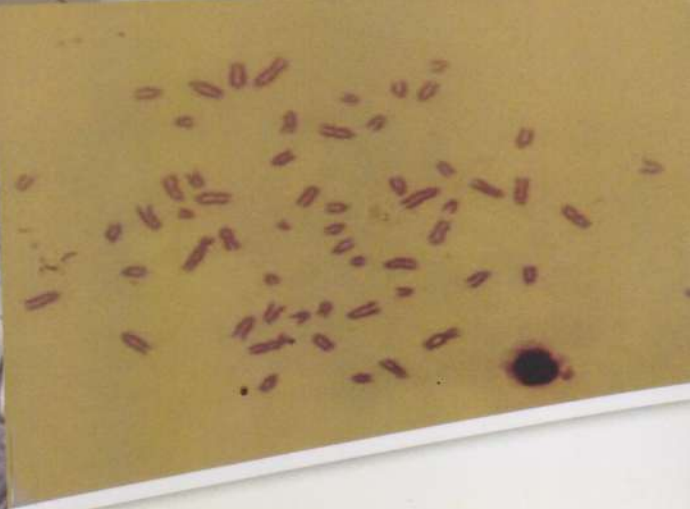


# SCIENTIFIC MITHUN HUSBANDRY FOR IMPROVING LIVELIHOOD



**ICAR-NATIONAL RESEARCH CENTRE ON MITHUN**

Jharnapani, Medziphema, Nagaland- 797 106

[www.nrcmithun.res.in](http://www.nrcmithun.res.in)



## Training Manual

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### Scientific Mithun Husbandry for Improving Livelihood

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## ***Training Programme***

*Jointly organised by*

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&  
Krishi Vigyan Kendra, Hengbung, Senapati, Manipur**

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## *Preface*

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North Eastern India is one of the three major biogeographical realms of the world having extremely rich floral and faunal biodiversity. Nagaland, Manipur, Mizoram and Arunachal Pradesh are endowed with rich germplasm of different endemic species including Mithun (*Bos frontalis*) among the seven North Eastern hilly states. Mithun plays unique role in the socio-cultural and economic life of the tribal population of NEH region. According to the latest livestock census (2012), the Mithun population has decreased especially in Mizoram, Manipur and Nagaland, because of traditional free-range rearing system. Mithun cows in general are bred by genetically inferior bulls available in the herd and also crossbred with other bovine species which leads to a decline in quality germplasma. Therefore, an integrated conservation and propagation programme is urgently required to preserve this precious animal species and this can be achieved through adopting modern husbandry practices such as improved managerial farm operations, health care management, improved feeding practices, selection of bulls and cows through biotechnological markers, accurate detection of oestrus and pregnancy, proper diagnosis and treatment of various reproductive disorders, implementation of various fertility improvement techniques such as estrus synchronisation, artificial insemination, embryo transfer technology, etc.

Every effort has been made to include various information related to scientific mithun husbandry to comprehend this manual. All of our valuable contributors were encouraged to provide suitable and fundamental informations to the trainees for improvement of knowledge, practical implementation of different technologies in their field conditions to enhance the socio-economic status of the livestock owners.

We acknowledge our contributors of this book who are working with the ultimate objective of conservation and propagation of this animal species to maintain sustainable improvement in tribal ethnic mithun rearing population. We wish to extend our sincere thanks to Tribal Sub Plan programme, Government of India for the financial support. The organizing committee is highly thankful to the Director, NRC on Mithun, Nagaland for his valuable advice and guidance..

**Editors**

Date: 2<sup>nd</sup> February, 2015



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