

THIRD COUNTRY TRAINING PROGRAMME



ORGANIZED BY

**JAPANESE INTERNATIONAL CO-OPERATION AGENCY (JICA)
AND
CENTRAL SILK BOARD (CSB),INDIA**

**“THIRD COUNTRY TRAINING PROGRAMME IN
BIVOLTINE SERICULTURE TECHNOLOGY”
ORGANIZED BY
JAPAN INTERNATIONAL CO-OPERATION AGENCY (JICA)
AND
CENTRAL SILK BOARD (CSB),**

General Information:

India has the unique distinction of being the only country producing all the known commercial varieties of natural silk, viz., Mulberry, Tropical Tasar, Temperate Tasar (Oak Tasar), Eri and Muga. India ranks second among the silk producing countries of the world accounting for about 20% of the total global silk production with productivity level of 86.25 kg/ha. Although the quantity of silk production is declining world-wide, India is the only nation in the world where silk production has been increasing in recent years besides China. India enjoys various advantages for development of sericulture such as growing domestic demand for raw silk, wide spread mulberry farming; good climatic conditions, cheap labour force and long history of sericulture, all put it into excellent position.

India is the largest consumer of natural silk in the world and the demand for silk is consistently increasing in the country. As a result, the demand-supply gap especially for Bivoltine is widening. To fill this widening gap, the Government of India has launched three projects with the assistance from Japan International Co-operation Agency (JICA) to evolve appropriate technologies, their verification and demonstration in the tropical field conditions and establishing replicable extension model to popularize the Bivoltine Sericulture in the tropical conditions of India since 1991. All the three phases of JICA Cooperation have helped to establish a proven Bivoltine Sericulture Technology suitable to tropical climatic in the country. Besides, the project generated sufficient trained manpower through organizing In-Country training to the field functionaries, training of Central Silk Board Sericulture Experts in Japan required for sustainability of bivoltine sericulture technology.

After documenting the success achieved under different phases of JICA collaboration in popularizing the tropical Bivoltine sericulture technology in India, it was felt that the same to be replicated in other south-east Asian countries. The Japan International Cooperation Agency (JICA) and the Central Silk Board (CSB), India had renewed their co-operation and jointly organized a training course in the field of Bivoltine Sericulture Technology (hereinafter referred to as “the Course”) under the name “*Third Country Training Programme*”.inviting participation from Afro-Asian Countries during 2008-09 and trained 26 participants. The candidates trained under III Country Training programme have appreciated the programme and the participating countries have requested JICA/CSB for extension of the training programme for 3 more years. Hence, The **Japan International Cooperation Agency (JICA)** and the **Central Silk Board (CSB), India proposed** their co-operation in organizing a training course in the field of Bivoltine Sericulture Technology (hereinafter referred to as “the Course”) under the name “**Third Country Training Programme**”. for three more years wef 2009-10.

Human Resource Development:

Trained human resource is one of the critical requirements for the production of quality silk at a reasonable cost. Sericulture as any other rural based cottage industry needs trained technical personnel to train and transfer the technology to the rural mass. CSB has been playing a pivotal role in generating the required technical manpower. It is organizing different training programmes for the benefit of various stakeholders of the industry. These programmes are tailor-made to meet the specific needs of each sector for updating the knowledge and skills of the extension personnel.

The performance of the Policy makers, middle management executives and extension functionaries depends on their professional competency acquired by experience and exposure to in service training. In view of the new developments taking place in the field of sericulture, all forward-looking nations give due consideration for updating the knowledge and skill of the workforce engaged in sericulture.

Collaborating Agencies:

1. Japan International Cooperation Agency (JICA):

The Japanese Government through JICA extends technical cooperation under Official Development Assistance (ODA) programme to developing countries for self sustenance that will lead to economic progress and a better life for the citizens of those countries. As a part of above, JICA had implemented Bivoltine Sericulture Development Projects with collaboration with Central Silk Board, Govt. of India, Bangalore since 1991 and developed the Bivoltine Sericulture Technology packages suitable to Tropical Climatic conditions which requires for further popularization to other countries for self sustenance.

2. Central Silk Board (CSB)

The **Central Silk Board (CSB)**, a statutory body under the administrative control of Ministry of Textiles, Govt. of India, has been entrusted with the overall responsibility of developing silk industry covering the entire gamut of sericulture industry in the country. Central Silk Board has its head quarters in Bangalore. Under the umbrella of Central Silk Board, a good number of research institutions are working for the cause of technology development under Research and Development programme. CSB has created a large pool of trained manpower under JICA assisted Projects on Bivoltine Sericulture Technology which is available for organizing the "Third Country Training Programme for Bivoltine Sericulture Technology". In the past, CSB with support from the International Centre for Training and Research in the Tropical Sericulture (ICTRETS) had also organized training programme for sericulture development in tropical countries.

Objectives of the Programme:

The Course will be conducted to disseminate the tropical Bivoltine Sericulture Technology among the third world countries specifically Asian and African countries with the following objectives;

- To disseminate knowledge & understanding on policy and institutional frameworks supporting sericulture / silk industry in India.
- To develop human resource on “Bivoltine Sericulture Technology” for bringing improvement in production and production of quality silk and self sustenance of technology.
- Applications of acquired knowledge and techniques for sericulture development in participants own country.
- To promote mutual understanding and friendship between Japan, India and participating country.
- To acquire specialized training in the fields of Seed production technology, mulberry and silkworm crop protection technology, cocoon processing technology

The training programme on Bivoltine Sericulture Technology has two sub-courses covering (1) Administrative Course designed for Administrative Officers involved in planning, policy making and institutional development for sustenance of sericulture and (2) Technical Course to improve knowledge of technical staff involved in development and dissemination of sericulture technology.

The purpose of the course is to improve knowledge, skills and acquire specialized knowledge in the field of Bivoltine Sericulture Technology through lectures and observations regarding the background, policy, concept and practices of Bivoltine Sericulture in India. The course aims to specify problems and solutions, formulation of Action Plan for their countries, thereby helping the participants to contribute for promotion of Bivoltine Sericulture Technology in their countries.

Institutions Involved in Training:

1. Central Sericultural Research and Training Institute (CSRTI), Mysore

CSRTI, Mysore is the pioneer Sericultural Research Institute under Central Silk Board, involved in the Research and Development of technologies to increase the productivity and improve upon the quality of silk produced in the country. The institute is equipped with sufficient technical manpower to support R&D activities. The Institute also conducts training programmes in Sericulture Technology for national as well as foreign candidates. Training Curriculum also supports development of extension methodologies and communication techniques. The appropriate tropical sericulture technologies developed by the Institute resulted in the spread of sericulture to non-traditional areas of the country also and has acclaimed recognition at international level. This resulted in the establishment of an International Centre for Training and Research in Tropical Sericulture (ICTRETS) under Indo-Swiss bilateral co-operation in September, 1980 to generate manpower in sericulture both at national and international levels. The Institute has imparted training to more than 550 foreign students from 30 countries under ICTRETS .

2. Central Silk Technological Research Institute, (CSTRI), Bangalore

CSTRI, Bangalore was established in 1983 to give R&D support to Post Cocoon activities of the country with an objective to improve the silk quality and productivity, providing services to the industry, enterprise development and disseminating the Market information. CSTRI has been addressing the problems faced by the industry with constant interactions with the concerned groups. It is extending R&D support, technical services, training for use of improved machinery, skills and entrepreneur development. The institute has developed and patented a number of technologies, machineries and equipments which are available for commercialization. The institute is equipped with sufficient manpower to support R&D in reeling, weaving, wet processing and training & extension. The institute conducts regular structured course leading to P.G. Diploma and also involved in planning and execution of various Certificate Courses.

3. Silkworm Seed Technology Laboratory (SSTL), Bangalore

SSTL, Bangalore was established in 1991 is now under the control of national Silkworm Seed Organization and is involved in conducting research exclusively on silkworm seed technology, developmental biology, reproductive physiology & bio chemistry and seed pathology. It also conducts training programme on Seed Technology & Grainage Management. The institute is equipped with sufficient manpower to support Research and Training activity.

Course Details:

1. Title of the course: "Bivoltine Sericulture Technology".

The Course has two sub-courses under which the participants shall be trained:

(i) Administrative course

Duration : Two weeks
 No. of Participants/ batch : Fifteen (15). One each from participating country

(ii) Technical course

Duration : Twelve weeks (8 weeks for general sericulture and 4 weeks on specialized courses).**The participating Countries should indicate any one of the specialized courses (1) Seed production technology, (2) mulberry and silkworm crop protection technology, (3) cocoon processing technology to be attended by the candidates while filling application.**

No. of Participants/ batch : Fifteen (15). One each from participating country

2. Target Group

Administrative course - Officers involved in policy makings and institutional development for sericulture.

Technical course – Technical staff involved in development and dissemination of sericulture technology.

3. Language of Instruction : English

4. Commencement of Courses :

Administrative Course : February 22,2010 to March 8,2010 (two weeks)

Technical Course : March 09 ,2010 to May 31,2010 (Twelve weeks)

5. Last date of receipt of application form: January 20 , 2010 for Administrative Course and February 08, 2010 for Technical Course.

6. Invited Countries:

Bangladesh, Cambodia, Ethiopia, Ghana, Indonesia, Kenya, Laos, Madagascar, Nepal, Nigeria, Pakistan, Philippines, Sri Lanka, Vietnam, Uganda, Cuba, Thailand, Kazakhstan, Uzbekistan, Kyrgyzstan, Egypt and Iran.

7. Training Institutions:

Administrative Course:

- Central Sericultural Research & Training Institute, Central Silk Board, Govt. of India, Manadavadi Road, Mysore-570008, Tel: 91-0821-2362757,

Technical Course:

- Central Sericultural Research & Training Institute, Central Silk Board, Govt. of India, Manadavadi Road, Mysore-570008, Tel: 91-0821-2362757,
- National Silkworm Seed Organization /Silkworm Seed Technology Laboratory, Central Silk Board, Govt. of India, Madiwala, Bangalore-560068, Tel: 091-080-26282699
- Central Silk Technological Research Institute, Central Silk Board, Govt. of India, BTM Lay Out, Bangalore-560068, Tel:091-080-26282699,

8. Accommodation:

- Single bachelor accommodation shall be provided in Good Hotel available at Mysore and Bangalore during their stay.

9. Allowances & Expenses:

Course will provide allowances towards following expenses:

Round the trip Economy class air ticket by shortest route, living allowance, expenses on study tours and medical care for participants who become ill after arrival in India etc. Necessary PTA advice/E-tickets will be issued in this regard.

10. Eligibility:

- To be nominated by the respective governments
- To be presently engaged or expected to be engaged in the future in development and sustenance of sericulture.
- To have practical experience of more than three (3) years in sericulture
- To be under fifty (50) years of age
- To be in good health, both physically and mentally, in order to complete the course and
- To have working knowledge of English in both oral and written forms of communication

11. Application Procedure:

The Government of respective countries desiring to nominate applicants for the Course shall forward five (5) copies of the duly filled in prescribed application form for each nominee to the Director, Ministry of Finance, Department of Economic Affairs, Govt. of India, North Block, New Delhi-110011 through its diplomatic channels for onward submission to the Member Secretary, Central Silk Board, CSB Complex, BTM Layout, Madiwala, Bangalore-560068, INDIA through Ministry of Textiles, Govt. of India by the last date stipulated in the application form with advance intimation to Central Silk Board, Govt. of India, Bangalore.

The Government of India will inform the applying Governments, through diplomatic channels, whether or not the applicant(s) is / are accepted to the course within the stipulated date indicated in the application form with advance intimation to the selected candidates/participating countries.

The participant should prepare one page Report on sericulture in their country covering sericulture plan, policies, scope for expansion, market strategies and submit along with the application.

12. Course Curriculum:

1. Administrative course (2 weeks : 15 participants) - For officers in charge of policy makings and institutional development for sericulture technology.

- Orientation
- Presentation of Job Report by the participants.
- Visit to museum, general sericulture, functional & extension network followed for bivoltine sericulture & important sericulture statistics
- JICA and its role in promotion of bivoltine sericulture in India

- Plan and policies of sericulture in India, development of sericulture through various plan periods, Important projects implemented during the country
 - Development schemes during 11th plan for sericulture development
 - Organizational structure of CSB and DOS followed for administrative and extension supervision
 - Bivoltine silkworm seed multiplication system followed in India
 - Technologies & package of practices for mulberry cultivation & silkworm rearing Marketing of cocoons, raw silk & Post cocoon operations
 - Visit to DOS regional office, Karnataka Silk Industries Corporation, Silkworm Seed Production Centers, reeling units, sericulture villages & farmers, grainage, cocoon market, basic seed farm, Capacity development Centers (training schools), Programme planning Group discussions
2. **Technical course** (12 weeks; 15 participants) – For staff in charge of development and dissemination of sericulture technology.
- Orientation
 - Presentation of Job Report by the participants.
 - JICA and its role in promotion of bivoltine sericulture in India
 - Plan and policies of sericulture in India, development of sericulture through various plan periods, Important projects implemented during the country
 - Soil fertility and it's management, general sericulture, package of practices for mulberry, calculation of fertilizers, Mulberry pests and diseases and their management, leaf harvesting
 - Silkworm breeds for tropical sericulture, Silkworm seed multiplication system followed in India, disinfection of rearing house, calculation of disinfectant solutions, Chawki rearing, late age rearing, Silkworm rearing - Practical
 - Mounting, types of mountages, Cocoon quality parameters, etc.
 - Mechanization in sericulture
 - Economics of sericulture, marketing, concepts of benefit cost ratio, net present value, break even analysis and it's importance
 - Extension education, extension communication methods, teaching aids, elements of learning, knowledge, skill and attitude, supervision, diffusion of innovations, etc.
 - Post cocoon activities in sericulture
 - Visit to important sericulture practicing areas in south India, cocoon markets, silk exchange, department of sericulture, research institutes, etc.
 - Specialized courses in any one of the fields of (1) Seed production technology, (2) mulberry and silkworm crop protection technology, (3) cocoon processing technology as per the option of the trainees.

13. Location of CSRTI, Mysore:

The CSRTI is located in the southern part of Mysore city on the H.D. Kote - Manandavadi Road at about 8 km from Railway Station. Mysore has a long illustrious history of being one of the major seats of learning in southern India. Apart from being the centre of advanced studies under University of Mysore, the city also houses a number of academic and research institutions of International repute. Mysore is situated at an altitude of 759.9 m (2492 ft) above

mean sea level, with latitude 12.18°N and longitude 76.42°E. Mysore receives an average rainfall of 710 mm with the temperature ranging between 33 °C and 18 °C. It is well connected to the important cities by rail and road. The nearest airport is at Bangalore, the capital city of Karnataka, which is only 140 km away from Mysore.

14. Enquiry:

For enquiries and further information, please contact JICA India Office / Central Silk Board at the following addresses;

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