

1.

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.	Expression, localization and modulatory effects of adipokines in the ovary of cyclic buffalo	Dr. Mahesh Gupta (PI), Dr. J.P. Korde (Co-PI), Dr. N. V. Kurkure (Co-PI)	SERB, New Delhi	41.01	Extra Mural	Completed	Sep. 2016 to Sep. 2019
2.	Effect of encapsulation and fortification of antioxidants (Vit C and Vit E) on post thaw bovine semen quality	Dr. Mahesh Gupta (PI),	MAFSU	2.0	MAFSU Research Grant	Completed	April 2023 to March 2024

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
	Comparative efficacy studies on heat stress ameliorating properties of AV/LAP /19 with other marketed products in broilers	PI : Dr. J. P. Korde, Co PI- Dr. K. B. Bahiram Department of Veterinary Physiology, Nagpur Veterinary College, Nagpur	Ayurvet Limited	0.70	Private Agency	Completed	March 2010 to August 2010
	Effects of acidapure liquid and acidapure powder supplementation on growth performance, gut health and digestibility of broiler chicken	PI- Dr. K. B. Bahiram Co PI- Dr. J. P. Korde Dr. Mahesh Gupta Department of Veterinary Physiology, Nagpur Veterinary College, Nagpur	Mankind Pharma Pvt Ltd., New Dehli.	3.58	Private Agency	Completed	Feb. 2023 to July 2023

3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1.	Identification and ameliorative measures for thermal stress in Livestock and Poultry	To minimize production loss during heat stress conditions (Summer Season)	1. Identification of adverse impact of heat stress in livestock and poultry 2. Finding ameliorative measures in environmental stress conditions	Maintenance of production in harsh environmental conditions
2.	Alternatives use of Acidifiers and other additives in places of antimicrobials in Livestock and Poultry	-To replace antibiotics with other feed additives	1. To determine the impact of protected acidifiers/ other additives on performance of poultry and livestock	Avoiding use of antibiotics for safety of human health

4. Thesis:

Master:

Name of Department :				
Department of Veterinary Physiology				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	Avinash Madhukarrao Pande	Comparative study on the methods of determining haematocrit values in calves	1984	Dr. V. J. Iyer
2.	Kapavarapu Hanumanthrao Ramhandrarao	Comparative studies on blood volume, plasma volume and haematocrit values in Sahiwal and crossbred cattle	1989	Dr. N.S. Mangle
3.	Prahant Manoharrao Burle	Physiological variation in blood constituents under different reproductive stages of Sahiwal and crossbred cows	1991	Dr. N.S. Mangle
1.	Sulekha Deoraoji Hiwse	Growth and development in Broilers with respect to different levels of protein intake	1992	Dr. P. A. Chorey
2.	Sandeep Vikram Singh Chhonker	Carcass quality trades in broiler chicken	1992	Dr. P. A. Chorey
3.	Namrata Pandurang Babulakar	Determination of non esterified or free fatty acid and cholesterol during advance gestation and lactation	1993	Dr. P. A. Chorey
4.	Kalpana Vasudeorao Hirwade	Augmentation of broiler meat with fish biostimulator and dynamized polymix minerals	1993	Dr. P. A. Chorey
5.	Shekar Vasantryao Vutte	Effect of thyroxine feeding on egg production in poultry	1996	Dr. M. V. Nimbalkar

6.	Vijay Dhanraj Deshmukh	Effect of feeding Ashwagandha (<i>Withania somnifera</i>) root powder on performance of broiler chicks	1998	Dr. M. V. Nimbulkar
7.	Alka Panjabrao Bhoyar	Effect of feeding Ashwagandha (<i>Withania somnifera</i>) root powder on physiological characteristic and performance of layer	1998	Dr. M. V. Nimbulkar
8.	Ramkrushna Ramchandra Nikhare	Effect of feeding Liv-52 powder on performance of broiler chicks	1999	Dr. M. V. Nimbulkar
9.	Sangita Naranrao Nirgulkar	Effect of probiotic (Protexime) on growth and haemato-biochemical profile in broiler chicks	1999	Dr. R. N. Shirbhate
10.	Mohan Chandrashekhar Fadanvis	Physiochemical changes in blood of poultry associated with injection of pancreatic extract	1999	Dr. N. S. Mangle
11.	Vinod Ramchandra Samarth	Effect of Ashwagandha root powder and potentised mineral (calcaria phosphorica) on performance of broiler chicks	2000	Dr. D. G. Jagtap
12.	Prashantkumar Mahadeorao Kapale	Haematological profile in Gaolao cattle	2001	Dr. D. G. Jagtap
13.	Prakash Madhukarrao Kekan	Comparative study on certain haemato-biochemical parameters in regular and repeat breeding cows	2001	Dr. R. N. Shirbhate
14.	Vilas Sahadeorao Pawde	Effect of lactobacilli and yeast culture supplementation on growth and haemato-biochemical profile in broilers	2002	Dr. R. N. Shirbhate
15.	Dayanand Arun Chaudhari	Studies on serum protein profile in lactating and non lactating Gaolao cows	2002	Dr. D. G. Jagtap

16.	Jayashree Dhanarajji Mokadam	Heamato-biochemical profile and growth performance in broilers supplemented with probiotic and prebiotic	2002	Dr. R. N. Shirbhate
17.	Kapil Vijaykumar Pachghare	Observations on growth performance heamato-biochemical profile in broilers supplemented with phytase enzyme	2003	Dr. R. N. Shirbhate
18.	Sanjaykumar Mahadeorao Suryawanshi	Haematology of lactating and non-lactating Gaolao cows	2003	Dr. D. G. Jagtap
19.	Shambhudeo Dadarao Kharde	Observations on growth performance, haemato-biochemical and immunological status of broilers supplemented with <i>Spirulina</i>	2004	Dr. R. N. Shirbhate
20.	Bhoyar Satish Manoharrao	Growth and , haemato-biochemical a profiles of broilers supplemented with Ashwagandha (<i>Withania somnifera</i>), Tulsi (<i>Osmum santum</i>)	2005	Dr. R. N. Shirbhate
21.	Dhenge Sandeep Amrut	Effect of Ashwagandha (<i>Withania somnifera</i>) and Bhoineem (<i>Andrographis paniculata</i>) supplementation on growth, haemato-biochemical and immunological status of broilers	2008	Dr. R. N. Shirbhate
22.	Wanker Alok Khemraj	Effect of Neem (<i>Azadirachta indica</i>) leaf powder supplementation on growth, haemato-biochemical and immunological status of broilers	2008	Dr. R. N. Shirbhate
22.	Jasutkar Ravindra Krishnarao	Observations on growth and haemato-biochemical status of broilers fed diet supplemented with feed additives	2009	Dr. R. N. Shirbhate

23.	Jasaiwal Ashishkumar Radheyshyam	Effect of ascorbic acid and follic acid supplementation on growth and haemato-biochemical profile of broilers during summer	2010	Dr. R. N. Shirbhate
24.	Chetna Pandey	Evaluation of phase of oestrus cycle through morphological characterization and preponderance of exfoliative vaginal cells in goats	2012	Dr. D. G. Jagtap
25.	Kakde Sudarshan Pandurang	Evaluation of certain excretory metabolites in blood serum and urine of cows and buffalo	2013	Dr. J. P. Korde
26.	Lad Pankajkumar Narayan	Vaginal cytology in goats for evaluation of estrous phases and its relationship with progesterone and estrogen	2014	Dr. D. G. Jagtap
27	Ankita Thakare	Expression and localization of visfatin in corpus luteum of buffalo and its influence on progesterone secretion	2018	Dr. J. P. Korde
28.	Chavan Neha Ghanshyam	Effect of supplementation of <i>Lactobacillus</i> species on growth, gut health and immunity in broilers	2023	Dr. Mahesh Gupta
29.	Waghmare Swapnali Indrajit	Effect of protected and non-protected sodium butyrate on growth performance, gut health and microbiota in broilers	2024	Dr. K. B. Bahiram
30.	Mandhale Shubham Pandurangji	Microencapsulation of Canine Semen with Antioxidants in Different Extenders for Improved Post-Thaw Semen Quality	2024	Dr. J. P. Korde
31.	Khadse Vijay Sunil	Effect of Fortification of Antioxidants with Encapsulated Spermatozoa on Post-Thaw Bovine Semen Quality	2024	Dr. Mahesh Gupta

Doctoral:

Name of Department: Department of Veterinary Physiology				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
1.	V. M. Sardar	Expression profile of visfatin in corpus luteum of buffalo ovary	2021	Dr. J. P. Korde
2.	Karuna P. Bamode	Evaluation of seminal antioxidative potential and sperm morphological characteristics in cow and buffalo bull	2021	Dr. J. P. Korde

5. Research Papers Published:
List of Research Publications:

Sr. No.	Authors	Year	Title of the Research Paper	Name of the Journal	Volume; Page Nos.	NAA S Rating, if any
6.	Jagtap D.G., Deshmukh, D.M., Rekhate, D.H., Deshmukh, G.B. and Honmode, J.D.	2001	Oxygen uptake of frozen spermatozoa of Buck preserved in egg yolk citrate glycerine diluent at post thaw and post stress stages	Indian Journal of Small Ruminant	7(1):53-54	5.11
7.	Jagtap, D.G., Deshmukh, D.M., Rekhate, D.H., Deshmukh, G.B. and Honmode, J.D.	2001	Effect of some diluents on oxygen uptake of spermatozoa of Buck at ambient temperature	The Veterinarian	25 (7):7	--
8.	Samarth, V.R., Jagtap, D.G. Dakshinkar, N.P. and Deshmukh, A.D.	2002	Effect of homoeopathic Drug (Calcarea phosphorica) on performance of Broilers	The Indian Veterinary Journal	79 (4):402-403	4.99
9.	Jagtap, D.G., Chorey, P.A., Hirwade, K.W., Hiwase, S.D., Chhonkar, S.B. and Kaple, P.M.	2002	Effect of varying dietary protein levels, restricted feeding and growth regulators on growth and development in Broilers	The Veterinarian	26:17-19	--

10.	Samarth, V.R., Jagtap, D.G., Dakshinkar, N.P., Bhojne, G.R. and Deshmukh, A.D.	200 2	Effect of Ashwagandha (Withania Somnifera) and calcarea phosphorica on performance of broilers	Indian Veterinary Medical Journal	26 (2):155-156	--
11.	Samarth, V.R., Jagtap, D.G., Dakshinkar, N.P., Nimbulkar, M.V. and Kothekar, M.D.	200 2	Effect of Ashwagandha Root Power (Withania somnifera) on performance of Broilers	The Indian Veterinary Journal	79:733-734	4.99
12.	Bahiram K. B., Talvelkar, B. A., Deshmukh, B. T., Nagvekar, A. S. and Ingole, S. D.	200 2	Blood serum mineral profile during growth in crossbred calves and heifers	J. Bombay Vet. Coll.	10(1&2):25-27	--
13.	Jagtap, D.G. and Chorey, P.A.	200 3	Ameliorating effect of homoeopathy drugs on environmental stressors in broiler chicken	The Indian Veterinary Journal	80:426-428	4.99
14.	Samarth, V.R. Dakshinkar, N.P. Jagtap, D.G. and Bhojne, G.R.	200 3	Effect of Ashwagandha (Withania somnifera) on haematobiochemical profile of broiler	Indian Journal of Animal Science	73(6): 648-649	6.20
15.		200 4	Effect of disaccharides in	J.Bombay Vet. College	12 (1& 2): 12-14.	-

	Shirbhate, R.N. and Mohsin, M.		Semen Extender on Acrosomal Integrity, Acrosin Content and Penetrating Ability of Bovine Spermatozoa.			
16.	Shirbhate, R. N. and Honmode	2005	Cryopreservation of Buck Semen in Pellets.	J. R.V.J.I.	1 (1):48-50.	
17.	Kekan , P.M. and Shirbhate R.N.	2005	Biochemical Changes during Oestrus Cycle in Regular and Repeat Breeding Crossbred Cows .	Indian Vet. Med. J.	29 (3) : 231-233 .	
18.	Shirbhate, R.N. Mohsin, M. And Mourya, S.N.	2006	Effect of Glycerol in Extender and Physio-morphological Characteristics, Acrosin Content and Penetrating Ability of Bovine Frozen Spermatozoa.	J. R.V.J.I.	2 (1) : 51-54.	
19.	Alok Wankar , Shirbhate R.N. ,K.B.Bahiram ,S. A.Dhenge	2009	Effect of Neem (Azadirachta indica) leaf Powder Supplementation on Haemato-biochemical Parameters in Broilers .	Indian J. Field Vete.	4(4) : 43-45.	
20.	S.A. Dhenge , Shirbhate R.N. , K. B.Bahiram,	2009	Haemato-biochemical Profile of Broilar Supplemented	Indian J. Field Vete.	Indian J. Field (2009)Vet. 5 (1) : 5-8.	

	A.K.Wankar, V.N. Khandait ,R. B. Patankar		with W. Somnifera (Ashwagandha)an d Andrographis Paniculata (Bhineem)			
21.	Alok Wankar , Shirbhate R.N. ,K.B. Bahiram , S.A. Dhenge, R.A.Jasutkar	200 9	Effect of Neem (Azadirachta indica) leaf Powder Supplementation on Growth in Broilers.	Vete. World	2 (10) : 396- 397 .	7.70
22.	S.D.Kharde , Shirbhate R.N. , K.B. Bahiram ,S.F.Nipane .	200 9	Effect of Spirulina Supplementation on Haematology of Broilers.	Indian Jour. Animal Physiology	4 (2) : 87 .	
23.	S.D.Kharde , R.N.Shirbhat e , K.B. Bahiram and S.F.Nipane .	201 2	Effect of Spirulina Supplementation on Growth Performance of Broilers .	Indian J. Vet. Res.	21 (1) (2012) : 66-69 .	3.12
24.	Anand, M., Korde, J. P., Rastogi, S. K. and Madan, A. K.	201 3	Evaluation of Electrical Activity of Heart Before and After Grazing in Crossbred Goats	Indian Veterinary Journal	90 (7): 90-92	4.99
25.	Anand, M., Korde, J. P., Rastogi, S. K. and Madan, A. K.	201 3	Electro- encephalographic studies on crossbred (Local x Jamunapari) female goats subjected to different feeding practices	Indian Journal of Animal Research	47 (3): 236- 239	6.35
26.	M. Gupta, S. S. Dangi, G.	201 5	Expression and localization of ghrelin and its	General and Comparative	210: 87-95	8.10

	Singh, M. Sarkar		receptor in ovarian follicles during different stages of development and the modulatory effect of ghrelin on granulosa cells function in buffalo	Endocrinolog y		
27.	K. B. Bahiram, J. R. Khan and J.P. Korde	201 8	Correlation between milk production Traits, certain hormones and serum biochemical parameters in lactating Murrah buffaloes.	Indian J. Vet. Sci. Biotech.	12(3):90-93.	--
28.	K. B. Bahiram, J. R. Khan, S. D. Ingole, J. Kumarswamy and N. E. Gade	201 8	Relationship between Certain Hormones, Metabolites and Milk Composition during complete Lactation in HF Crossbred Cows.	J. Bombay Vet. Coll.,	25(1):12-17.	- -
29.	K. B. Bahiram, J. R. Khan, N. E. Gade, S. D. Ingole, and M. S. Patil	201 8	Interrelationship Between Milk Yield, Milk Composition, Certain Hormones and Biochemical Parameters During Complete Lactation in Sahiwal Cows.	J. Bombay Vet. Coll.,	25(2): 43-48.	--
30.	Mahesh Gupta, Ankita Thakre, Jayant P Korde, Krushna B Bahiram, Vikas M. Sardar,	201 9	Effect of Adiponectin on Proliferation of Granulosa and Luteal Cells of Buffalo Ovary has been received by International	Int. J. Livestock Res.	9 (4):195-205	3.12

	Shashank D Dudhe		Journal of Livestock Research.			
31.	Mahesh Gupta, Ankita Thakre, Krushna B Bahiram , Vikas M. Sardar, Shashank D Dudhe , Jayant P Korde, Sachin W. Bonde, Nitin V. Kurkure	201 9	Abundance of adiponectin mRNA transcript in the buffalo corpus luteum during the estrous cycle and effects on progesterone secretion in vitro.	Animal Reproduction Science,	208:106-110.	7.82
32.	Mahesh Gupta, Ankita Thakre, Krushna B Bahiram , Vikas M. Sardar, Jayant P Korde, Swapnil P. Magar,, Sachin W. Bonde, Nitin V. Kurkure	201 9	Expression and localization of adiponectin and its receptors in ovarian follicles during different stages of development and the modulatory effect of adiponectin on steroid production in water buffalo.	Reproduction in Domestic Animal,.	54:1291– 1303	7.64
33.	K. B. Bahiram , J. R. Khan, N. E. Gade, M. K. Gendley, M. S. Patil and	202 0	Studies on Milk Yield, Milk Composition, Circulating Hormones, Energy Metabolites and Biochemical	Int. J. Curr. Microbiol. App. Sc.i	9(9): 1586- 1599.	--

	J. Kumarsamy		Parameters during Complete Lactation in Sahiwal Cows.			
34.	Karuna P. Bamode, J. P. Korde, Mahesh Gupta, K. B. Bahiram, Manoj Patil, Rajendra Nikhate, D. V. Patil and V. M. Sardar	2020	Correlative Studies on Physio-morphological Characteristics of Gir Bull Semen during Summer and Winter Seasons.	Int. J. Curr. Microbiol. App. Sci.	9(10): 3185-3191.	--
35.	V. M. Sardar, Mahesh Gupta, J. P. Korde, K. B. Bahiram, K. P. Bamode and S. W. Bonde	2020	Expression Profile of Orexin System in Corpus Luteum of Buffalo during Estrous Cycle	Int. J. Curr. Microbiol. App. Sci.	9(11): 1268-1276.	--
36.	A. Thakre, M. Gupta, S.P. Magar , K.B. Bahiram, V.M. Sardar, J.P. Korde , S.W. Bonde, and	2021	Transcriptional and translational abundance of Visfatin (NAMPT) in buffalo ovary during estrous cycle and its in vitro effect on steroidogenesis	Domestic Animal Endocrinology	202175 : 106583	7.90

	I. Hyder					
37.	V.M. Sardar, Mahesh Gupta, J.P. Korde, K.B. Bahiram, S.B. Kawitkar, D.S. Raghuwanshi, K.P. Bambode	202 3	Localization of Orexin and its Receptor in Corpus Luteum and in vitro Effect of Orexin on Progesterone Production from Luteal Cells in Buffalo	Indian Journal of Animal Research, Volume 57 Issue 1: 12-17)	57(1):12-17	6.32
38.	Mahesh Gupta, Jayant P. Korde, K.B. Bahiram, V.M. Sardar, Nitin V. Kurkure	202 3	Expression and localization of apelin and apelin receptor (APJ) in buffalo ovarian follicles and corpus luteum and the in-vitro effect of apelin on steroidogenesis and survival of granulosa cells	<i>Theriogenolog y</i>	197, 240-251	8.92
39.	Swapnali Waghmare, Mahesh Gupta, K.B. Bahiram, J.P. Korde, Rekha Bhat, Yashwant Datar, Pushpendra Rajora, M.M. Kadam,	202 4	Effects of organic acid blends on the growth performance, intestinal morphology, microbiota, and serum lipid parameters of broiler chickens	Poultry Science	104,(1):10454 6	9.8

	Megha Kaore, N.V. Kurkure					
40.	Karuna P Bambode, Mahesh Gupta, Jayant P Korde, KB Bahiram and VM Sardar	202 4	Seasonal effect on antioxidant enzymes activity relationship with lipid peroxidation and physico- morphological characteristics in fresh semen of Haryana bulls	International Journal of Advanced Biochemistry Research	8(9S):1083- 1089	5.29
41.	M Pallavi, Jayant P Korde, Mahesh Gupta, KB Bahiram, MS Patil and SW Bonde	202 4	Seasonal impact on semen quality parameters in Murrah buffalo bull	International Journal of Advanced Biochemistry Research	8(10S):861- 865	5.29

List of Marathi and Popular articles published:

Sr. No	Authors	Year	Title	Name of the Journal/Magazine	Volume: Page Nos.
1.	Dr. V. M. Sardar, Dr. J. P. Korde, Dr. K.B. Bahiram, Dr. Mahesh Gupta & Dr. S.D. Dudhe	2018	tukojkaph ipulaLFkk R;kaP;k vkgkjk vL.kkjs vUUK?kVd] [kfut feJ.ks vkf.k thoulRos ;kaps egRo (Janavarachi pachansanstha tyanchya aaharat asnare annaghatak, khanij mishrane ani jivansatve yanche mahatva)	Godva Shetichya	Dec. 2018: 53-55
2.	Dr. Krushna Bahiram, Dr. Mahesh Gupta, Dr. Sonali Borkar, Dr. Suresh Jadhav and Dr. Vikas Sardar	2019	दुधालु गाई म्हशींची शरिरक्रिया, ओलख व व्यवस्थापन	Godva Shetichya	Decem ber, 2019 50-52
3.	Dr. S.D.Borkar, Dr.S.G.Jadhao, Dr.K.B.Bahiram, Dr.M.M.Kadam and Dr.A.R.Patil	2020	dksacM;kaP;k vkgkjk thoulRos % ,d eqyHkw r xjt	Godva Shetichya	March, 2020 77-78
4	Dr. Mahesh Gupta Dr. K.B. Bahiram Dr. J. P. Korde Dr. Sonali Borkar Dr. Suresh JAdhao, Dr. V. M. Sardar	2022	i'kqoS d foLrkjdk;kZps fMftVk;>s'ku% dkGkph xjt-	Godva Shetichya	vad dz- 11 ok iku dz- 80&83-
5.	MkW- egs'k xqIrk] MkW- ds- ch- cfgje] MkW- ts- ih- dksjMs]	tqyS 2022	Lkk;cj xqUgxkjh iklqu 'ksrdÚ;kpk cpko % foLrkj	xksMok 'ksrhp	vad dz- 12 ok

	vkf.k MkW- ,l- th- tk/ko		dk;ZdR;kZph Hkqfedk-		iku dz- 13&15-
6.	MkW- lksukyh cksjdj MkW- lqjs'k tk/ko] MkW- Ñ“.kk” cfgje MkW- egs'k xqIrk vkf.k MkW- प्रभाकर टेम्भूर्णे	tkuso kjh 2023	पशुधनामधील रोगाविरुद्ध प्रतिकारशक्ती वाढवण्यासाठी सूक्ष्म अन्नद्रव्यांची ¼इंमुनोनिट्रिएंट्स½ प्रभाविता	xksMok 'ksrhpK	vad dz- 4 ok iku dz- 73&75-
7.	MkW- lqjs'k tk/ko MkW- lksukyh cksjdj] MkW- Ñ“.kk cfgje vkf.k MkW- egs'k xqIrk	Qsczq okjh 2023	izk.;kae/s O;oLFkkiu i/nrh% i'kq/ku ekydkaP;k HkwfedspS vUos”k.k-	xksMok 'ksrhpK	vad dz- 7 ok iku dz- 68&71-
8.	MkW- Ñ“.kk cfgje] MkW- egs'k xqIrk] MkW- t;ar dksjMs] MkW- lksukyh cksjdj vkf.k MkW- lqjs'k tk/ko	Qsczq okjh 2024 Febru ary 2024	nq/k ns.kk&;k xkbZ Eg'khaph 'kjhjfdzz;k] vksG[k o O;oLFkkiu	xksMok 'ksrhpK	vad dz- 07 ok iku dz- 72&74-
9.	MkW- lksukyh cksjdj] MkW- lqjs'k tk/ko] MkW- Ñ“.kk cfgje vkf.k MkW- egs'k xqIrk	IIVsac j 2023 Sapte mber 2023	nqX/k'kkGsrhy çk.;kaph dkGth vkf.k O;oLFkkiu	xksMok 'ksrhpK	vad dz- 02 jk iku dz- 74&75-
10.	Dr. J. P. Korde, Dr. Mahesh Gupta and Dr. K. B. Bhiram	19 th - 28 th June, 2023	Oxidative sress and Antioxidant defence: A Thermal Stress Perspective in Livestock Production	Department of Veterinary Physiology, NVC, Nagpur, ISBN No. 978-81- 19235-86-5	Pg. No. 01-07

8. Research Priorities / Thematic areas: Department Wise

1. Identification and ameliorative measures for thermal stress in Livestock and Poultry

2. Alternatives use of Acidifiers and other additives in places of antimicrobials in Livestock and Poultry