



**REPRODUCTIVE BIOLOGY RESEARCH UNIT  
COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY  
ANAND AGRICULTURAL UNIVERSITY,  
ANAND-388110**

**Introduction:**

The Reproductive Biology Research Unit is engaged in post- graduate teaching in the subjects of Reproductive Biology and Biotechnology in farm animals. The department has animal farm of Surti buffaloes, RIA laboratory, ETT laboratory, Animal Science museum , *Mahila Pashupaln Talim Karyakram* Hall and Office of the Surti Buffalo Breeders Association (SBBA) of Gujarat. All the batches of internship students of Veterinary colleges of Anand and Navsari and students of polytechnic in Animal Science of Navsari and Junagadh colleges and BRS students etc., are regularly attending R.B.R.Unit centre. Research work on endocrinology of reproduction and research on embryo biotechnology (IVF) in buffaloes are carried out for various projects and PG students. Work on improving fertility in farm and field animals are also carried out. Extension activity through *Mahila Pashupalan Talim Yojna* and SBBA are continuing with the financial support by GCMMF, Anand and Dept. of A.H., Gandhinagar respectively.

**Present technical staff:**

	
<b>Dr. Nitesh P. Sarvaiya</b>	<b>Dr. A.P. Parmar</b>
Research Scientist & Head	Asst. Research Scientist

### Ongoing Research/ extension Schemes:

1	Reproductive Biology Research Unit BH 5311 AAU,Non-plan	1962 onwards
2	Strengthening of RBR Unit BH 12303-10; AAU, Plan	Contd. in 12 <sup>th</sup> FYP
3	Research on Embryo Transfer in Buffaloes. AAU Plan BH 12303-6	Contd. in 12 <sup>th</sup> FYP
4	<i>Mahila Pashupalan Talim Yojna</i> , B.H.18284	2006-till date
5	Surti Buffalo Breeders Association of Gujarat ; BH 18095	2014- till date

### Research scheme operated so far in last ten years:

Sr. No.	Title of the Scheme / Projects	Duration
1	Efficiency of Surti and Marwari Goats of Gujarat state BH 12313	1994-2013
2	Preliminary validation of selected Indigenous practices for induction of estrus in ruminants , NIF, Ahmedabad; B.H.18312	2007
3	Socioeconomic development of rural women through reproductive biotechnology in Cattle and Buffaloes, B.H.18311	2007-2010
4	Conservation and Development of Surti goats, Centrally Sponsored scheme B.H.18395	2009-12

### Awards/ Recognitions received in last ten years:

Sr.No.	Faculty	Award Received for	Year	Details
1	Chandubhai Patel (Vakil) Award Dr. N.P.Sarvaiya	For the best articles in International J. of Cow Sci.1(1)52-59.	2005-06	2500/- cash prize and citation
2	Young Scientist Award Dr. N.P.Sarvaiya and Dr. Ankita Killedar	Best paper presentation in XXIV convention of ISSAR Dec, 11-13, Bangalore PP.199 Suthar <i>et.al.</i> ,(2008)	2008	Citation As co-author

3	Young Scientist Award  Dr. N.P.Sarvaiya  (Mungad <i>et. al.</i> (2016))	National Seminar on and IV Annual Convention of SVSBT; December 16-17, 2016. GVC, AAU, Anand	2016	As a co-author
4	Dr. Ankita Killedar  Paremar C.P.  <i>et., al.</i> (2016)	Best paper published in a year The Indian J. of Veterinary Sci. and Biotechnology. 11(3):79-84.	2016	A s a co-author
5	Dr. Ankita Killedar,  Dr. A.P.Parmar,  Dr.N.P.Sarvaiya (2017)	Best oral paper presented in a session IAWV National Conference at Hyderabad	2017	Trophy and Citation

**Some of the PG/ UG Courses offered at present:**

Sr. No.	Course No.	Title	Credit
1	MBB-503	Molecular cell Biology	3+0
2	MBB-511	Animal Biotechnology	3+0
3	VOG-606	Reproductive Biotechnology	2+1
4	VPB-321	Reproductive Biotechnology (UG)	2+1

**Extension Activities conducted by the department in last ten years:**

Sr. No.	Details	Year
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1	RBRU staff attended <i>Krusha Mahotsav</i> every year	Every year
2	RBRU staff attended <i>Krushimela</i> as and when organized	Every year
3	8 Villages for two years- In and Off campus training Programme (15 each) on rural women under DBT Programme	2007-08 639+534=1173 women
4	Clinical camp in 6 villages under DBT programme – Infertility camp in cattle and buffaloes (2007-08)	Ravipura, Ankla, Sandesar, Navli, Tarnol and Kasor
5	Lectures on Farm animals reproduction management to visitors (farmers, farm women, students etc.) at RBR Unit.	> 1000
6	Mahila Pashupalak Din & Exhibition (DBT) organized	18-10-08
7	<i>Chomasa pahela Pashupalan ma Apada prabandhan nu Agotaru Ayojan workshop organized for farmers</i>	27-6-13
8	Seminar on "Commercial Dairy Farming" for the benefits of dairy farmers organised	13-9-2013
9	<i>Mahila Pashupalak Gaurav Din</i>	6-9-2017

**Number of *Mahila Pashupalan Talim Karyakram* of One Week duration Organized**

Sr. No.	Year	No. of Programmes	No. of Women Participated
1	2005-06	01	21
2	2006-07	04	81
3	2007-08	19	479
4	2008-09	23	553
5	2009-10	33	820
6	2010-11	17	435
7	2011-12	20	506
8	2012-13	20	518
9	2013-14	21	531
10	2014-15	22	550
11	2015-16	14	350
12	2016-17	29	751
13	2017-18	26	695
<b>Total</b>	<b>-</b>	<b>259</b>	<b>6587</b>

**Extension activities carried out through "Surti Buffalo Breeders Association" scheme up to June 2017**

Sr. No.	Activities	Villages	No. of Owners/ Beneficiaries	Others
1	Meeting	-	---	3
2	Village visited/ Awareness programmes	35	536	--
3	Off campus Training	5	111	--
4	On Campus Training	8	265	--
5	Calf/ Heifers Rally	4	297	--

6	Educational Tour	5	211	--
7	Publication in <i>vernacular</i>	----	----	1
8	Lectures delivered	---	----	37
	Total	57	1420	--

#### Recent Publications: Book/souvenir/compendium etc.

Sr.N o.	Details	Authors	Chapters' Title
1	Souvenir cum abstract compendium	Dhami, A.J., Ankita Killedar, N.P.Sarvaiya(2014)	National seminar on livestock breeding strategies to for production enhancement towards rural prosperity and National Convention of IAWV-2014
2	Research Highlights of RBR Unit	Dhami, A.J., Ankita Killedar, N.P.Sarvaiya, A.P.Parmar(2014)	Research highlights of RBRU,GVC,AAU,Anand (1958-2014)  GJC year of Veterinary college, Anand
3	Status Report	N.P.Sarvaiya, Ankita Killedar(2014)	Initiating Research in Embryo Transfer in Cattle and Buffaloes (BH 10303-6)
4	Research Bulletin	N.P.Sarvaiya Ankita Killedar(2014)	Embryo transfer in cattle and buffaloes with endocrine profiles

#### Recent Publications: Book/chapters/ etc. *in vernacular*

Sr. No.	Details	Editors	Title
1	Book-Gujarati	<i>Dr. Ankita Killedar</i>	<i>Pashupalan Ek Nafakarak Vyaysay (2006)</i>
2	Book-Gujarati	<i>Dr. Ankita Killedar</i> <i>Dr. A.P.Parmar</i> <i>Dr. N.P.Sarvaiya</i> <i>Dr. A.M.Thaker</i>	<i>Dudh Ganga: Safal pashupalako ni varta</i>
3	Viyan	<i>Dr. Ankita Killedar</i>	<i>Viyan Panchang</i>

	Panchang		
4	Vetar Panchang	<i>Dr. Ankita Killedar</i>	<i>Vetar Panchang</i>
5	Nondhani Register	<i>Dr. Ankita Killedar</i>	<i>Nondhani Register</i>
7	A monogram	Dr. Ankita Killedar and Dr. N.P.Sarvaiya (2012)	<i>Surti Bhensho ni Prajanan Kshamata Vadharavana Upayo</i>

**Other important achievements in last ten years:**

Sr. No.	Details	No./ Details
1	Total No. of M.V.Sc./M.Sc. thesis submitted so far	19
2	Total No. of Ph.D thesis submitted so far	14
3	No. of Farmers recommendations	6
4	No. of Scientific recommendations	6
5	No. of Samples analyzed for hormone assay	32,000
6	No. of Research papers published	24
7	Research papers presented	48
8	No. of vernacular publications	18

**XIII National Convention of IAWV & National Seminar On**

**“Livestock Breeding Strategies for Production Enhancement Towards Rural Prosperity”**

**26<sup>th</sup> - 28<sup>th</sup> August, 2014**

**Organizing secretary: Dr. Ankita Killedar**

**Co-Organizing Secretary: Dr. N.P.Sarvaiya and Dr. K.N.Wadhawani**





Release of Research Highlights of R.B.R.Unit ( From Lt. Dr. Ankita Killedar, Dr. Madhu Swami, Dr. S.Hannappagol, Hon.Dr. N.C.Patel (V.C.AAU), Hon. Prof.. M.C.Varshneya , Dr. Amrita Patel, Dr. A.M.Thker, Dr. N.P.Sarvaiya, Dr. A.J.Dhami



## મહિલા પશુપાલન તાલીમ કાર્યક્રમ

તારીખ ૦૬.૦૮.૨૦૧૮ થી તા. ૧૧.૦૮.૨૦૧૮ સુધી સાબર ડેરી, સાબરકાંઠા.





**પ્રજનનશાસ્ત્ર સંશોધન એકમ પશુચિકિત્સા અને પશુ પાલન મહાવિદ્યાલય  
આણંદ કૃષિ યુનિવર્સિટી, આણંદ.**

From: Lt. to Rt. Dr. N.P.Sarvaiya, Dr. A.M.Thaker (Dean/Principal), Dr. A.P.Parmar  
Team leader and women participants.





From: Lt. to Rt. Dr. S.K.Raval, Dr. D.N.Rank, Dr. A.M.Thaker (Dean/Principal),  
Shri. Ramchandrabhai, and Dr. N.P.Sarvaiya and Participants women (Surti buffalo owners).

### **Surti Buffalo Breeders Association**

On Campus Training Programme

Village : Surasaman, Date : 14/08/2018



From: Lt. to Rt. Dr. A.M.Thaker (Dean/Principal), Dr. Arunbhai Patel (DEE, AAU),



Dr. N.C.Patel (Hon. V.C.,AAU), Shri. R.S.Sodhi (MD, GCMMF) and Dr. Ankita Killedar (Ex. HOD,RBRUnit , Veterinary College, AAU,Anand)

**Mahila Pashupalak Gaurav Din** (Dated : 06-09-2017)