4.	5.58
62	P.J. Barge, M.S. Bawaskar, S.K. Sahatpure and D.S. Raghuwanshi	2023	Comparative Efficacy Of Non - Hormonal Drugs In The Treatment of Pseudo pregnancy In Bitches	Indian Journal of Canine Practice	Volume 15, June, 2023, Issue 1, 41-43.	--
63	M. S. Bawaskar , S.K. Sahatpure , D.S. Raghuwanshi and M.S. Patil	2023	Retrospective Study Of Whelping Symptoms Andmaternal Changes In Sixty Uterine Inertia Cases Incanines	Indian Journal of Canine Practice	Volume 15, June, 2023, Issue 1, 26-30	--
64	Neeti Kopal Bante,S.K. Sahatpure,M.S. Bawaskar and D.S. Raghuwanshi	2023	Determination Of Ovulation Timing By Vaginal Cytology Using Different Stains	Indian Journal of Canine Practice	Volume 15(2): 135- 137	--
65	Bawaskar, M.S., Lakde, C.K.,	2023	Prevalence of Transmissible	Indian Journal of Canine Practice	Volume 15(2):	--

	Raghuwanshi, D.S., Gawande, A.P. and Patil, M.S. (2023).		Venereal Tumor in Canines from Nagpur City		127-130.	
66	P.J. Barge, M.S. Bawaskar, S.K. Sahatpure and D.S. Raghuwanshi	2023	Comparative Influence Of Breed, Size, Age And Parity On Prevalence Of Pseudopregnancy In Bitches	Indian Journal of Canine Practice	Volume 15(2): 131-134.	--
67	M.S. Bawaskar, and Sahatpure, S.K.	2023	Haematological and Serum Biochemical Alterations in Uterine Inertia Affected Bitches	Ind. J. Canine Practice	Volume 15(2): 121-124.	--
68	Bharadwaj A., M.S. Bawaskar, S. K Sahatpure, A.P. Gawande, G.R. Bhojne and D.V. Patil	2023	Comparative Efficacy Of Various Treatment Protocols In Incomplete Cervical Dilatation In Goats	Haryana Vet.	Volume 62 September (SI-2), 93-95	5.58
69	Bawaskar, M.S., Lakde, C.K., Raghuwanshi, D.S., Gawande, A.P. and Patil, M.S.	2024	Successful Management of Vaginal Prolapse in Three Bitches, Ind. J. Canine Pract., 16(1): 44-46.	Indian Journal of Canine Practice	Volume 16(1): 44-46.	2.70
70	S.I. Yesambare, M.S. Bawaskar, S.K. Sahatpure, A.P. Gawande and D.V. Patil	2024	Influence of Breeding History Age and Breed on Prevalence of Prostate Gland Hyperplasia in Dogs.	Indian Journal of Canine Practice	Volume 16(1): 51-54	2.70
71	A.V. Varshini, M.S. Bawaskar, D.S. Raghuwanshi, C.K. Lakde, A.P. Gawande	2024	Successful Management Of Transmissible Venereal Tumor In Dogs With	Indian Journal of Canine Practice	Volume 16(1): 58-61	2.70

	and M.S. Patil		Chemotherapeutic Agent			
72	Varshini, A.V., Bavaskar, M.S., Raghuvanshi, D.S., Lakde, C.K., Gawande, A.P. and Patil, M.S.	2024	Clinical Management of Fetal Resorption in A Bitch.	Indian Journal of Canine Practice	Volume 16(2): 153-155	2.70
73	Varshini, A.V., Bavaskar, M.S., Raghuvanshi, D.S., Lakde, C.K., Gawande, A.P. and Patil, M.S.	2024	Successful Medical Management of Dystocia in Two Queens	Indian Journal of Canine Practice	Volume 16(2): 151-152	2.70
74	Yesambare, S.J., Bawaskar, Sahatpure, S.K., Gawande, A.P. and Patil, D.V.	2024	Study of Clinical Signs and Changes of Prostate Hyperplasia in Dogs.	Indian Journal of Canine Practice	Volume 16(2): 148-150	2.70
75	Berge, P.J., Bavaskar, M.S., Sahatpure, S.K., Raghuvanshi, D.S. and Patil, D.V	2024	Prevalence of Clinical Signs and Symptoms in Pseudo Pregnant Bitches	Indian Journal of Canine Practice	Volume 16(2): 141-144	2.70
76	A.V. Varshini, C.K. Lakde, D.S. Raghuvanshi, A.P. Gawande, M.S. Patil, G.A. Fiske And M.S. Bawaskar	2024	Successful Management Of Pre Cervical Uterine Torsion In A Buffalo	International Journal of Veterinary Sciences and Animal Husbandry	Volume 9(3): 01-03	4.61

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1	Dr. M. S. Bawaskar	2014	Provide balanced ration to animals-Part I	Agrowon, News Paper, Pune.	page no. 12
2	Dr.M.S.Bawaskar	2014	Provide balanced ration to animals-Part I	Agrowon, News Paper, Pune.	page no. 12
3	Dr.M.S.Bawaskar	2014	Care of pregnant cow and buffaloes	Agrowon, News Paper, Pune.	page no. 12
4	Dr. A. D. Patil & Dr.M. S. Bawaskar	2014	Treatment of anoetrus in dairy animals	Agrowon, News Paper, Pune.	page no. 12
5	Dr. S. K. Sahatpure	2014	Reproductive managements in goats	Agrowon, News Paper, Pune.	page no. 12
6	Dr. A. D. Patil and Dr. S. K. Sahatpure	2015	Retention of foetal membrane problem in cattle	Agrowon, News Paper, Pune.	page no. 12
7	Dr. A. D. Patil and Dr. S. K. Sahatpure	2015	Management of Infertility in milking cow	Agrowon, News Paper, Pune.	page no. 12
8	Dr.A.D.Patil & Dr.M.S.Bawaskar	2016	Faydeshir dugdh vyawsayasathi prajanan Vawasthapan	Agrowon, News Paper, Pune.	page no. 12
9	Dr.S.K.Sahatpure Dr.A.D.Patil	2016	Shelital Prajanan Vyawasthapan	Training manual cum Souvenir	page no.68
10	Vilas Takle, A.D.Patil, S.K.Sahatpure,	2017	Importance of minerals in animal reproduction in dairy animals	Jay Agrowon, Yatmal	page no.3
11	Vilas Takle, A.D.Patil, S.K.Sahatpure,	2017	Stress free animal farm,	Jay Agrowon, Yatmal,	page no.3
12	Dr. G.Nalkande, A.D.Patil, S.K.Sahatpure,	2018	Abortion in dairy animals,	Jay Agrowon, Yatmal	page no.12

13	Dr.V.U.Takle, Dr.S.K.Sahatpure, Dr.M.S.Bawaskar,	2018	Mayang baher yene, pashu prajananatil ek adthala., D	Agrotech,	page no.4
14	Dr.Megha Ko Dr.S.K.sahatpure, Dr.M.S.bawaskar,	2019	Gayi mhashinche Prajanan Vyawsthapan,	Agrowon, News Paper, Pune.	Page no 12
15	Dr. D. S. Raghuwanshi Dr. A. P. Gawande Dr. M. S. Patil Dr. M. S. Bawaskar	2023	“Shelya mendhyatil krutrim retan va sheli mendhi palan kaushalya vikas pratyakshik prashikshan karyakram”	Training manual prepared for Pashusakhi	Page no 91
16	Dr. Prajakta J. Barge, Dr.M.S.Bawaskar	2022	Treatment and management of pseudopregnanc y in female dogs by homeopathy	Pashudhan Praharee booklet, online 2022	--
17	Dr.M.S.Bawaskar	2022	Lumpy skin disease, awareness and management	Pashudhan Praharee booklet, online 2022	--
18	Dr.C.K.Lakde, Dr.D.S.Raghuwan shi, Dr.M.S.Bawaskar	2022	Abortion in cattle	Godwa sheticha , Marathi magazine.	--
19	Dr.M.S.Bawaskar, Dr.P.Tembhurne	2022	How to prevent Lumpy skin disease	Pashudhan Praharee booklet, online 2022	--
20	Dr.M.S.Bawaskar, Dr.P.Tembhurne	2022	Chicken-Bhrun Jiwan Niyamak	Pashudhan Praharee booklet, online 2022	
21	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr. M.S.Bawaskar	2023	Shelyamendhyat il prajanan mahatwa	Compendium for Pashusakhi training	page no 13
22	Dr.D.S.Raghuwan shi Dr.A.P.Gawande	2023	Shelyamendhyat i lprajanan sanstha va rutuchakra	Compendium for Pashusakhi training	page no 14-18

	Dr.M.S.Patil Dr. M.S.Bawaskar				
23	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr. M.S.Bawaskar	2023	Shelya mendhyatil maaj va tyachi lakshane	Compendium for Pashusakhi training	page no 19-22
24	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr. M.S.Bawaskar	2023	Shelya mendhyatil krutrim retnache mahatwa v paddhat	Compendium for Pashusakhi training	page no 29-32
25	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr. M.S.Bawaskar	2023	Shelyantil krutrimretan ani krutrim retnache Mahatwa	Shastrokta shelipalan prashikshan”Mahiti pustika	page no 66-69
26	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr. M.S.Bawaskar	2023	Shelya madhilmaaj ani majachi lakshnanchi olakh	Shastrokta shelipalan prashikshan”Mahiti pustika	page no 63-65
27	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Shelyanche prajanan vyavsthapan va krutrim retnacha shelimaddhe wapar tasech sheli palanatil prajanan dhone	Pashusakhi Compendium, NVC, Nagpur	page no-36-38

28	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Shelyamendhyat il prajanan sanstha ani rutuchakra	Pashusakhi Compendium, NVC, Nagpur	page no-42-44
29	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Shelyatil krutrim retnache mahatwa va krutrim retan paddhat	Pashusakhi Compendium, NVC, Nagpur	page no-45-47
30	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Shelyamendhyat il maj ani majachya lakshnanchi olakh	Pashusakhi Compendium, NVC, Nagpur	page no-56-58
31	Dr.M.S.Bawaskar Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil	2024	Estrus cycle and estrus signs in cattle	MAITRI, Prashikshan Mahiti Pustika	page no-94-98
32	Dr.M.S.Bawaskar Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil	2024	Identification of signs to detect estrus in cattle	MAITRI, Prashikshan Mahiti Pustika	page no-99- 101
33	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Artificial insemination – a useful weapon for improving genetics and production in animals, its advantages and disadvantages	MAITRI, Prashikshan Mahiti Pustika	page no-102- 104

34	Dr.M.S.Bawaskar Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil	2024	Equipment for artificial insemination of animals, Their handling and sterilization	MAITRI, Prashikshan Mahiti Pustika	page no-105- 110
35	Dr.M.S.Patil Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Bawaskar	2024	Semen collection, testing and cryopreservatio n of semen volume	MAITRI, Prashikshan Mahiti Pustika	page no-111- 114
36	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Liquid otherwise an important component for storing frozen semen	MAITRI, Prashikshan Mahiti Pustika	page no-115- 116
37	Dr.M.S.Patil Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Bawaskar	2024	Precautions to be taken before artificial insemination and method of artificial insemination	MAITRI, Prashikshan Mahiti Pustika	page no-117- 121
38	Dr.M.S.Patil Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Bawaskar	2024	Pregnancy diagnosis in cattle	MAITRI, Prashikshan Mahiti Pustika	page no-122- 124
39	Dr.D.S.Raghuwan shi	2024	Calculation of average	MAITRI, Prashikshan Mahiti Pustika	page no-125- 126

	Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar		pregnancy by artificial insemination; Reasons and remedies for low		
40	Dr.M.S.Bawaskar Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil	2024	What can be done to increase the pregnancy rate of cows and buffaloes by artificial insemination?	MAITRI, Prashikshan Mahiti Pustika	page no-127- 129
41	Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Repeat and frequent estrus, causes and management	MAITRI, Prashikshan Mahiti Pustika	page no-130- 131
42	Dr.A.P.Gawande Dr.D.S.Raghuwan shi Dr.M.S.Bawaskar Dr.M.S.Patil	2024	Information about animal female reproductive organs	MAITRI, Prashikshan Mahiti Pustika	page no-132- 133
43	Dr.Chetan Lakde Dr.D.S.Raghuwan shi Dr.A.P.Gawande Dr.M.S.Patil Dr.M.S.Bawaskar	2024	Causes of abortion in animals and its economic impact	MAITRI, Prashikshan Mahiti Pustika	page no-134- 136

8. Research Priorities / Thematic areas: Department Wise

The thrust research areas on which the department is extensively working is Assisted Reproductive Technology (IVF-ET) including different oestrus synchronization protocols, semen production and embryo transfer protocols and their efficacy in enhancing the conception rate in bovine.