

INSTITUTIONAL PROJECTS (COMPLETED)

Sl.No.	Name of the Project	Name of PI/Co-PI	Date of Start	Date of Completion
1	Studies on different physiological stages of growth, blood metabolites and minerals and their relationship in mithun (<i>Bos frontalis</i>)	Dr. M. Mondal, Dr. C. Rajkhowa	November, 2002	April, 2008
2	Development and validation of hormone principles by enzyme immunoassay in mithun (<i>Bos frontalis</i>) plasma and its application for growth studies	Dr. M. Mondal, Dr. B.S. Prakash, Dr. C. Rajkhowa	July, 2003	June, 2006
3	Screening, evaluation and monitoring of parasitic diseases in captive mithuns	Dr. M. Mondal, Dr. K.M. Bujarbaruah, Dr. C. Rajkhowa	May, 2000	May, 2005
4	Studies on FMD in mithuns (<i>Bos frontalis</i>) with particular reference to epidemiology and seromonitoring	Dr. S. Rajkhowa, Dr. D.K. Sarma, Dr. C. Rajkhowa	May, 2003	May, 2006
5	Developing macro and micro element map of mithun grazing areas in Nagaland	Dr. A. Dhali, Dr. M. Mondal, Dr. C. Rajkhowa, Dr. A. Mech, Dr. B. Sarma	July, 2003	May, 2007
6	Studies on prevailing disease of mithun	Dr. S. Rajkhowa, Dr. D.K. Sarma, Dr. K.M. Bujarbaruah, Dr. C. Rajkhowa	May, 2002	April, 2003
7	Feeding locally available feed stuffs based on nutrient utilization in mithun (<i>Bos frontalis</i>)	Dr. B. Prakash, Dr. A. Dhali, Dr. A. Mech, Dr. C. Rajkhowa	November, 2003	December, 2007
8	To study the milk production performance of mithun (<i>Bos frontalis</i>) under semi-intensive system	Dr. A. Mech, Dr. A. Dhali, Dr. B. Prakash, Dr. C. Rajkhowa	January, 2004	January 2007
9	Mithun (<i>Bos frontalis</i>) rumen ecology and its manipulation	Dr. B. Prakash, Dr. A. Dhali, Dr. M. Mondal, Dr. C. Rajkhowa	April, 2005	March, 2008
10	Studies on estrous cycle in mithun (<i>Bos frontalis</i>)	Dr. A. Dhali, Dr. A. Mech, Dr. M. Karunakaran, Dr. C. Rajkhowa	November, 2004	May, 2005
11	Development of suitable protocol for preservation on mithun (<i>Bos frontalis</i>) semen	Dr. A. Dhali, Dr. M. Karunakaran, Dr. A. Mech, Dr. C. Rajkhowa	January, 2005	December, 2005
12	Studies on the role of colostrums on neonatal immunity and its effects on growth performance in mithun (<i>Bos frontalis</i>) calves	Dr. A. Mech, Dr. A. Dhali, Dr. S. Rajkhowa, Dr. C. Rajkhowa	January, 2005	January, 2008

13	Performance of mithun at different altitudes during different seasons	Dr. A. Dhali, Dr. A. Mech, Dr. C. Rajkhowa	April, 2006	March, 2009
14	Isolation, characterization, pathogenesis, antibiogram and treatment	Dr. S. Rajkhowa, Dr. C. Rajkhowa	May, 2006	May, 2009
15	Effect of feeding baker yeast (<i>Sacharomyces cerevisie</i>) in mithun (<i>Bos frontalis</i>) on roughage based diet	Dr. K. C. Das, Dr. B. Prakash, Dr. C. Rajkhowa	April, 2007	March, 2010
16	The mother neonate binding – use of oxytoxin intranasal spray	Dr. M. Mondal, Dr. C. Rajkhowa	April, 2006	March, 2008
17	Freezing and evaluation of mithun semen	Dr. M. Mondal, Dr. M. Karunakaran, Dr. C. Rajkhowa	April, 2006	September, 2007
18	Genetic studies on mithun (<i>Bos frontalis</i>)	Dr. A. Mukherjee, Dr. S. Mukherjee, Dr. B.R. Yadav, Dr. Kobu Khate, Dr. C. Rajkhowa	April, 2007	March, 2010
19	Mithun milk lipid: Characteristics and bioactive Properties	Dr. A. Mech, Dr. A. Dhali, Dr. B. Mann, Dr. C. Rajkhowa	June, 2008	October, 2012
20	Mithun milk protein: it's characterization and bioactive properties	Dr. A. Mech, Dr. A. Dhali, Dr. B. Mann, Dr. C. Rajkhowa	January, 2008	June, 2011
21	Evaluation of the Draught Capability of Mithun	Dr. K.K. Baruah, Dr. A. Dhali, Dr. M. Mondal, Dr. A. Mech, Dr. Kobu Khate, Dr. Kezhavituo Vüprü, Dr. C. Rajkhowa	01.08.2008	31.07.2012
22	Genetic study of leptin gene and its association with growth and nutrition performance of mithun (<i>Bos frontalis</i>)	Dr. A. Mukherjee, Dr. S. Mukherjee, Dr. K.C. Das, Dr. N.R. Sahoo, Dr. C. Rajkhowa, Dr. Kezhavituo Vüprü	September, 2008	October, 2012
23	Standardization of super ovulation and embryo transfer protocols in mithun (<i>Bos frontalis</i>)	Dr. K.K. Baruah, Dr. M. Mondal, Dr. C. Rajkhowa, Dr. B.C. Sarmah, Dr. B.C. Deka, Dr. P. Chakravorty	01.04.2007	31.02.2012
24	Genetic characterization of kappa casein gene of mithun (<i>Bos frontalis</i>)	Dr. S. Mukherjee, Dr. A. Mukherjee, Dr. Kobu Khate, Dr. C. Rajkhowa	August, 2007	August, 2011
25	Genetic characterization of rumen microbes in mithun	Dr. A. Dhali, Dr. A. Mech, Dr. B. Prakash, Dr. S. Naskar, Dr. S. Mukherjee, Dr. C. Rajkhowa	April, 2007	September, 2009
26	Effect of feeding different levels dietary protein on growth ,	Dr. K.C. Das, Dr. K. K. Baruah, Dr. G.	April, 2007	December, 2011

	nutrient utilization, carcass characteristics and leather quality in mithun (<i>Bos frontalis</i>)	Mukherjee, Dr. C. Rajkhowa		
27	Identification of novel genes involved in muscle growth of mithun (<i>Bos frontalis</i>) and its comparison with local cattle (<i>Bos indicus</i>)	Dr. M. Mondal, Dr. K.K. Baruah, Dr. N. Haque, Dr. S. Mukherjee, Dr.C. Rajkhowa	October, 2009	October, 2013
28	Isolation and characterization of pathogenic bacteria from mithun meat and milk using microbiological and molecular techniques	Dr. M. Mondal, Dr.C. Rajkhowa	June, 2010	May, 2012
29	Hormonal regulation of reproductive health in mithun	Dr. M. Mondal, Dr. K.K. Baruah, Dr.C. Rajkhowa	June, 2010	May, 2012
30	A study to find out status and economic of mithun husbandry in Nagaland	Dr. N. Prasad, Dr. R.K. Singh, Dr. N. Haque, Dr. M. Mondal, Dr. K.C. Das, Dr. K.K. Baruah	2010	2011
31	Development Of Economically Viable Feeding Strategy For Rearing Mithun In Intensive System Using Spent Grains From Breweries Industries	Dr. N. Haque, Dr. K.C. Das, Dr. M. Mondal, Dr. Saroj Toppo	April, 2010	March, 2013
32	Isolation and Characterization of Botanicals from NEH region for their Anti-bacterial or Anti-methanogenic Activities	Dr. N. Haque, Dr. K.C. Das, Dr. M. Mondal	April, 2010	March, 2013
33	Therapeutic and Preventive Management of Gastrointestinal Helminth Parasites of Mithun (<i>Bos frontalis</i>)	Dr. J.K. Chamuah, Dr. Vidya Singh, Dr. Kobu Khate, Dr. N. Prasad, Dr. C. Rajkhowa	July, 2010	December, 2013
34	Application of Fluorescent In-Situ Hybridization (FISH) To Find Out The Unique Features Of Mithun Chromosomes	Dr. A. Mukherjee, Dr. B.R. Yadav, Dr. Ravindra Kumar	April, 2011	March, 2014
35	Transcriptome analysis through RNA-seq approach and Whole Genome Sequencing of Mithun (<i>Bos frontalis</i>) (Inter-Institutional collaborative project)	Dr. S. Mukherjee, Dr. A. Mukherjee, Dr. Kezhavituo Vüprü, Dr. Kobu Khate	30.01.2013	31.03.2016
36	Genome Wide Association Studies for Growth and Efficiency of Mithun	Dr. S. Mukherjee, Dr. A. Mukherjee, Dr. N. Haque, Dr. Kezhavituo Vüprü	July, 2013	March, 2015
37	Impact of Heat Stress on Mithun Production and it's Amelioration Strategies	Dr. K.K. Baruah, Dr. N.Haque, Dr. R.K. Singh, Dr. V. Singh, Dr. A. Kumar, Dr. Kobu Khate, Dr. Kezhavituo Vüprü	01.05.2014	30.04.2016
38	Study on the Epidemiology of Important Disease (FMD,	Dr. Vidya Singh, Dr. J.K. Chamuah,	02.04.2014	31.03.2016

	Brucella etc.) of Mithun and their Association with Disease Resistance/Susceptibility	Dr. Akhilesh Kumar		
39	Studies on Ectoparasites of mithun (<i>Bos frontalis</i>)	Dr.J.K. Chamuah, Dr. V. Singh, Dr. A. Kumar, Dr. Kobu Khate, Dr. P.R. Dutta	February, 2014	January, 2016
40	Etiopathological Study of Papillomatosis of Mithun (<i>Bos frontalis</i>)	Dr. Vidya Singh, Dr. J.K. Chamuah, Dr. R.K. Singh, Dr. Naresh Prasad, Dr. Kobu Khate, Dr. C. Rajkhowa	July, 2010	June, 2013
41	Assessment of Veterinary Service Delivery, Livestock Disease Reporting, Surveillance Systems and Prevention & Control Measures taken in Nagaland for Mithun and other Livestock.	Dr. N. Prasad, Dr. V. Singh, Dr. A. Kumar, Dr. J.K. Chamuah, Dr. P. Perumal	01.11.2014	30.06.2016
42	Comparative evaluation of humoral and cell-mediated immune response of mithun (<i>Bos frontalis</i>) and Tho tho cattle	Dr. A. Kumar, Dr. V. Singh, Dr. J.K. Chamuah, Dr. Kobu Khate	04.10.2013	Sept 2015 (extended upto July, 2016)
43	Studies on biochemical Profile of Mithun (<i>Bos frontalis</i>) Semen for Enhancing Fertility	Dr. P. Perumal, Dr. J.K. Chamuah, Dr. Vidya Singh, Dr. A. Mukherjee, Dr. Kezhavituo Vüprü	01.03.2012	28.02.2014
44	Studies on Castper genes for evaluation of reproductive traits of Mithun (<i>Bos frontalis</i>) bulls for enhancing fertility	Dr. P. Perumal, Dr. J.K. Chamuah	01.03.2014	28.02.2016
45.	Chemical Fingerprinting and <i>In-Vitro</i> testing of some traditional Medicinal Herbs against Bacterial and Parasitic Diarrhoea in Mithun	Dr. Akhilesh Kumar, Dr. J.K. Chamuah, Dr. Vidya Singh, Dr. P.R. Dutta, Dr. Atul Borgohain, Dr. N. Haque, Dr. K.K. Baruah, Dr. .K. Singh	04.04.2015	04.03.2018
46.	Studies on Endocrinological Profile of Mithun (<i>Bos frontalis</i>) Bulls for Enhancing Fertility	Dr. P. Perumal, Dr. M.H. Khan, Dr. K.K. Baruah, Dr. J.K. Chamuah, Dr. S. Mukherjee, Dr. Kobu Khate	01.03.2014	28.02.2017
47.	Standardization of drying and block making techniques using locally available feed ingredients including agro-industrial by-products.	Dr. N. Haque, Dr. Tasvina R. Borah, Dr. N. Prasad, Dr. Kobu Khate	01.04.2015	31.03.2017
48.	Determination of level of Configured Linolic Acid (CLA) in mithun milk & meat under semi-intensive system of rearing.	Dr. Saroj Toppo, Dr. N. Haque, Dr. Kobu Khate	01.05.2016	30.04.2018
49.	Development of Mithun based Integrated Farming System Model for Sustainability and Livelihood Security of small and	Dr. M.H. Khan, Dr. N. Haque, Dr. S. Mukherjee, Dr. P. Perumal, Dr.	01.04.2014	March, 2019

	marginal farmers	Akhilesh Kumar, Dr. Rakesh Kumar, Dr. Rajesha G, Dr. Kobu Khate		
50.	Optimization of Mithun semen Freezing protocol through controlled freezing and Minimizing sperm damage	Dr. M.H. Khan, Dr. P. Perumal, Dr. S. Mukherjee, Dr. Vidya Singh	01.04.2014	March, 2017
51.	Epidemiology and Genetic Characterization of Eimerian Species in Mithun (<i>Bos frontalis</i>) calves	Dr. J.K. Chamuah, Dr. P.R. Dutta, Dr. Vidya Singh, Dr. Akhilesh Kumar	01.01.2015	01.12.2016
52.	Profiling gut microbiome of Mithun	Dr. Saroj Toppo	May 2017	December 2019
53.	Characterization of Physiochemical properties of Cervical mucus with reference to estrus behavior and endocrine profile in Mithun	Dr. M. H. Khan	May 2018	December 2019
54.	Phyto-Formulation for effective control against Leech infestation in Mithun (<i>Bos frontalis</i>)	Dr. J.K. Chamuah	June 2017	December 2019
55.	Genetic improvement of growth performance of Mithun (<i>Bos frontalis</i>)	Dr. S. S.Hanah	May 2017	April 2020
EXTERNALLY FUNDED PROJECTS (COMPLETED)				
1	Comparative studies on growth, nutrition utilization, carcass characteristics and leather quality in mithun and local cattle on tree leaves based ration	Dr. K.C. Das, Dr. K.K. Baruah, Dr. Goutam Mukherjee, Dr. A. Mukherjee, Dr. C. Rajkhowa	April, 2007	December, 2011
2	Conservation and propagation of quality mithun (<i>Bos frontalis</i>) germplasm in Nagaland	Dr. K.K. Baruah, Dr. M. Mondal, Dr. A. Dhali, Dr. B.C. Sarmah, Dr. B.C. Deka	June, 2008	June, 2011
3	Isolation and characterization of fibre degrading microbe and manipulation of rumen ecosystem	Dr. K.C. Das, Dr. S.S. Paul, Dr. P.K. Subudhi, Dr. S. Mukherjee, Dr. M. Mondal, Dr. K.K. Baruah	21.08.2009	20.08.2012
4	Application of endocrine biotechniques for induction of mother-neonates bonding in mithun (<i>Bos frontalis</i>)	Dr. M. Mondal	2009	2012
5	Elucidating the physiological and genomic regulation of ovarian follicular development for reproduction augmentation in mithun (<i>Bos frontalis</i>)	Dr. M. Mondal, Dr. K.K. Baruah, Dr. P.R. Ghosh	March, 2010	March, 2013
6	Prevalence and Molecular Epidemiology of Bovine Viral Diarrhoea (BVD) in Ruminants with Reference to Mithun (<i>Bos</i>	Dr. Vidya Singh, Scientist, Dr. J.K. Chamuah, Dr. R. K. Singh, Dr. N.	01.09.2013	August, 2016

	<i>frontalis</i>) in North East States of India.	Mishra, Dr. K. Rajukumar, Dr. S. Kalayraju, Dr. D. Himadri, Dr. S.S. Patil		
7	Genetic and Biodiversity Studies on Mithun	Dr. S. Mukherjee, Dr. Satish Kumar, Dr. A. Mukherjee	24.02.2011	28.02.2014
8	Identification of SNPs in Leptin Gene for Selection of Mithun (<i>Bos frontalis</i>) for Higher Growth Traits and Characterization of Leptin Protein	Dr. S. Mukherjee, Dr. S.N. Joardar, Dr. A. Mukherjee	14.03.2011	28.02.2014
9	Characterization and Purification of Lactoferrin from Mithun (<i>Bos frontalis</i>) milk and its antimicrobial potency on different pathogenic bacteria of mithun	Dr. K.K. Baruah, Dr. Rajkrishna Mondal, Dr. M. Mondal		Completed
10	Epidemiology and genetic characterization of important helminth parasites of mithun (<i>Bos frontalis</i>) in north-eastern hilly region of India	Dr. J.K.Chamuah, Dr. Vidya Singh, Dr. K.Khate, Dr. R. K. Singh, Dr. O.K. Raina	13.04.2012	12.04.2015
11	Elucidating the Mechanism involved in higher feed efficiency of bovine species by expression of the genes regulating mitochondrial proton leak kinetics	Dr. Nazrul Haque, Dr. Amitava Dey, Dr. K. C. Das, Dr. M. Mondal, Dr. S. Mukherjee, Dr. K. K. Baruah, Dr. Shankar Dayal,	01.11.2012	October, 2016
12.	Melatonin: A Potential Fertility Marker for Mithun (<i>Bos frontalis</i>) Bulls	Dr. P. Perumal, Dr. K.K. Baruah, Dr. M.H. Khan, Dr. J.K. Chamuah, Dr. Kobu Khate	05.12.2014	04.12.2017
13.	Onset of Puberty and Induction of Estrus: Role of Kisspeptin (KiSS1) in bovine species (Mithun and Cattle).	Dr. M.H. Khan, Dr. P. Perumal, Dr. M. Mondal, Dr. Anupam Chatterjee	13.03.2014	March, 2017
14.	Establishment of Bioinformatics Infrastructure facility for Biology Teaching Through Bioinformatics (BIF-BTBI) under the BTISnet	Dr. Akhilesh Kumar, Dr. N. Haque	March, 2011	Long Term Project
15.	Establishment of Institutional level Biotech Hub (IBThubs) by DBT Under Special Programme for North Eastern States of India	Dr. K. K. Baruah, Dr. Akhilesh Kumar	30.11.2011	Long Term Project
16.	National Mission for Sustainable Himalayan Ecosystem (NMSHE).	Dr. S. Mukherjee, Dr. N. Haque, Dr. M.H. Khan, Dr. P. Perumal, Dr. J.K. Chamuah	16.03.2015	15.03.2020

ICAR-NETWORK PROJECT (COMPLETED)

1	Morphometric and Genetic characterization of Mithun (<i>Bos frontalis</i>)	Dr. S. Mukherjee	October, 2008	October, 2012
2	Animal Genetic Resources (Network Project)	Dr. S. Mukherjee	26.04.2013	31.03.2015
3.	Veterinary Type Culture (Network Project).	Dr. N. Haque	2009	Completed
4.	All India Co-ordinated Research Project on FMD	Dr. Akhilesh Kumar, Dr. J. K. Chamuah and dr. H. Lalzampaia	01.01.2014	Completed