










ANNUAL REPORT 2012-13






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The **COLLEGE OF VETERINARY AND ANIMAL SCIENCES, UDGIR** was established in 1987 under Marathwada Agriculture University, Parbhani. However, since 1st April 2001 the college is functioning under **Maharashtra Animal & Fishery Sciences University, Nagpur**. The campus is divided into Udgir, where College building, Cattle Breeding Farm, MAFSU Sub-centre, College of Fishery Sciences, Dairy Technology College are located and a small village, Sunegaon (Tq. Ahmedpur), where an additional facility for animal sheds and mainly grassland is developed.

Since beginning i.e. 1987 Undergraduate programme was started, subsequently in 2003 Post graduate programme was introduced in seven disciplines and in 2008 PG programme was started in Animal Reproduction and Animal Nutrition. The Clinical departments were shifted to New TVCC Building in April 2011, Para-clinical departments to 'B' block in Sept.2011 and remaining departments and Office of Associate Dean in December 2012.

Old photographs of institute:

		
Boy's Hostel	College Building	Library
		
Feed mill	Ladies room	Silo pits
		
Observatory	Cattle Breeding Farm	TVCC
		
Dept. of Surgery	Poultry house	Farmers rest house

		
Old staff quarters	Dept. of Gynaecology	Cattle shed
		
Bio-energy unit	Lecture halls	

B. Admission Strength:

Intake Capacity:

Category	B.V.Sc. & A. H.		M. V. Sc.		Ph. D.	
	Male	Female	Male	Female	Male	Female
Open	9	4	3	2	---	---
OBC	4	2	2	0	---	---
SC	2	1	1	0	---	---
ST	2	0	0	0	---	---
Others	2	1	0	0	---	---

Information is from Prospectus for the academic Year 2012-13.

Students on Roll (Year-wise):

B.V.Sc. & A. H.

Category	I Year		II Year		III Year		IV Year		V Year	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Open	4	4	9	3	10+1*	0	3	2	1	0
OBC	5	3	4	2	02	1	2	1	0	0
SC	1	2	3	1	02	00	1+1*	0	3	0
ST	2	0	3	0	00	00	0+1*	0	0	0
Others	5	2	4	0	03	00	3	0	1	0

* Students of old B.V.Sc. & A.H. Degree Course

M. V. Sc.

Category	I Year		II Year	
	Male	Female	Male	Female
Open	1	0	3	1
OBC	0	1	0	0
SC	1	0	2	1
ST	0	0	0	0
Others	3	0	1	0

Lower Education:

Intake Capacity:

Sr. No.	Region	Number of Schools	Intake Capacity (First Year)	Number of Students Received Diploma
1	COVAS, Udgir	12	720	Result is awaiting

Students on Roll (Lower Education) (Year-wise):

Category	I Year		II Year	
	Male	Female	Male	Female
Open	119	21	80	15
OBC	43	09	57	6
SC	83	23	113	18
ST	17	0	04	Nil
Others	80	19	69	16

C. Scholarship and Fellowship:

Sr. No.	Name of Scholarship / Free-ship	Number of Students		Total Amount (Rs)
		Boys	Girls	
01	GOI Scholarship	41	05	728515/-
02	Freeship	06	02	79360/-

D. Hostel Accommodation:

Sr. No.	Hostel Name	Number of Rooms	Number of Students
1	Nakul Boy's Hostel, COVAS, Udgir	60	66

E. Infrastructure Facilities:

Sr. No.	Particulars	Amount	Purpose
1	E-library – CeRA (Consortium for e-resources in Agriculture)	Rs. 319842/-	Availability of e-resources for UG/PG students and staff members
2	Virtual classroom (Cushioned chairs, Automatic projection screen and Chalk board)	Rs. 89,324/-	For seating arrangement, visual display and explanation of the things if necessary.
3	Purchase of Surgical equipments (Computed radiology, C-arm x-ray, Diagnostic imaging (Endoscopy, Ultra sonography, Colour Doppler), Electrocardiogram, Dentistry, Inhalation anesthesia and ICU	Rs. 2.89 crore (RKVY Project)	Strengthening & modernization of Department of Surgery & Radiology to- a) Provide good clinical services to the farmers b) Impart training to Livestock Development Officers c) Hands on training to UG/PG students of the college
4	Purchase of equipments MALDI TOF Bio-typer Fluorescent Microscope with photography, Nanodrop, Lyophiliser, Ultrasonicator, Deep freeze-860 c, Biohazard safety cabinet class II A2, A/C split, Glass partition, ELISA reader	Rs.145.10 lakhs (RKVY project)	To establish rapid animal disease diagnostic centre

F. Extra Curricular Activities:**Inter University / State / National Level Games / Sports Tournaments:**

Sr. No.	Name of Tournament	Game / Sport	Number of Students Participated		Remarks
			Male	Female	
1	13 th All India Inter Agricultural Universities Youth Festival Jawaharlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur – 482 004	Indian Group Song	04	02	
2	KRIDA – MAHOTSAV – 12 held at Rashtrasanta Tukdoji Maharaj Nagpur University, Nagpur during 17 – 21 January, 2013	i) Kabaddi	01	--	
		ii) Kho-kho	01	--	
		iii) Volleyball	02	--	
3	Inter-University Research Festival 2012-13 held at Balasaheb Sawant Konkan Krushi Vidhyapith, Dapoli	Avishkar	01	01	Won 1 st Prize in Agri. & Animal Husbandry
4	All India Inter-Agricultural University Sports & Games Meet 12-13 held at Karnataka Veterinary, Animal and Fishery Science university, Nandinagar, Bidar (Karnataka) during 6-10 th March 2013	i) Table Tennis	01	--	
		ii) Basket Ball	02	--	

NSS Activities:

Sr. No.	Date	Place	Activity	Number of Students Participated		Remarks
				Male	Female	
1	11.04.12	COVAS, Udgir	Mahatma Jyotiba Phule Birth Anniversary	49	15	--
2	14.04.12	COVAS, Udgir	Dr.B.R.Ambedkar Birth Anniversary Shramdan	49	15	--
3	01.05.12	COVAS, Udgir	Maharashtra Din Blood Donation Camp	49	15	Blood donor 18
4	21.05.12	COVAS, Udgir	Anti terrorism & Non violence day	49	15	--
5	01.07.12	COVAS, Udgir	Vasantrao Naik birth anniversary	49	15	--
6	01.08.12	COVAS, Udgir	Annabhau Sathe Birth Anniversary & Lokmanya Tilak Death anniversary	49	15	--

7	17.08.12	COVAS, Udgir	Sadbhavana Divas Birth anniversary of Rajiv Gandhi	49	15	--
8	07.09.12	COVAS, Udgir	Ahilyabai Holkar Death anniversary	49	15	--
9	02.10.12	COVAS, Udgir	International Non- violence day <i>Parisar Swachhata</i>	49	15	--
10	08.10.12	COVAS, Udgir	Collected funds for National Blind Association, Madurai	49	15	Sent Rs.900
11	14.10.12	Udgir	Clean & Green Udgir campaign	49	15	--
12	19.11.12	COVAS, Udgir	National Integration day Birth Anniversary of Indira Gandhi	49	15	--
13	19-25 Nov. 12	COVAS, Udgir	Communal Harmony campaign Fund raising week	49	15	--
14	25.11.12	COVAS, Udgir	Yashwantrao Chavan Death anniversary	49	15	--
15	26.11.12	COVAS, Udgir	Sanvidhan Din	49	15	--
16	28.11.12	COVAS, Udgir	Mahatma Phule Smrutidin	49	15	--
17	06.12.12	COVAS, Udgir	Mahaparinirwan Din	49	15	--
18	12.12.12	COVAS, Udgir	Babu Genu Shahid Din	49	15	--
19	24.12.12	Udgir	Cleanliness campaign at Historical fort of Udgir	49	15	--
20	03.01.13	COVAS, Udgir	Savitribai Phule Birth Anniversary	49	15	--
21	12.01.13	COVAS, Udgir	Jijau Maasaheb Birth Anniversary	49	15	--
22	23.01.13	COVAS, Udgir	Netaji Subhashchandra Bose Birth Anniversary	49	15	--
23	19.02.13	COVAS, Udgir	Shivaji Maharaj Birth Anniversary <i>Swachhata Abhiyan</i>	49	15	--
24	12.03.13	COVAS, Udgir	Yashwantrao Chavan Birth Anniversary	49	15	--
25	21.03.13	COVAS, Udgir	Tree plantation	49	15	10 saplings

Competitive Examination:

Sr. No.	Name of Examination	Number of Students Selected			Remarks
		Male	Female	Category	
	AIEEPG	10	3	--	AIEEPG conducted by ICAR during the year 2012-13

G. Degrees, Achievements and Awards:

Award / Medal:

Sr. No.	Name of Award / Medal	Name of Student	Category
1	First prize during “Avishkar 2012”	Shri. U. N. Surwase	Agriculture and Animal Husbandry (Inter University Research Competition)



H. Student Placement:

Training & Placement Cell of the College assisted eight students of the College to get Placement/Jobs in different firms during the year 2012-13.

7. Human Resource Development:

Conference / Symposium / Workshop / Summer and Winter Institute / Seminar / Short Term Training Courses etc. attended by the Teacher outside University

Sr. No.	Name of Teacher	Date	Name of Conference / Symposium / Trainings
1	Dr. A. U. Bhikane	9 to 11 th April, 2012	Workshop on ‘Implementation of State Training Policy’ at YASHDA’, Pune
2	Dr. K. S. Chaudhari	31-7 -12 to 20-8-12	Modern imaging techniques and laboratory diagnostic procedures for the precise and early diagnosis of diseases in farm and pet animals at TANUVAS, Chennai.
3	Dr. A. D. Patil	5th to 25th Sept. 2012 (21 days)	Training programme on, ‘Application of diagnostic ultrasound techniques in animal reproduction’ organized by Department of Veterinary Gynaecology and Obstetrics, GADVASU, Ludhiana
4	Dr.S.S.Kulkarni	6-8 Nov.2012	XXI Annual Conference of Society of Animal Physiologists in India and , National Symposium on ‘ <i>Physiological Research In Changing Environmental Scenario For Sustainable Livestock And Poultry ration of Production</i> ’ held at – Vanbandhu College of Veterinary Science and Animal Husbandry, Navsari Agricultural University, Navsari.
5	Dr.R.R.Mugale	28-30 Nov. 2012	Advances in applied anatomy of domestic and wild animals – An interdisciplinary approach for animal health and wealth held at Thrissur Kerala.
6	Dr.P.N.Thakur		
7	Dr. A. U. Bhikane	9 to 11 th January, 2013	31 st Annual convention of Indian Society for Veterinary Medicine & National symposium on

			“Advancing Veterinary Medicine and its specialties for Augmented Productivity and Health : Issues and Strategies in farm and companion animals” at Mhow, Madhya Pradesh
8	Dr.S.S.Kulkarni	January, 18 – 19, 2013.	National Conference on Data Mining (NCDM 2013), held at Allana Institute of Management Sciences, Pune.
9	Dr. V.S. Waskar	7-9 February 2013	5 th Conference and National Symposium of Indian Meat Science Association (IMSACON) held at National Research Centre on Meat, Hyderabad.
10	Dr. A. U. Bhikane	9 th March 2013	National seminar (ASCAD) on “Advances in Animal Health & Application of Biotechnology” and 1 st Annual Convention of SVSBT, Anand
11	Dr. A. U. Bhikane	10 th March 2013	XI Technical Seminar of ISVS at Jalgaon
12	Dr.V.M.Salunke	9-10 th March 2013	15 th ISVS of Nashik Chapter & 15 th Regional technical Seminar of Veterinary Surgery
13	Dr. A. U. Bhikane	19 th March, 2013	Workshop on ‘Diseases of Livestock in Konkan Region with special reference to Botulism, Leptospirosis and Plant Toxicities’ at Vengurla, Sindhudurg

Training / Workshop / Conferences / Symposium etc. organized by the College

Sr. No.	Date	Name of Conference / Symposium etc	Number of Participants
		Nil	

8. Research:

A. Student Research:

Dept. of Pathology: Title: Efficacy of Maytenus Emarginata in Paracetamol induce toxicity in male Wistar rat Conclusion: From the said study it could be resolved that Maytenus emarginata at high dose (150 mg/kg.B.W.) had better hepato protector and nephro protective activity against Paracetamol induced toxicity in male in wistar rat.
Dept. of Gynaecology: Title: Fertility improvement in repeat breeding Deoni cows by using hormonal therapies under field condition Conclusion: The efficacy of GnRH hormone in a repeat breeder cows at the time of A.I. is better than hormone progesterone and GnRH administered on 5th day of artificial insemination with conception rate 75.00 per cent.
Dept. of Pharmacology: Title: In vitro evaluation of antibacterial activity of <i>Enicostema littorale</i> against gram positive and gram negative organisms Conclusion: It was observed that out of aqueous, ethanol, methanol, choloform and ethyl acetate the aqueous leaf extract of <i>Enicostema littorale</i> was found most effective against E. coli and Bacillus subtilis. It was less effective against salmonella typhi, Klebsilla pneumoniae and bacillus organisms. The presence of alkaloids, tannins, saponins, sterols, resins, phenolic compounds and anthraquinone in aqueous extract was noted.
Dept. of Surgery: Project I Title : Evaluation of efficacy of citric acid jelly on chronic wound in bovines.

Conclusions: The study was carried out on 40 clinical cases of chronic wound in Bovines, divided into 4 groups of 10 each. Aloe vera, aloevera +Citric acid, povidone iodine and citric acid were used for treatment in group 1 to 4 respectively. Epithelization and granulation tissue formation was more in cases treated with *aloe vera*, *aloe vera* + citric acid and citric acid as compared to povidone iodine treated group.

Project II

Title: Intramedullary Interlocking Nailing for Long Bone Fractures In Small Ruminants (Goats And Sheep) and Calves.

Conclusion: The project was based on 10 clinical cases of long bone fracture in Goats, Sheep & calves, divided into two groups of five each. Group 1 was treated by open reduction using solid inter-locking nails whereas group 2 with closed reduction using tubular inter-locking nails.

Animals treated with closed IILN showed earlier weight bearing compared to open IILN. Intramedullary Interlocking nailing was bioacceptable & found to be an ideal technique for immobilization of long bone fractures.

Project No. : III

Title : A clinical study on genital prolapse and its Surgical treatment in bovine.

Conclusions: Twelve cases of genital prolapse were divided into two groups of six each. Group I cattle were treated by retention suture (mattress suture) to vulval commissure using silk no.3 while group II, by Button fixation suture on the rump region.

It was experienced that horizontal mattress suture could end in failure as exhibited by signs of dysuria and the deviation of urinary tract, whereas Button fixation suture was comparatively more successful with minimum complication.



Dept. of Nutrition:

Title: Effect of herbal combinations on performance of Osmanabadi goat kids.

Conclusion: Significantly higher live body weight, progressive gain in weight with satisfactory feed efficiency along with physiologically normal haematological profile and absolutely normal serum biochemical profile indicating normal kidney and liver functioning can be achieved by the supplementation of herbal combination either represented in group II and or group III.

B. Staff Research:

1. Department of Veterinary Clinical Medicine	
Title:	Evaluation of Therapeutic Efficacy of Cefquinome in Clinical Mastitis in Bovine
Name of Staff members:	Dr A U Bhikane, Dr P S Masare, Dr S S Ghoke, Dr A D Patil, Dr A M Sayed and Dr K B Awaz
Summary /salient features/achievement:	Out of 16 clinical cases of mastitis in bovine (9 buffaloes and 7 cows)) treated with cefquinome, 14 animals (8 Buffaloes and 6 Cows) were completely recovered within 3-5 days of treatment. Quarter wise, 22 out of 24 affected quarters recovered after treatment with cefquinome indicating 91.6% recovery rate. No

	adverse effect was observed during course of treatment. Cefquinome, a fourth generation cephalosporin resistant to beta-lactamase, found safe and effective in the treatment of mastitis.
2. Department of Veterinary Public Health	
Title:	Enhancement of keeping quality of milk using low cost technology.
Name of Staff members:	V.S. Waskar and U.N. Surwase
Summary /salient features/achievement:	<p>A model was developed utilizing the locally available low cost/waste material such as broken out pieces/entire slabs of bricks, mud, lime powder, cooler net and straw. Two rectangular structures of desired size with one nested in another were prepared using bricks and mud.</p> <p>Temperature of milk samples stored in the model was found to reduce slowly till 3-4 hours after storage of samples with average reduction by 3.83-5.17°C. Consequently the drop in the temperature was found to be consistent as compared to control. Control samples were found to be acceptable up to 8 hours of storage while, the samples stored in the model were acceptable up to 12 hours. The keeping quality of milk was found to be enhanced by 4 hours and the model developed using low cost technology was found suitable for storing the milk for more duration.</p> <div style="display: flex; justify-content: space-around;">   </div>
3.Dept. of Veterinary Physiology	
Title:	Determination of Climatic Profile of the Udgir area
Name of Staff members:	Dr.S.S.Kulkarni, Professor
Summary /salient features/achievement:	<p>The Department of Physiology, College of Veterinary and Animal Sciences, Udgir has established its own Observatory, giving honour to the College being the first Veterinary College in the University and probably in the country as well, having its own IMD approved observatory.</p> <p>The observatory, established in the year 2000, has recorded meteorological parameters as per the norms of Indian Meteorological Department (Pune) and has collected a voluminous data on these parameters under various conditions. The weather record /data are</p>

	<p>submitted daily, weekly as well as monthly to the IMD, Pune regularly through Weather Section Mumbai.</p> <p>The department is maintaining record of weather data, as a step ahead for the development of a new faculty of science called VETEROMETEOROLOGY (on the lines of AGROMETEOROLOGY). It will also be used to develop animal weather forecasting, in the coming years of change in climatic factors. The data show trends and frequency of changes in various parameters viz. maximum temperature, minimum temperature, dry bulb temperature, wet bulb temperature and relative humidity (morning at 08.30 and afternoon 17.30).</p>
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C. Project/Agency:

Dept. of Pharmacology (1)	
Name of Project:	Evaluation of lactogenic property of a test preparation (Prasarini/ <i>Paederia foetida</i>).
PI and Co PI:	Dr. A. P. Somkuwar and Dr. (Mrs) M. K. Patil
Funding Agency:	National Innovation Foundation, Delhi
Summary:	From observations, it can be concluded that <i>Paederia foetida</i> is having significant lactogenic property.
Infrastructure Developed / Instruments Purchased (above Rs. 2 lacs):	---
Dept. of Pharmacology (2)	
Name of Project:	Efficacy of administration of AV/CGC/18 for maintenance of calcium homeostasis and prevention of calcium deficiency disorders during post parturient period.
PI and Co PI:	Dr. A. P. Somkuwar and Dr. (Mrs) M. K. Patil
Funding Agency:	Ayurved Limited, Baddi (H.P.)
Summary:	From the recorded observations it can be concluded that the polyherbal formulation AV/CGC/18 is efficacious in maintaining calcium homeostasis in post parturient cattle without adverse effects on milk yield and milk constituents.
Infrastructure Developed / Instruments Purchased (above Rs. 2 lacs):	--
Dept. of Surgery	
Name of Project:	Strengthening & Modernization of Department of Surgery & Radiology & Training to field Veterinarians

PI and Co PI:	Project Co-ordinator- Dr.V.M.Salunke PI Dr S S Pitlawar and Co PI: Dr P S Masare
Funding Agency:	Government of Maharashtra under RKVY
Summary:	i). The project has significantly benefited to the Clinicians & Livestock owners. It is providing early diagnosis & economic treatment of the animals especially cattle, buffaloes, sheep & goats. ii). The department of surgery and radiology is strengthened and modernized. iii). Professional competence of surgery staff is improved iv). Hands on training is given to UG/PG students.
Infrastructure Developed / Instruments Purchased (above Rs. 2 lacs):	Computed radiology, C-arm x-ray, Diagnostic imaging (Endoscopy, Ultra sonography, Colour doppler, Electrocardiogram, Dentistry, Inhalation anesthesia and ICU are established.
Dept. of Animal Nutrition:	
Name of Project:	Assessment of mineral profile relationship of animals, soil, feeds and fodders in Maharashtra for improvement of livestock production.
PI and Co PI:	Dr. A. B. Kanduri and Dr. N. Z. Gaikwad
Funding Agency:	Dept. of Animal Husbandry Govt. of Maharashtra
Summary:	Calcium content of soil of all three districts is normal while fodder is deficient and blood was normal during all three seasons. The phosphorus content of soil, fodder as well as blood was found deficient in all three districts during all three seasons. The magnesium content of soil of all three districts was found normal while fodder and blood was deficient during all three seasons. While, the iron, copper and zinc content of soil, fodder as well as blood in all three districts was observed normal during all three seasons.
Infrastructure Developed / Instruments Purchased (above Rs. 2 lacs):	Nil
Dept. of Microbiology	
Name of Project:	Rapid Disease Diagnostic Centre for small ruminant
PI and Co PI:	Dr. A.V.Bhonsle
Funding Agency:	Government of Maharashtra under RKVY
Summary:	Purchasing of equipments and collection of samples
Infrastructure Developed / Instruments Purchased (above Rs. 2 lacs):	MALDI TOF Biotyper, Fluorescent Microscope with photography, Nanodrop, Lyophiliser, Ultrasonicator Deep freeze-860 c, Biohazard safety cabinet class II A2, A/C split, Glass partition, ELISA reader

D. Research Publication:

Sr. No.	Author	Title	Journal	Year	Volume	Page No.
1	Ghoke S. S. , Niakwade B. S.,	A preliminary survey of Gastrointestinal parasitism	Zoo's Print	2012	XXVII	21

	Sakhare, M. P., Awaz, K. B. and Bhikane A. U.	in Captive Herbivora of Sidhhartha Municipal Zoo, Aurangabad				
2	Ghoke S. S., Jadhav K. M. and Thorat K. S.	Ethnoveterinary practices in Camels of North Gujarat	Journal of Camel Practice and Research	2012	19	79-80
3	Ghoke S S, Jadhav K M and Thorat K S	Assessing the Osmotic Fragility of Erythrocytes of rural and semiurban Camels (<i>Camelus dromedaries</i>)	Camel: International Journal of Veterinary Sciences	2013	01	75-78
4	Ghoke S S, Thorat K S and Hase P B	Clinical management of Rickets in 15 canine patients	Intas Polivet	2012	13	357- 358
5	Patil, A.D., N.M.Marakandeya and Bhikane, A.U.	Biochemistry of anoestrus postpartum Deoni cows treated with herbal drugs and minerals for fertility improvement.	Indian Vet. J.	2012	89	12-15
6	Lengre, A.S., Bhikane, A.U., Ghoke, S.S., and K.B.Awaz	Pica in buffaloes with special reference to its etiology and treatment.	Intas Polivet	2012	13	62-66
7	M.M.Pathan, U.B.Kumbhar, M.S.Dandopant, Patil A.D, Khan, M.A. and R.M.More	Dicephalus tetrabrachius tricaudus Ischiopagus: A conjoined twin calf	Indian Journal of Veterinary Pathology	2012	36 (1)	86-87
8	S.S.Bhagat, A.M.Sonphule, Khan M.A.	Beak deformity in a broiler	Pashudhan	2012	38 (9)	--
9	Manwar S.J., Awandkar S.P., Munde V.K., Waskar V.S.	Effect of different sources of drinking water and commercially treated water on the performance of broiler chicken	Indian Journal of Poultry Science	2012	47 (1)	60- 63
10	S.J. Manwar, S.P. Awandkar, N.Z. Gaikwad and V.M. Sardar	Effect of acidifier and sanitizer treatment of drinking water on immune response and blood biochemistry in broiler chicks	Animal Science Reporter	2012	6(3)	99- 103
11	Sudhakar P. Awandkar, Sathish J. Manwar, Dilip M. Badukale, Mahesh B. Kulkarni	Growth performance of broilers in experimental Reovirus infections	Vet World.	2012	5(11)	685- 689
12	Bharkad, G.P., Markandeya, N.M., Bedarkar, S.N., Patil, A.D. and Raote, Y.V.	Efficacy of fenbendazole feed supplement for bovines	Indian Vet. J.	2012	89(5)	40-42

13	Kumbhar, U.B., Moregaonkar, S.D., Patil, A.D., Chaudhari, K.S., Jadhav, V.L. and Thorat, K.S.	Dystokia duo to a bull dog calf with hemimelia in a Marathwadi buffalo	Indian Vet. J.	2012	89(4)	67-68
14	Azhar Akhtar, Deshmukh A.A., Raut C.C., Somkuwar A.P., and S.S.Bhagar	Prallethrin induced serum biochemical changes in Wistar rats	Pesticide Biochemistry and Physiology	2012	102 (2)	160- 168
15	Kanduri A. B., M. J. Saxena, K. Ravikanth, S. Maini and S.S. Kokane	Effect of dietary replacement of antibiotic growth promoter with herbal growth promoter on performance of broiler poultry birds	International J. A. PS. BMS	2013	2 (1)	12-15
16	Kanduri A. B., M. J. Saxena, K. Ravikanth, S. Maini and M. Dandale	Hypo-cholesterolemic effect of herbal supplementation on serum and egg yolk cholesterol in layer poultry egg	International Journal of Biology, Pharmacy and Allied Sciences	2013	2 (5):	1199- 1202
17	Kanduri A. B., S. S. Kokane, M. J. Saxena, K. Ravikanth, S. Maini and M. Dandale	Effect of herbal lysine supplement on broiler poultry bird performance	Discovery Science	2013	4 (11)	20-21

E. Research Recommendations: Nil

F. Patent:

Sr. No.	Name of Teacher	Patent
	Nil	

G. Collaboration:

Physiology Dept.:- MOU with the Indian Meteorological Department (Mumbai) since 2001, in vogue, enabling recording, reporting and documenting data on weather / climate parameters, development and maintenance of observatory free of charge.

H. Award / Honour / Recognition :

Sr. No.	Name of Teacher	Name of Award / Medal
1	Dr.R.R.Mugale	Fellow of Indian Association of Veterinary Anatomists, 2012
2	Dr A. U. Bhikane	Best Paper presentation Award of Indian Society of Veterinary Medicine-2013

9. Farm Activities:

A. Cattle Breeding Farm, COVAS, Udgir

i). Livestock strength on 31st March 2013:

Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry	Horse	Fish	Pig
1	46	26	64	39	--	---	--	--

ii). Production of CBF, COVAS, Udgir:

1. Kadabi	=	10 Ton
2. Dry Natural grass	=	45 Ton
3. Maize Green fodder	=	110.8 Ton
4. Cowpea green fodder	=	11.8 Ton
5. Aawra green fodder	=	15 Ton
6. Multicut jowar Green fodder	=	49 Ton
7. Yeshwant/ Jaywant grass	=	372.6 Ton
8. Jowar seed	=	5.0 quintal
9. Cow milk	=	3126.5 liters
10. Buffalo milk	=	7120.0 liters

iii). Infrastructure developed- Construction of sheds is in progress under supervision of University Engineer.

iv). Revenue generated/received

1. Sale of milk

Cow milk = 3126.5 lits.

*Milk supplied to Students 834 lit x Rs.18/- = Rs.15,012/-

*Milk provided to Departmental practical = 4.5 liters.

*Milk sale to customers 2288 x 22 = Rs.50, 336/-

Total revenue from cow milk = Rs.65, 348/-

Buffalo milk= 7120.0 lits.

*Milk supplied to sheep & goat unit = 183 liters.

* Milk supplied for departmental practical = 23 liters.

* Milk sale to customers=6914 x Rs. 26/- = 1, 79,764/-

Total revenue from Buffalo milk = Rs. 1, 79,764/-

2. Sale of ram/buck = **Rs. 16,835/-**

3. Sale of cattle & buffaloes = **Rs. 32, 400/-**

4. Sale of grass = **Rs. 43,000/-**

5. Sale of Yeshwant / Jaywant stumps = **Rs. 70,800/-**

6. Sale of Azolla = **Rs. 08,450/-**

v). Research Conducted

1	Comparative study of different composite silages
2	Comparative study of different urea treated straws.
3	Effect of herbal growth promoter on feed intake and live body weight gain in Osmanabadi kids

vi). Extension activities:**a). Publication**

College	Leaflet/Booklet/ Pamhlet	Book	Local publications(Newspaper)	Publications (Periodicals)	Radio/T.V. Talks	Practical Demonstrations
CBF	6	---	04	01	---	18

b). Short term training courses for farmers

S.N.	Title	Subject	Place	Period	No. of farmers
1	Farmers training	1.Azolla cultivation & its use in animal feed	CBF, COVAS, Udgir	20/3/2013	310
2.	Farmers training	2.Silage preparation from green fodder		21/3/2013	
3.	Farmers training	3.Urea treatment of crop		29/3/2013	315

4.	Farmers training	residues for improvement of nutritive quality.		30/3/2013	
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Azolla production, silage preparation and Urea Treatment



Demonstration of Urea-Straw Treatment



Demonstration of Azolla production



Visit to fodder crop



Demonstration of silage making

c). Staff participated in Veterinary exhibition and cattle show

d) **Farmers visit**

Sr.No	Date	No.of farmers
1	24/7/2012	01
2.	11/10/2012	25
3.	03/12/2012	06
4.	12/12/2012 & 13/12/2012	90
5.	7/1/2013	02
6.	14/2/2013	55

e). Other extension activities

Sr. No	Information of work done	Date	Place	No. of participants
1	Guided farmers about Yashwant /Jaywant cultivation and distributed about 9000 stumps to 30 farmers	6/11/12	Nandura Tq. Ahamadpur Dist: Latur	100
2	Clean milk production	3/12/12	Kodali Tal:Udgir	57

			Dist:Latur	
3	Shetkari melava	3/3/13	Hanchnal, Tq. Deoni	30
4	Urea treatment	12/2/13	Kodali	2
5	Fodder plot development	2012-13	Kodali	8
6.	Supplied 70600 Yashwant/Jaywant stumps on payment basis & 20000 stumps on free basis to farmers	2012-13	--	--

vii). List of eminent visitors

Sr.No.	Name & Designation	Full address	Reason	Date
1	Dr. A.K.Misra, Hon'ble Vice-chancellor	MAFSU,Nagpur	Official visit	06,07,08 December 2012
2	Dr. Abdul Samad, D.I. & Dean(Veterinary)	MAFSU,Nagpur	Official visit	16 & 17 July 2012
3	Dr.P. D. Deshpande, Director of Extension	MAFSU,Nagpur	Official visit	01/12/2012
4	Shri. S.B. Daine Registrar	MAFSU,Nagpur	Official visit	01/12/2012

B. MAFSU Sub-centre, COVAS, Udgir

i). Animals Strength at the Livestock Farm of MAFSU Sub Centre

Sr. No.	Cattle	Buffalo	Sheep	Goat	Poultry	Horse	Fish	Pig
01.	37	87	---	45	---	---	---	---

ii). Production:

	Cow	Buffalo	Goat
Milk (Ltr.)	4763.5	32867.5	---

iii). Infrastructure Facilities Developed:

Sr. No.	Particular	Amount	Purpose
01.	Five acres barren land	50,000/-	Brought under fodder cultivation.

iv). Revenue Received: (Amount in Rs.)

	Cow	Buffalo	Goat	Total
Sale of Milk	2,21,028/-	5,28,107/-	Nil	7,48,135/-
Sale of Livestock	Nil	Nil	14,800/-	14,800/-
Total	2,21,028/-	5,28,107/-	14,800/-	7,62,935/-

v). Extension Activities

- Extension education services at the adopted village – Kodali
- Acted as Judge at Hawagiswami Fair Cattle Judging Contest in January 2013 and at Malegaon Fair Cattle Judging Contest, Malegaon.
- Participation in organization of Farmers' Training Programme at ILFC, COVAS, Udgir.
- Published a book in Marathi (*Dugdhotpaadanaachi Panchasutri*)- Authors: Dr.S.P. Awandkar and Dr. D M Badukale.

vi). List of eminent visitors

Sr. No.	Name of The Dignitary	Post Held	Visited On	Remarks
01.	Dr. A. K. Misra	Hon'ble Vice Chancellor, MAFSU, Nagpur	06,07,08 December 2012	Official visit
02.	Sri. S.B.Daine	Registrar, MAFSU, Nagpur.	01/12/2012	Official visit.

10. Library:

Sr. No.	Item	Number of Books Available	New Books Purchased	Amount Spent
1	Books	4703	326	247788
			10	On gratis
2	Journals	193	7	On gratis
3	Other Publications	40	13	On gratis
4	Electronic Database	Nil	--	--

11. Extension:**A. Short Term Training Courses for Field Officers / Farmers:**

Sr. No.	Title	Date	No. of Trainees
1	Clean milk production	03.12.2012	57



Clean milk production






B. Adopted Village:

Name of the Adopted Village	Programme schedule	Date of Visit	Number participated	
			Students	Staff
Kodali	Weekly visit on every Tuesday	17/04/12	02	04
		15/05/12	-	05
		24/07/12	02	03
		31/07/12	02	02
		07/08/12	08	02
		14/08/12	08	04
		21/08/12	08	04
		28/08/12	08	04
		04/09/12	08	05
		11/09/12	08	05
		18/09/12	08	02
		25/09/12	06	04
		09/10/12	06	02
		16/10/12	08	05
		23/10/12	08	07
		30/10/12	06	02
		20/11/12	07	05
		27/11/12	07	03
		04/12/12	06	02
		11/12/12	05	02
		18/12/12	05	03
		08/01/13	06	02
		15/01/13	-	03
		22/01/13	-	05
		29/01/13	02	04

		05/02/13	02	03
		26/02/13	02	06
		05/03/13	05	04
		12/03/13	05	03
		26/03/13	06	03
Dongarshelki	Weekly visit on every Wednesday	09/05/12	-	03
		16/05/12	-	03
		25/07/12	-	03
		01/08/12	06	03
		08/08/12	08	02
		22/08/12	08	02
		29/08/12	08	01
		05/09/12	06	01
		12/09/12	07	02
		26/09/12	05	02
		03/10/12	08	03
		10/10/12	07	02
		17/10/12	08	02
		31/10/12	08	03
		07/11/12	05	03
		21/11/12	06	03
		05/12/12	06	02
		12/12/12	06	03
		19/12/12	06	03
		26/12/12	05	02
		02/01/13	05	01
		09/01/13	-	03
		16/01/13	-	01
		23/01/13	-	01
		30/01/13	-	01
		06/02/13	-	02
		13/02/13	-	03
		20/02/13	02	04
		27/02/13	02	03
		06/03/13	07	04
		13/03/13	08	04
		20/03/13	08	01

Impact:

- Prevention of contagious diseases through vaccination and deworming
- Treatment of ailing animals lead to improvement in livestock health
- Fodder plot developed by the farmers and thereby livestock productivity enhanced
- Improved housing for livestock resulted in clean milk production
- Crop residue enrichment with urea molasses resulted in economic production
- Strategic supplementation thereby improved reproductive efficiency

	
Regular organization of Health, Deworming, Deticking, vaccination, infertility camps	Fodder plot at Kodali
	
Farm & home visit	
	
Training programmes	

C. Publication:

Leaflets/Booklets	Books	Local Publication (News-paper)	Publications (Periodicals)	Radio & T.V. Talks	Practical Demonstrations	Exhibits/posters
0	0	01 Weather data daily in local newspapers daily. Periodical Weather reports.	0	0	23	43

D. Animal Health Camp, Cases Treated in Ambulatory Clinic and Hospital:**a. Animal Health Camps:**

Sr. No.	Date	Place/Village	Number of Cases attended						Total
			Medicine	Surgery	Gynaecology	Deworming	Spraying	Vaccination	
1	29/05/12	Bhatangali, Ta: Latur	189	53	120	384	384	384	1514
2	30/05/12	Bokangaon, Ta: Latur	72	59	149	35	-	580	895
3	31/05/12	Katpur, Ta: Latur	59	35	116	145	42	342	739
4	01/06/12	Chincholirao, Ta: Latur	165	81	138	482	482	482	1830
5	02/06/12	Chata, Ta: Latur	58	29	102	60	115	484	848
6	03/06/12	Chincholi (B), Ta: Latur	110	98	251	110	210	765	1544
7	05/06/12	Bhisewagholi, Ta: Latur	69	26	91	19	32	475	712
8	06/06/12	Borwati, Ta: Latur	112	21	110	96	-	576	915
9	03/08/12	Ramwadi, Ta: Renapur	27	08	32	-	-	281	348
10	06/11/12	Nandura (B), Ta: Ahmedpur	70	10	41	180	-	-	301
11	12/12/12	Dongarshelki, Ta: Udgir	01	01	03	90	110	150	355
12	29/12/12	Chimachiwadi, Ta: Jalkot	15	02	07	46	45	-	115
13	05/01/13	Sukni, Ta: Udgir	22	03	13	22	50	-	110
14	10/01/13	Deoni, Ta: Deoni	13	02	02	65	-	-	82
15	16/02/13	Takli, Ta: Udgir	114	02	13	82	130	-	341
16	22/02/13	Mortalwadi, Ta: Udgir	07	04	06	15	31	-	63
17	02/03/13	Arasnal, Ta: Udgir	32	07	15	31	20	-	105
18	08/03/13	Gudsur, Ta: Udgir	103	18	15	34	47	-	217
19	09/03/13	Hali, Ta: Udgir	57	50	50	-	-	-	157
20	16/03/13	Lohara, Ta: Udgir	114	24	57	25	180	-	400
21	22/03/13	Karadkhel, Ta: Udgir	31	06	45	770	222	-	1074
22	23/03/13	Tondchir, Ta: Udgir	50	10	40	-	150	-	250
23	30/03/13	Nalgir, Ta: Udgir	25	08	15	43	125	-	216
Total			1515	557	1431	2034	2375	4519	12431

Cases Treated in Hospital / Camps /Ambulatory Clinics:

Details as below

	Hospital	Camps	Ambulatory Clinics	Total
a. Medicine cases	3150	1515	344	5009
b. Surgery cases	1473	557	145	2175
c. Gynaecology cases (including A.I.)	443	1431	188	2062
d. Vaccination	--	4519	502	5021
e. Deworming	--	2034	90	2124
TOTAL	5066	10056	1269	16391

E. Visit of staff members and farmers:

Visit of staff member:

Sr. No.	Name of Teacher	Place	Date	Purpose
1	Dr A U Bhikane	Katpur, Ta: Latur	31/05/2012	Farmers Meet
2	Dr A U Bhikane	Chincholi (B), Ta: Latur	03/06/2012	Farmers Meet
3	Dr A U Bhikane	Ramwadi, Ta: Renapur	03/08/2012	Farmers Meet
4	Dr A U Bhikane	Chimachiwadi, Ta: Jalkot	29/12/2012	Farmers Meet
5	Dr A U Bhikane	Sukni, Ta: Udgir	05/01/2013	Farmers Meet
6	Dr A U Bhikane	Takli, Ta: Udgir	16/02/2013	Farmers Meet
7	Dr A U Bhikane	Arasnal, Ta: Udgir	02/03/2013	Farmers Meet
8	Dr A U Bhikane	Deoni, Ta: Deoni	03/03/2013	Farmers Meet
9	Dr A U Bhikane	Tondchir Ta: Udgir	23/03/2013	Farmers Meet
10	Dr. Pawar P H	Udgir	22/05/2012	Regarding goat farm
11	Dr. Pawankar K N	Udgir	22/05/2012	Regarding goat farm
12	Dr. Pawankar K N	Udgir	18/06/2012	Regarding dairy unit
13	Dr. Pawar P H	Udgir	13/07/2012	Goat Unit

Visit of Farmers to Institute:

Sr. No.	Date	No. of Farmers Visited
1	17/04/2012	01
2	19/05/2012	02
3	18/09/2012	25
4	09/10/2012	240
5	14/02/2013	19
6	06/03/2013	03
7	14/05/2012	04
8	17/07/2012	02
9	12/09/2012	06
10	17/09/2012	01
11	05/12/2012	02
12	08/01/2013	02
13	22/08/2012	02
14	14/09/2012	01

15	07/01/2013	04
16	24/06/2012	04
17	20/08/2012	03
18	10/11/2012	06
19	17/01/2013	04
20	18/06/2012	02
21	26/06/2012	01
22	27/06/2012	01

F. Exhibition:

Animal Husbandry, Dairy and Fishery Exhibitions:

Sr. No.	Title	Place	Date	No. of Farmers Visited
1	Exhibition	Nandura Ta. Ahmedpur	6.11.2012	150
2	Livestock exhibition on eve of Hawagiswami Yatra	Udgir, Dist. Latur	28.01.2013	116

G. Awards, Honors and Recognitions: Nil

H. Field Problems:

1. Lack of green fodder availability round the year:

Demonstrated silage making technique to the livestock owners and made availability of root slips of improved variety of fodder crops like Yashwant and Dharwad Napier.

2.Low nutritive dry fodder during summer:

Promoted livestock owners for cultivation of fodder crops and demonstrated urea-straw treatment to improve nutritive value of crop residues.

3. Non availability of Veterinary facilities: Regularly organized various animal health camps in adopted as well as nearby villages.

4. Significant increase in cattle suffering from nonmetallic/radiolucent foreign bodies (plastic, nylon & industrial waste) syndrome. A strong awareness is made regarding restricting their animals from access to the backyard waste and provision of mineral mixture to livestock for prevention and control of pica.

5. Cases of infertility were observed due to deficiency of minerals, deficiency of green fodder, lack of knowledge to utilize crop residues.

Farmers were advised regarding importance of mineral supplementation, balanced feeding.

6.Incidence of Black Quarter in vaccinated animals as well as calves less than 6 months

A multidisciplinary research on the same is undertaken and the work is going on.

7. Increase in incidence of ectoparasites in the livestock

Regular spraying of acaricide is under taken. Efforts taken to increase awareness by demonstration of spraying at village level in every work camp.

I. Success Stories: Nil

J. Village Knowledge Centre: --

K. Web Site:

Sr. No.	Type of extension material	Title
1	Extension module clip	“Kasdah” (mastitis)
2	Extension module clip	“Jaiv-suraksha” (Biosecurity in poultry house)
3	Extension module clip	“Navjat vasarachi niga” (Care of newborn calf)
4	Folder	“Lalya khurkut”
5	Book	Dugdhotpadanatil Panchsutri
6	Folder	“Kukkutalayatil jaivsuraksha”
7	Technical manual	Bater Palan
8	Technical manual	Mendhi Palan
9	Souvenir	Deoni Govansh Sanvardhan: Avhane va Sandhi
10	Folder	Gai mhashina kshar mishrane dya, dudh utpadan vadhava
11	Folder	Andhashradha dur kara vidnyanachi kas dhara
12	Folder	Kara pashunche jantnashan hoyil arogya sanrakshan
13	Folder	Bahyaparopjiv niyantran milel adhik pashu utpadan
14	Folder	Kara lasikaran hoyil janawaranche pransarakshan
15	Folder	Mhashitil urmodi kashi talal?
16	Folder	Lavhipalan
17	Folder	Mansal Kombadyache vyavasthapan
18	Folder	Kara Krutrim retan vadhava dugdh utpadan
19	Folder	Broiler pakshyanchya ghartyachi swachhata ani nirjantukikaran karyak ram
20	Folder	Kara lasikaran hoyil pakshanche jivan sanrakshan
21	Book	Swayanrojgarasathi kombadipalan
22	Book	Savistar Mansal Kombadipalan
23	Frequently asked questions with answers	FAQ from Extension, Medicine, Animal Nutrition and Poultry Science departments.

12. Visit of Important Dignitaries:

Sr.No.	Name & Designation	Full address	Reason	Date
1	Dr. A.K.Misra, Hon'ble Vice-chancellor	MAFSU, Nagpur	Official visit	06,07,08 December 2012
2	Dr. Abdul Samad, D.I. & Dean(Veterinary)	MAFSU, Nagpur	Official visit	16 & 17 July 2012
3	Dr.L.B.Sarkate, Director of Research	MAFSU, Nagpur	Official visit	23/01/2013
4	Dr.P. D. Deshpande, Director of Extension & Training	MAFSU, Nagpur	Official visit	01/12/2012
5	Shri. S.B. Daine Registrar	MAFSU, Nagpur	Official visit	01/12/2012

13. Construction Activities:

Sr. No.	University / College / Farm	Construction	Amount Allocated
1	COVAS, Udgir	Renovation of plaster for hostel building at COVAS, Udgir	Rs.4,49,511/-

2	COVAS, Udgir	Renovation of sanitary item for hostel building at COVAS, Udgir	Rs.4,98,008/-
3	COVAS, Udgir	External and internal colouring work for hostel building at COVAS, Udgir	Rs.4,00,591/-

14. Accounts and Finance: --.

15. Other Activities:

Participated as a judge in following cattle shows:-

S.N.	Place	Date
1	Malegaon Yatra, Dist. Nanded	12.01.2013
2	Halli, Tah. Udgir	20.01.2013
3	Udgir, Dist. Latur	28.01.2013

Lectures delivered in seminar /training programmes for field officers:

S.N.	Topic	Teacher's name	Date	Place
1	Pre and post partum metabolic disorders of dairy animals	Dr.A.U.Bhikane	30/01/2013	Latur
2	Treatment of eye cancer with BCG vaccine in cattle	Dr.V.M.Salunke	09/03/2013	Jalgaon
3	Management of metabolic disorders and productive enhancement in dairy animals	Dr.A.U.Bhikane	10/03/2013	Jalgaon
4	Pica in animals	Dr.A.U.Bhikane	19-3 2013	Vengurla

Trainings organized for Students by Training and Placement Cell


Topic	No. of students	Date	Place
Entrepreneurship & Personality Development	30	Mar 5-11, 2013 (7 days)	Udgir

Entrepreneurship Programme by Poultry science department:

Sr. No.	Date / Duration	Title of course	Course Teacher	Students strength/ batch	Total Investment	Profit/ Loss
1.	April – May 2012	Entrepreneurship on Broiler Production	Dr.S.J. Manwar	06	Rs. 52565/-	Rs.3862 / - Profit
2.	February – March 2013	Entrepreneurship on Broiler Production	Dr.S.J. Manwar	10	Rs. 75694	Rs. 169 loss

Entrepreneurship Programme by LPT department:

Sr. No	Name of Products	Milk Taken	Cost of Milk	Products Prepared	Processing cost (Electricity & Fuel)	Cost of Ingredients used for Preparation	Cost of Products	Profit Generated
1	Khoa	50 Lit.	Rs.1500/- (30/Lt)	13 Kg	Rs. 500/-	--	Rs.3250/- (250/Kg)	Rs. 1250/-
2	Paneer	30 Lit.	Rs. 900/- (30/lit)	6 Kg	Rs. 50/-	Rs. 20.00 (Citric Acid)	Rs. 1500/- (250/Kg)	Rs. 530/-
3	Ice Cream	10 lit.	Rs. 300/- (30/lit)	11 Kg	125/-	Rs. 434/-	1650/- (150/Kg)	Rs. 791/-

	Construction of broiler shed
	Entrepreneurial training on “Broiler farming”
	Daily recording of various parameters of environment and submitting data to IMD and publishing through local newspaper by Observatory
	Established e-Library & Intranet facilities for UG/PG students and staff members

The Department of Physiology, College of Veterinary and Animal Sciences, Udgir has established its own Observatory, giving honour to the College being the first Veterinary College in the University and probably in the country as well, having its own IMD approved observatory.

The observatory, established in the year **2000**, has recorded meteorological parameters and has collected a voluminous data on these parameters under various conditions. The department is maintaining record of weather data, as a step ahead for the development of a new faculty of science called **VETEROMETEOROLOGY** (on the lines of AGROMETEOROLOGY). It will also be used to develop animal weather forecasting, in the coming years of changes in climatic factors.

Sd/-
(Dr. N.V.Khode)
Member

Sd/-
(Dr. V.M.Salunke)
Member

Sd/-
(Dr.G.B.Deshmukh)
Member

Sd/-
(Dr.R.R.Mugale)
Member

Sd/-
(Dr. A. U.Bhikane)
Member, Secretary

Sd/-
(Dr.S.S.Kulkarni)
Chairman &
Associate Dean
COVAS, Udgir