

## National Training Programme

on

### "Hands on Training Programme on basic molecular biology tools and techniques"

A National training programme on “Hands on Training Programme on basic molecular biology tools and techniques” was organized by ICAR-National Research Center on Pig, Guwahati, Assam, India, which was funded by ICAR-Scheduled Caste Sub Plan (SCSP) Programme from the 3<sup>rd</sup> March to 5<sup>th</sup> March, 2022. This hands-on training was intended for Scheduled Caste community researchers/students interested in basic and advanced molecular biology research for career advancement. Dr. Rajib Deb, Scientist and Coordinator, and Dr. Seema Rani Pegu, Senior Scientist and Nodal Officer, SCSP Training Programme, coordinated the training programme. The programme started on March 3, 2022, with an inaugural session, and the competent authorities released a training manual. A total of eight Scheduled caste communities’ students from four different states in India viz. Assam, Tripura, UP and Haryana participated the Hands-on training programme.



Trainees were given hands-on experience with various molecular biology tools such as genomic DNA extraction, RNA isolation, cDNA synthesis, qualitative assessment of DNA/RNA, agarose gel electrophoresis, SNP detection, PCR, SDS-PAGE, ELISA, Real Time PCR based quantification, cell culture techniques, and bioinformatic tools during the training programme. Dr. Swaraj Rajkhowa, Principal Scientist; Dr. N H Mohan, ICAR-National Fellow; Dr Pranab Joyti Das, Principal Scientist; Dr Jaya, Scientist; and Dr Satish Kumar, Scientist were all part of the faculty team that provided students with hands-on training in various molecular biology tools and techniques. Technical faculty members for the training

programme included Dr. Gyandendra Singh Sengar, Research Associate, and Dr. Joyshikh Sonowal, Research Associate, both of Animal Health Laboratory.





Dr. V K Gupta, Director, ICAR-National Research Center on Pig, Guwahati, Assam, presided over a valedictory session on the final day of the training programme. Based on the feedback from the trainees, the director expressed his satisfaction with the program's execution. The course Coordinator of the training programme presented a brief report on the activities carried out as part of the programme. During the valedictory session, the Director also distributed certificates of participation. Dr. Jaya, Scientist and member of the organising committee, concluded the programme with a vote of thanks.

## ICAR-NRC on Pig, Rani, Guwahati, Assam organizes Training Programme on Scientific Pig Production and Management from 21-23 March, 2022

ICAR-NRC on Pigs organized a training programme on **Scientific Pig Production and Management** under the SCSP programme for Scheduled caste farmers from 21-23 March, 2022. A total of 19 participants from 4 villages viz., Rampur, Gargara, Chatrapara and Maravita of Kamrup, Assam participated in the training programme. Dr. Seema Rani Pegu, Sr. Scientist; I/C SCSP and convenor of the training programme welcomed participants during the inaugural ceremony. Dr. Kalyan De, Co-ordinator of the programme briefed the participants about the training programme and expected outputs. After that, Dr. B.C Das, Principal Scientist, emphasized the need for scientific pig farming to meet the demand for pork and upliftment of livelihood of the rural farmer participants.

During this training programme a total of 14 lectures were delivered by different scientists of the institute. The lectures on topics ranging from the housing and building construction for pig farm, breeding management, nutritional management, reproduction management, health management, bio-security of the farm and different available schemes for pig farmers were delivered. Trainees were provided with training kits and training manual. In the valedictory programme the trainees provided their feedback and were happy with the knowledge gain through the training programme. Farmers expressed their confidence to overcome the devastating damages caused by ASF and other diseases through practicing and adopting scientific pig farming in their pig farms. In this occasion training cell in-charge Dr. R. Islam, Pr. Scientist also encouraged the farmer to practice and implement the technology received during the training programme in routine swine husbandry. In this programme, Dr. V.K. Gupta, Director, ICAR-NRC on Pig released a training manual on scientific pig production and management and distributed an e-copy of the training manual along with the training completion certificate to the participants. During his concluding remarks respected Director emphasized on the significance of scientific pig farming in making India Atmanirvar and his expectation from trainees to improve their economic and social status through scientific pig farming. The training was coordinated by Dr. Kalyan De, Sr. Scientist; Dr. Nitin M. Attupuram, Scientist and Dr. Souvik Paul, Sr. Scientist.





## ICAR-NRC on Pig, Rani, Guwahati, Assam organizes Training Programmes on Artificial Insemination in Pigs from 24-26 March, 2022

ICAR-NRC on Pigs organized a training on Artificial Insemination in Pig under SCSP programme for SC farmers from 24-26 March, 2022. A total 23 farmers from Assam participated in the training. Dr. V.K. Gupta, Director, ICAR-NRC on Pig emphasized on the importance of Artificial Insemination in Pigs for the rapid dissemination of superior germplasm for quick expansion of commercial piggery in the State. Training cell I/C, Dr. R. Islam and Convener of the training, Dr. Seema Rani Pegu, I/C SCSP welcome the trainees and briefed about the modelities of the programme. During the programmes, the hands on training were also imparted on the scientific pig production with a special emphasis on Artificial Insemination in Pigs by Dr. Sunil Kumar. The trainees were provided with the exposure to the different aspects of AI, such as, selection of breeding boar, training of boar for semen collection, semen collection, evaluation of semen and processing of semen for AI. Training kit, mineral mixture, supplements and semen transportation vessels were provided to trainees. The training was coordinated by Dr. R. Islam, Pr. Scientist; Dr. Pranab Jyoti Das, Pr. Scientist and Dr. Sunil Kumar, Scientist.

