

7. プロジェクト開始時期と取るべき措置

プロジェクト開始前の準備に必要な期間等を考えると、プロジェクトは2002年7月からの開始とすることが妥当と思われる。ただし、その前提としては、対象施設(地域)数を日本側が判断するための情報を、インド側が2002年1月中旬までに日本側に提出し、かつ州政府蚕糸局(DOS)と繊維省中央蚕糸局(CSB)との連携に係るMOUをR/Dまでに締結することが必要である。

一方、フェーズ2プロジェクトの終了(2002年3月末)からフェーズ3プロジェクト開始までの数か月間の空白があることについて、インド側より、フェーズ2プロジェクト専門家の延長が要望された。同期間は、フェーズ3プロジェクト開始に向けたインド側の準備が行われる期間であることから、専門家により必要な助言を得たいというのが主たる理由である。フェーズ3の詳細内容自体は、プロジェクト開始後に決められるべきものであるが、フェーズ2プロジェクトで供与された機材の移設及びカウンターパートや補助スタッフの異動を防ぐとともに、フェーズ3プロジェクトのためにCSB/DOSが行う準備活動をモニタリングするためには、専門家の存在が重要であり、専門家の延長(身分はフォローアップ専門家に切り替え)が必要であると判断される。

付 属 資 料

1. ミニッツ
2. CSBの組織図
3. CSB本部(バンガロール)機構図
4. カルナタカ州養蚕普及所、養蚕研修校
原蚕種製造所、蚕種(交雑種)製造所
5. アンドラプラデシュ州養蚕普及所、養蚕研修校
原蚕種製造所、蚕種(交雑種)製造所
6. タミルナド州養蚕普及所、養蚕研修校
原蚕種製造所、蚕種(交雑種)製造所

Minutes of Discussions
of the Preparatory Study Team for The Project
for Strengthening Extension System for Bivoltine Sericulture

The Japanese Preparatory Study Team (hereinafter referred to as "the Team"), which was organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Noriaki NIWA, visited India for the purpose of clarifying the feasibility of the project and formulating a master plan of the proposed project entitled "The Project for Strengthening Extension System for Bivoltine Sericulture" (hereinafter referred to as "the Project").

During its stay in India, the Team conducted a field survey as well as a series of discussions with the authorities concerned of the Government of India.

As a result of these discussions, the Team and the Indian authorities concerned agreed to report to their respective governments the matters referred to in the document attached hereto.

Delhi, December 21, 2001



Mr. Noriaki NIWA
Team Leader
Japanese Preparatory Study Team
Japan International Cooperation Agency



Ms. Kiran Dhillon
Joint Secretary
Ministry of Textile

ATTACHMENT

I. Introduction

In India, the present production of silk is 16000mt against an estimated requirement of 22000mt. The supply gap is met by import, which is mainly for warp. Since over 98% of raw silk produced in India is of multivoltine variety which is not suitable for warp, the Government of India is according high priority for improving the productivity and quality of Indian Silk and also to enhance production.

Under this plan, the Central Silk Board (hereinafter referred to as "CSB") implemented the Bivoltine Sericulture Technology Development Project (BSTDP) to improve bivoltine sericulture technology in the research institutes of the CSB through project-type technical cooperation from the Japan International Cooperation Agency (hereinafter referred to as "JICA") from June 1991 to March 1997.

Based on the achievement of the BSTDP, the Project for Promotion of Popularising Practical Bivoltine Sericulture Technology (PPPPBT) was initiated from April 1997 for the period of 5 years for verification of technology developed in BSTDP under field conditions and to demonstrate the improved technology to the selected farmers and reelers. Adopting this new proven technology, farmers could increase their yield and income by two to three times as the quality improvement to 4A grade with a renditta of 5.5 to 7.

With the success of PPPBST, and mounting pressure from the farmers and reelers, the State Governments of Karnataka, Andhra Pradesh and Tamil Nadu have prepared ambitious plans for large-scale expansion of bivoltine sericulture. Since expansion and promotion of bivoltine sericulture demands proper planning, systematic approach for training, and organized system of extension, the Ministry of Textile submitted a proposal to JICA for a technical cooperation project for Strengthening Extension of Bivoltine Sericulture (hereinafter referred to as "the Project") with aiming at developing functional extension system for bivoltine sericulture. In response, JICA dispatched the Preparatory Study Team to study the feasibility of the proposed project and formulating a master plan through field survey as well as series of discussion with the Indian officials concerned.

II. Basic Understandings on the Project

Through the series of discussions, the Indian authorities and the Team attained a mutual understanding in the following points.

1. Areas to be Strengthened

At present, most of the production and processing system of silk in India is groomed for multivoltine silk production. Multivoltine sericulture can withstand low rearing management and simple seed production and processing. Therefore, in order to promote bivoltine sericulture, the followings are needed: 1) maintenance and multiplication of bivoltine breeds without losing the original characters; 2) production of quality silkworm seed cocoons and large-scale production of bivoltine eggs; 3)

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improvement of the knowledge and skills of staff of the Department of Sericulture (hereinafter referred to as "DOS") of the State Governments and farmers through practical training; and 4) strengthening of the existing extension system for bivoltine sericulture. Moreover, coordination mechanism between CSB and DOS is essential for the success of promotion of bivoltine sericulture.

2. Basic Concept of the Project

Based on the above recognition, the both sides agreed that the Project will aim at developing functional system for the promotion of bivoltine sericulture. While extension activity itself will be conducted by DOS with its own responsibility, the Project will focus on formulating action plan, establishing a system for mass production of quality seed, strengthening training system, and establishing a extension model by working with limited number of target institutions. Recognizing also that this project would run simultaneously with the states programme for extension of bivoltine sericulture, and the system established through this project would be extremely useful for that larger project. Both sides agreed that training and experience gained by the counterparts of DOSs and strengthening of the institutions through the implementation of the Project would be used by DOSs to simultaneously disseminate bivoltine sericulture technology in other parts of the states concerned without affecting the quality, pace and conditions of the Project.

3. Coordination/Cooperation Mechanism between CSB and DOS

In the Project, DOSs are mainly responsible for extension of bivoltine sericulture, while CSB provides necessary training and guidance, coordination, and monitoring function. Therefore, it is essential to set up an effective coordination /cooperation mechanism between CSB and DOSs to implement the Project. While the Member Secretary of the Central Silk Board will be Project Manager and chief coordinator for the Project, Bivoltine Cell established at the CSB Head Quarter will be a secretariat to promote bivoltine sericulture in the targeted states and to cooperate with the Bivoltine cells set up at each DOS. The mechanism for monitoring and coordination is mentioned in III.

It is also agreed that the Memorandum of Understanding addressing the role and responsibility of each party and coordination mechanism will be signed before the signing of the Record of Discussion (hereinafter referred to as "R/D").

4. Role and Responsibility of CSB and DOS

CSB is in charge of race maintenance, seed multiplication, seed production, training of DOS staff, and technical advice to the staff of Technical Service Centers (hereinafter referred to as "TSC"). Moreover, CSB is responsible for coordinating with DOS in formulating plan and monitoring project activities. On the other hand, DOS is responsible for extension activity, including strengthening targeted TSCs, Training Schools and seed farms, supporting farmers technically and financially, and allocating capable staffs to the targeted institutions.

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5. Role of CSB counterparts

CSB counterparts who have been trained through the past Indo-Japanese cooperation have enough capability and technical competence and, therefore, they will play a role as experts who will give technical advice/guidance to DOS staff in the Project. Technical transfer will be done from CSB counterparts to the implementing staff of DOS. JICA Experts will support and assist the CSB counterpart.

6. Target TSCs, Training Schools and Grainages

It is agreed that some TSCs would be selected to establish a model functional unit of extension for bivoltine sericulture. The CSB will set up teams consisting of staffs specialized in different fields, and the team will visit the targeted TSCs for technical advice/guidance, and then TSC will give guidance to selected farmers. Since the target TSCs are new for bivoltine sericulture, frequent visit to TSC is required at the initial stage, however, the frequency will be reduced in the course of the Project as TSC staff acquire enough knowledge and skills to teach farmers through technical guidance by CSB counterparts as well as training program. The idea is also shared that unlike the PPPBST, frequency of visit and intensity of support from CSB and Japanese experts would be much reduced in the Project and the DOSs would play a major role instead.

During the discussion, the Indian side reviewed the proposal already submitted to Japan and proposed following institutions to be covered by the Project:

1) TSCs

8 TSCs(hybrid) in Karnataka, 6 in Andhra Pradesh, and 4 in Tamil Nadu respectively were proposed to be covered in the Project. Each TSC is supposed to select 50 farmers every year to start bivoltine sericulture. It is estimated that each TSC will cover 200 farmers during the Project period, and accordingly, total number of farmers would be 3600. To achieve the goal, these TSCs will be specialized in bivoltine, and 10 staffs will be assigned to each TSC in Karnataka and Andhra Pradesh and 7 in Tamil Nadu. In addition, 2 reeling TSCs were proposed in Karnataka;

2) Grainages

Besides 3 grainages of National Silkworm Seed Project (NSSP), 5 grainages in Karnataka, 2 in Andhra Pradesh and 1 in Tamil Nadu were proposed;

3) Basic Seed Farms (BSF)

4 BSF in Karnataka, 1 each in Andhra Pradesh and Tamil Nadu as well as 3 NSSP BSF were proposed; and

4) Training Schools

4 training schools in Karnataka, 1 each in Andhra Pradesh and Tamil Nadu were proposed.

The Team requested Indian side to prepare the detailed paper to investigate the feasibility of the above target. It is agreed that the Indian side will submit papers showing the location, condition, and equipment

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of each institution as well as the capacity of CSB counterparts to support and monitor the above areas by the end of January, 2002. The number of the target institutions will be decided by the time of R/D, and selection will be done after the commencement of the Project in consultation with Japanese experts based on the preparatory survey conducted by DOS and CSB on the basis of a criteria of selection jointly decided.

7. Target Race

It is agreed that CSR2, CSR4, CSR5, CSR18 and CSR19 will be utilized for the Project and entire seed supply for the Project will be met by NSSP.

8. Allocation of Counterpart personnel

The Indian side will continuously assign the necessary number of counterpart personnel to the Project upon the commencement of the Project. It is agreed that the counterpart personnel who had trained during PPPBST will be utilized at both CSB and DOS to the extent possible. Both CSB and DOS also agreed that counterpart personnel assigned for the Project will be retained during the project period except special cases such as promotion.

9. Preparation of the Project

If the necessary documents referred to II. 3 and 6 are provided before the end February, 2002, the R/D would be signed during March, 2002 and the Project would start from July, 2002,

Indian side requested the Team that the expert support may be extended in the period between the end of the PPPBST, March 31, and the commencement of the Project for the preparation of the Project.

III. Administration of the Project

For the purpose of ensuring the smooth Project implementation, the following necessary arrangements will be taken.

1. Project Management

- (1) Ministry of Textile will supervise the Project. Joint Secretary of Ministry of Textile will be the Project Director, who will bear overall responsibility for coordination, monitoring and evaluation of the Project.
- (2) Central Silk Board will have general responsibility for administration and execution of the Project. The Member Secretary of CSB will be appointed as the Project Manager, who will be responsible for administration and implementation of the Project. The head of the Bivoltine Cell of CSB will be the Deputy Project Manager, who will be in charge of day to day activities of the Project and coordinating with the concerned states.
- (3) Directors of CSR&FI, SSDL, NSSP and CSTR will have overall responsibility for the managerial

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and technical matters related to the activities of each function as described in the tentative Plans of Operations.

- (4) Commissioner / Director of Department of Sericulture of the concerned states will have overall responsibility for the managerial and technical matters related to the activities within the states. Bivoltine cells of each state will monitor the project activities in respective state and coordinate with CSB.

The organizational chart of the Project is shown in ANNEX 1.

2. Coordination Mechanism

The following arrangement will be made for coordination of the Project. Coordination mechanisms both at the decision making and operational level will be further strengthen in the course of the Project.

(1) Bivoltine Cell Meeting

CSB Bivoltine Cell will formulate action plan, monitor activities and discuss matters relating to the project implementation including problems and countermeasures and hold/organize coordination meetings when necessary.

(2) Group Meeting

Group meetings will be held according to the areas of the project activities. The following areas need to have regular meetings;

- 1) Group meeting on egg production attended by CSB counterparts in charge of egg production and staff of BSF and grainage;
- 2) Group meeting on Training attended by CSB counterparts in charge of training and staff of Sericulture Training Schools; and
- 3) Group meeting on Extension attended by CSB counterparts in charge of extension and staff of TSC.

(3) Joint Meeting

Joint Meetings will be held before and/or after each crop and attended by staff in charge of CSB and DOS units, CSB counterparts associated with the Project, directors of participating institutions, JICA experts, the heads of bivoltine cells of CSB and DOS. Plan of actions is drafted and progress of implementation is reviewed in the joint meetings.

(4) Quarterly Meeting

Under the leadership of Member Secretary of CSB, the heads of DOS, CSR&TI, NSSP, SSTL, CSTRI, Bivoltine Cells and JICA experts will meet quarterly to review the progress of action and draft action plan for next quarter.

(5) Joint Coordinating Committee

Function and membership of the JCC is shown in ANNEX 2.

IV. Project Cycle Management (PCM) Workshop

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PCM workshop was held on December 14, 2001, at Bangalore to share information and opinion among stakeholders. Reflecting the result from PCM workshop, the Team and Indian authorities concerned discussed the tentative Project Design Matrix (PDM) and Plan of Operations(PO) as shown in ANNEX 3 and 4. The PDM and PO will be reviewed and modified, if necessary, during the first half year of the Project, when the Consultation Study Team from Japan visits India.

V. Master Plan of the Project

Based on the series of discussion, both sides reached an agreement on the following. The details could be modified in the course of future discussions before signing the "R/D", on the basis of which the design of cooperation project will be decided.

1. Title of the Project

The title of the Project will be "the Project for Strengthening Extension System for Bivoltine Sericulture".

2. Purpose of the Project

(1) Overall goal

Enhancing production and quality of bivoltine raw silk and thereby raising the income levels of farmers and reelers.

(2) Project Purpose

Extension system for bivoltine sericulture will be functional.

In other words, the project aims to strengthen extension system including mass production of eggs and training for bivoltine sericulture in three states.

3. Outputs and Activities of the Project

The Project will conduct five main activities as shown in PDM and PO to attain the following outputs.

(1) Action plan for promotion of bivoltine sericulture will be formulated.

Feasible and practical action plan for promotion of bivoltine sericulture (CSR race) will be formulated by each state in consultation with CSB. Based on the results from baseline survey as well as regular monitoring, modification will be made annually to make it practical. In doing so, necessary policy measures such as introduction of cocoon marketing system with quality assessment will also be taken.

(2) Coordination / collaboration mechanism among CSB and DOSs for extension of bivoltine sericulture will be established.

For the smooth implementation of the Project, Bivoltine Cells at CSB and DOSs to monitor and coordinate activities will be established. Bivoltine Cells will also be strengthened during the Project.

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(3) System for mass production of quality seed will be established.

Based on a practical plan for mass production of quality seeds, one-way system and quality control guidelines will be established. CSB will formulate guidance plan and provide technical guidance to BSF staffs, DOS staffs and seed farmers. At the same time, seed production facilities will be strengthened by NSSP and DOS.

(4) DOS staffs will be equipped with necessary skills and knowledge for extension of bivoltine sericulture and training facilities will be improved for bivoltine sericulture.

Based on a master plan, training for trainers' and DOS staff with field oriented curriculum will be conducted by CSR&TI/CSTRI and thereafter DOS will conduct training for farmers / reelers. To achieve this, training curriculum and materials in each field will be devised by CSB institutions while DOS strengthen training facilities.

(5) Extension model for bivoltine sericulture will be established.

A few TSCs will be selected to establish a model extension system. Trained TSC staff will extend technical package of bivoltine sericulture to selected farmers with the support of CSR&TI, while DOS will strengthen TSC. Monitoring and feedback from field activities are reflected in the Action Plan.

4. Sites of the Project

- (1) Central Silk Board, HQ, Bangalore
- (2) Central Sericulture Research & Training Institute, Mysore
- (3) National Silkworm Seed Project, Bangalore
- (4) Silkworm Seed Technological Laboratory, Bangalore
- (5) Central Silk Technological Research Institute, Bangalore
- (6) Department of Sericulture, Karnataka, Bangalore
- (7) Department of Sericulture, Andhra Pradesh, Hyderabad
- (8) Department of Sericulture, Tamil Nadu, Salem

5. Term of Cooperation

Term of the Project is five (5) years from the date of arrival in India of the first Japanese experts.

6. Measures to be taken by both Governments

When the Project is approved, the necessary measures listed below will be taken by the Government concerned.

6-1 Measures to be taken by the Government of Japan

(1) Dispatch of Japanese experts

Long-term experts:

- 1) Chief Advisor

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- 2) Coordinator
- 3) Race maintenance/seed production
- 4) Training
- 5) Extension

Short-term experts will be considered by the Government of Japan based upon request of the Government of India for the smooth implementation of the Project.

- (2) Acceptance of counterpart personnel for training in Japan

Proposed list of counterparts is shown in ANNEX 5.

- (3) Provision of Machinery and Equipment

Necessary machinery, equipment and other materials (hereinafter referred to as "the Equipment") for the Project will be provided according to the budget. So far, the equipment as shown in ANNEX 6 have been requested by the Indian side.

5-2 Measures to be taken by the Government of India

- (1) Provision of land, buildings and facilities

The Government of India will provide:

- 1) Land, buildings and facilities necessary for the Project
- 2) Rooms and space necessary for installation and storage of the equipment
- 3) Office space and necessary facilities for experts
- 4) Electricity, water supply and necessary telecommunication facilities including telephone, facsimile and e-mail services
- 5) Other facilities mutually agreed upon, if necessary

- (2) Assignment of counterpart personnel

Counterpart personnel will be appointed from the organizations concerned at ANNEX 6.

- (3) Assignment of administrative and technical staff

Sufficient number of administrative and technical staff members will be assigned for the smooth implementation of the Project.

- (4) Budget Allocation

The Indian side will secure the budget for the following items.

- 1) Expenses necessary for domestic transportation of the equipment provided through JICA under the Project within India, as well as for installation, operation and maintenance.
- 2) Expenses necessary for customs, duties, internal taxes and other charges imposed on the Equipment provided through JICA under the Project in India.
- 3) Supply or replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the Project, other than the Equipment provided through JICA under the Project.
- 4) Running expenses necessary for the Project, including travel allowance for the counterpart

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personnel.

(5) Others

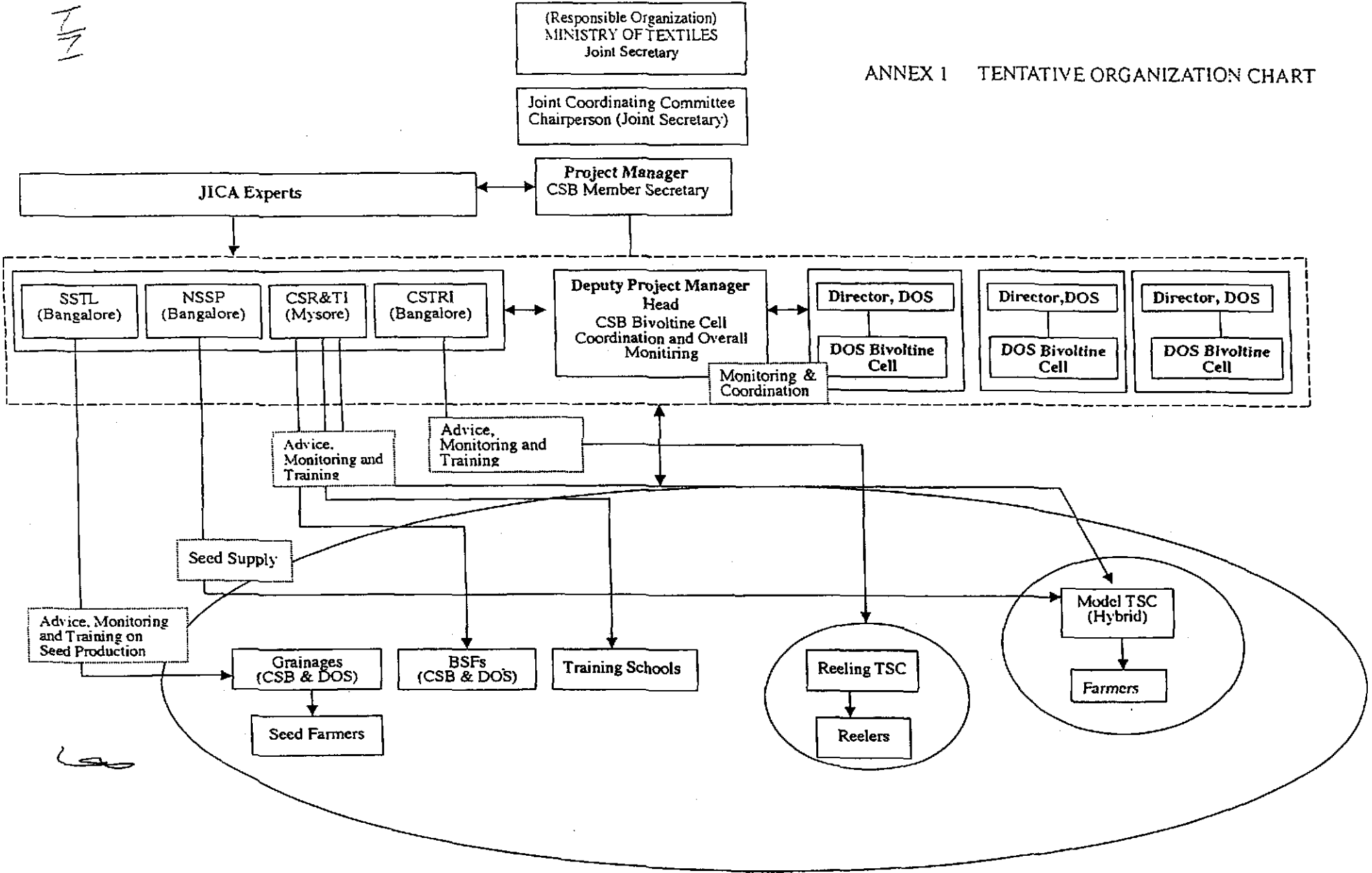
- 1) The Government of India will grant in India privileges, exemptions and benefits to the Japanese experts and their families no less favorable than those accorded to experts of third countries working in India under the Colombo Plan Technical Cooperation Scheme.
- 2) The Government of India will ensure that Equipment provided through the Project will be utilised effectively for the implementation of the Project in consultation with the Japanese experts.
- 3) In accordance with laws and regulations in force in India, the Government of India will take necessary measures to meet:
 - a) Means of transport for the Japanese experts for official travel within India;
 - b) Assistance to find suitably furnished accommodations for the Japanese experts and their families;
 - c) Expenses necessary for the transportation within India of the Equipment as well as for the installation, operation and maintenance thereof;
 - d) Customs duties, internal taxes and any other charges, imposed in India on the Equipment;
 - e) Running expenses necessary for the implementation of the Project.

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ANNEX 1 TENTATIVE ORGANIZATION CHART



For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established whose functions and composition are described as below.

1. Function

- (1) To formulate the Annual Work Plan under the framework of the Record of Discussions.
- (2) To review the overall progress of the technical cooperation programme as well as achievements of the Annual Work Plan of the Project.
- (3) To review those measures taken by the Government of Japan;
 - 1) Dispatch of experts
 - 2) Acceptance of Indian counterpart personnel in Japan
 - 3) Provision of machinery and equipment
- (4) To review those measures taken by the government of India
 - 1) Allocation of necessary budget (including local cost expenditure)
 - 2) Allocation of necessary counterpart personnel
 - 3) Operation and maintenance of machinery and equipment provided by the Government of Japan
- (5) To make recommendations to the respective governments on;
 - 1) Budgetary matters
 - 2) Recruitment and appointment of Indian counterpart personnel
 - 3) Selection and effective utilisation of the machinery and equipment
 - 4) Appropriate dispatch of experts
 - 5) Acceptance of Indian counterpart personnel in Japan
 - 6) Others

2 Composition of the Committee

The Joint Coordinating Committee will be composed by the following members.

(1) Chairperson

Joint Secretary, Ministry of Textile

(2) Indian side

Project Manager (Member Secretary, Central Silk Board)

Deputy Project Manager (Head, Bivoltine Cell, Central Silk Board)

Director, Central Sericulture Research and Training Institute

Director, National Silkworm Seed Project

Director, Silkworm Seed Technology Laboratory

Director, Central Silk Technological Research Institute

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Commissioner / Director, Department of Sericulture, Karnataka

Head, Bivoltine Cell, Department of Sericulture, Karnataka

Commissioner / Director, Department of Sericulture, Andhra Pradesh

Head, Bivoltine Cell, Department of Sericulture, Andhra Pradesh

Commissioner / Director, Department of Sericulture, Tamil Nadu

Head, Bivoltine Cell, Department of Sericulture, Tamil Nadu

Representatives of Department of Economic Affairs, Ministry of Finance

(3) Japanese side

Chief Advisor

Coordinator

Experts

Representatives of JICA India Office

Team concerned dispatched by JICA HQ

(4) Observers

Official(s) of the Embassy of Japan

Persons who are nominated by the Chairperson

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Tentative Project Design Matrix

Dec. 21, 2001

Project Title : The Project for Strengthening Extension System for Bivoltine Sericulture (tentative title) Target Group : bivoltine sericulture farmers in target areas

Target Areas: Karnataka, Andhra Pradesh, Tamil Nadu

Terms of Cooperation : July, 2002 ~ June, 2007

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
<p>[Overall Goal] Enhancing production and quality of bivoltine raw silk and thereby raising the income levels of farmers and reelers.</p>	<ol style="list-style-type: none"> 1 Bivoltine sericulture farmers in target areas will increase income from sericulture. 2 The production of quality raw silk (above 2A level) in target areas will be increased. 	<ul style="list-style-type: none"> • Reports/documents of CSB/DOS • Baseline Survey • Monitoring Survey on farmers and reelers • Data from cocoon market 	<ul style="list-style-type: none"> • Policy of CSB and DOS for promoting bivoltine sericulture will not be changed.
<p>[Project Purpose] Extension system for bivoltine sericulture will be functional.</p>	<ol style="list-style-type: none"> 1 The number of bivoltine sericulture farmers will be increased. 2 The production of bivoltine seed cocoon in target areas will be increased. 3 The number of bivoltine cocoon transaction in cocoon markets in target states will be increased. 4 Production and supply of quality bivoltine seed will be increased. 5 Condition of facilities will be improved for bivoltine sericulture. 	<ul style="list-style-type: none"> • Baseline Survey • Reports of CSB/DOS 	<ul style="list-style-type: none"> • Price of quality bivoltine raw silk will not drastically fall. • Demand for quality bivoltine raw silk will not decrease.
<p>[Outputs]</p> <ol style="list-style-type: none"> 1 Action plan for promotion of bivoltine sericulture will be formulated. 2 Coordination/collaboration mechanism among CSB and DOSs for extension of bivoltine sericulture will be established. 3 System for mass production of quality seed will be established. 4 DOS staff will be equipped with necessary skills and knowledge for extension of bivoltine sericulture and training facilities will be improved for bivoltine sericulture. 5 Extension model for bivoltine sericulture will be established. 	<ol style="list-style-type: none"> 1-1 CSB and DOS will jointly formulate action plan with necessary budget allocation. 1-2 Facility development/improvement plan for extension of bivoltine sericulture will be formulated with necessary budget allocation. 2-1 Information/data regarding bivoltine sericulture will be compiled at Bivoltine Cells in each state. 2-2 CSB and DOS will share plan and challenges. 3-1 Quality control guidelines will be introduced at P3 level and below. 3-2 Defective cocoon rate will be decreased at BSFs. 3-3 Mixing of different races and sex will not occur. 3-4 Pupation rate will be over 90% at BSFs. 3-5 Recovery rate of seed production will be over 25% at BSFs (egg recovery). 3-6 Seed farmers will increase the production of seed cocoon. 	<ul style="list-style-type: none"> • Baseline survey • Quarterly reports • Reports/documents of CSB/DOS • Monitoring Survey on farmers and reelers • Minutes of meetings • Annual reports of CSB/DOS 	<ul style="list-style-type: none"> • New disease will not breakout.

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	<p>3-7 Training program will be conducted for BSF/grainage staff and seed farmers</p> <p>4-1 The number of TSC and STS staff trained by CSR&TI will be increased.</p> <p>4-7 CSR&TI and DOS will formulate field oriented training curriculum/materials.</p> <p>4-8 Utilization of improved training manuals.</p> <p>4-9 The number of DOS staff trained at Sericulture Training School will be increased.</p> <p>4-10 Farmers' confidence on trained extension staff will be improved.</p> <p>4-11 The number of facilities equipped for bivoltine sericulture training will be increased.</p> <p>5-1 Extension manuals in local languages will be utilized.</p> <p>5-2 Cooperative activities (i.e. management of Chawki rearing house) will be conducted in targeted areas.</p> <p>5-3 Sericulture related tools such as rotary moutage will be locally produced.</p>		
<p>[Activities]</p> <p>1. Formulation of Action Plan for Promotion of Bivoltine Sericulture</p> <p>1-1 Baseline Survey (survey on target farmers, current extension system, current extension plan, and government policy to support small sericulture farmers and to strengthen farmers' group, etc.)</p> <p>1-2 Promotion of full introduction of cocoon marketing system with quality assessment</p> <p>1-3 To examine the needs for modification on current extension system, extension plan, government policy to support small sericulture farmers.</p> <p>1-4 Action Plan for promotion will be formulated with close coordination of CSB and DOS.</p> <p>2. Establishment of Coordination/Collaboration Mechanism among CSB and DOSs</p> <p>2-1 To formulate plan of activities for Bivoltine Cells</p> <p>2-2 To monitor project activities through regular joint meetings</p>	<p>[Inputs] (Japanese side)</p> <p>1. Dispatch of long-term experts Chief Advisor Coordinator Seed Production Training Extension</p> <p>2. Dispatch of short-term experts</p> <p>3. Acceptance of Indian personnel for training in Japan</p> <p>4. Provision of machinery and equipment Training tools Others</p>		<ul style="list-style-type: none"> • Counterpart personnel of the Project will not be shifted. • Trained CSB/DOS staff will be fully utilized. • Law and order in the target areas will not get worse. <p>(Pre-condition)</p> <ul style="list-style-type: none"> • Bivoltine cells will be established in CSB and target states. • Memorandum of Understanding among CSB and DOSs on coordination/collaboration mechanism for the Project will be signed. • Counterpart personnel of CSB and DOS who had trained during PPPBST will be utilized to the extent possible.

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<p>3 Strengthening of System of Seed Production</p> <p>3-1 To formulate plan for mass production of quality seed</p> <p>3-2 To establish one-way system at CSB and DOS</p> <p>3-3 To establish quality control guidelines and checkpoints at P3 level and below</p> <p>3-4 To formulate guidance plan to BSF staff, DOS staff and seed farmers</p> <p>3-5 Strengthening of seed production facilities</p> <p>4 Strengthening of Training</p> <p>4-1 To formulate training master plan for bivoltine sericulture</p> <p>4-2 To formulate facility development plan</p> <p>4-3 Strengthening of training facilities</p> <p>4-4 To revise training curriculum to be field oriented</p> <p>4-5 To conduct trainers' training</p> <p>4-6 To conduct farmers' training (by DOS)</p> <p>4-7 To devise training curriculum and materials in each field</p> <p>4-7-1 Silkworm race maintenance/ seed production</p> <p>4-7-2 Mulberry cultivation</p> <p>4-7-3 Silkworm rearing/ disease control</p> <p>4-7-4 Reeling</p> <p>4-8 To conduct training course for extension staff</p> <p>5 Establishment of Model for Bivoltine Sericulture Extension</p> <p>5-1 To select target TSCs</p> <p>5-2 To plan and implement model extension activities in the target areas</p> <p>5-3 To tune up technical package developed by PPPBST</p> <p>5-4 To prepare method of monitoring and evaluation for extension activities</p> <p>5-5 Strengthening of TSC</p>	<p>(Indian side)</p> <ol style="list-style-type: none">1. Assignment of counterpart personnel Project Manager Deputy Project Manager Director of CSB Institutions and DOSs Subject Matter Specialist (in necessary field)2. Administrative personnel3. Land, buildings and facilities necessary for the Project4. Budgetary allocation for local costs	
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in of operations (Tentative)

Activities	Outputs	Schedule (Japanese FY)					Under Responsibility of	Mainly implemented by	supported by
		2002	2003	2004	2005	2006			
Formulation of Action Plan for Promotion of Bivoltine culture							CSB, DOS	CSB BC, DOS	EX(L)(E)
Baseline Survey (on target farmers, current extension em, current extension plan, and government policy to port small sericulture farmers and to strengthen farmers' ip, etc.)		■	■	■	■	■		CSB BC, DOS BC, CSR&TI	EX(L)(E)
Promotion of full introduction of cocoon marketing em with quality assessment		■	■	■	■	■		DOS	EX(L), CSTRI
To examine the needs for modification on current nsion system, current extension plan, government policy mall sericulture farmers and to strengthen farmers'		■	■	■	■	■		CSB BC, DOS BC, CSR&TI	EX(L)(E)
Action plan for promotion will be formulated with e coordination of CSB and DOSs		■	■	■	■	■		CSB BC, DOS BC, CSR&TI	EX(L)(E)
Establishment of Coordination Collaboration hanizm among CSB and DOSs							CSB, DOS	CSB BC, DOS BC	EX(L)(C)
To formulate plan of activities for Bivoltine Cells		■						CSB BC, DOS BC	EX(L)(C)
To monitor project acuvities through regular joint ings		■	■	■	■	■		CSB BC, DOS BC	EX(L)(C)
Strengthening of System of Seed Production							NSSP	NSSP, DOS	EX(S)
To formulate plan for mass production of quality seed		■	■	■	■	■		NSSP, DOS	EX(S)
To establish one-way system at CSB and DOS		■	■	■	■	■		NSSP, DOS	EX(S), SSTL, CSR&TI
To establish quality control control guidelines and kpoints at P3 level and below		■	■	■	■	■		NSSP, DOS	EX(S), SSTL, CSR&TI
To formulate guidance plan to BST staff, DOS staff seed farmers		■	■	■	■	■		NSSP, DOS, SSTL, CSR&TI	EX(S)
Strengthening of seed production facilities		■	■	■	■	■		NSSP, DOS	
Strengthening of Training							CSR&TI	CSR&TI	EX(T)
To formulate Training Master Plan for bivoltine ulture		■	■	■	■	■		CSR&TI, DOS	EX(T)
To formulate facility development plan		■	■	■	■	■		DOS	EX(T)
Strengthening of training facilities (by DOS)		■	■	■	■	■		DOS	
To revise training curriculum to be field oriented		■	■	■	■	■		CSR&TI, DOS	EX(T)
To conduct trainers' training		■	■	■	■	■		CSR&TI	EX(T)
To conducts farmers' training (by DOS)		■	■	■	■	■	DOS		

To devise training curriculum and materials in each																				CSR&TI CSR&TI, SSSL, NSSP CSR&TI CSR&TI CSTRI CSR&TI	EX(T) EX(S) EX(T) EX(T) EX(T)
-1 Silkworm Race Maintenance Seed Production																					
-2 Murberry cultivation																					
-3 Silkworm rearing Disease Control																					
-4 Reeling																					
To conducts training course for extension staff																					
Establishment of Model for Bivoltine Sericulture Extension																			CSB, DOS	CSB BC, DOS BC, CSR&TI CSB BC, DOS BC, CSR&TI CSB BC, DOS BC, CSR&TI CSB BC, DOS BC, CSR&TI CSR&TI, DOS DOS	EX(L)(E) EX(L)(E) EX(L)(E) EX(L)(E) EX(L)(E)
To select target TSC's																					
To plan and implement model extension activities in the targeted areas																					
To fine up technical package developed by PPPBST																					
To prepare method of monitoring and evaluation for extension activities																					
Strengthening of TSC (DOS)																					



ANNEX 5 Proposed List of Indian Counterpart and Administrative Personnel

1. Project manager
2. Deputy Project Manager of CSB
3. Coordinator of CSR&TI
4. Coordinator of SSSL
5. Coordinator of CSTR
6. Coordinator of NSSP
7. Coordinator of the concerned States, i.e. DOS, Karnataka, Andhra Pradesh, and Tamil Nadu

Counterpart Personnel in the Following Fields

1. Mulberry Cultivation
2. Maintenance of Silkworm Race
3. Silkworm Seed Production and Management
4. Silkworm Rearing
5. Silk Reeling
6. Silkworm Disease Control
7. Sericulture Extension
8. Other necessary fields mutually agreed upon
9. Training Schools
10. Extension Centers (TSCs)
11. Grainages
12. Basic Seed Farms

Administrative Personnel

1. Clerical and Administrative Staff
2. Secretaries
3. Technical Assistants
4. Drivers
5. Other necessary supporting staff

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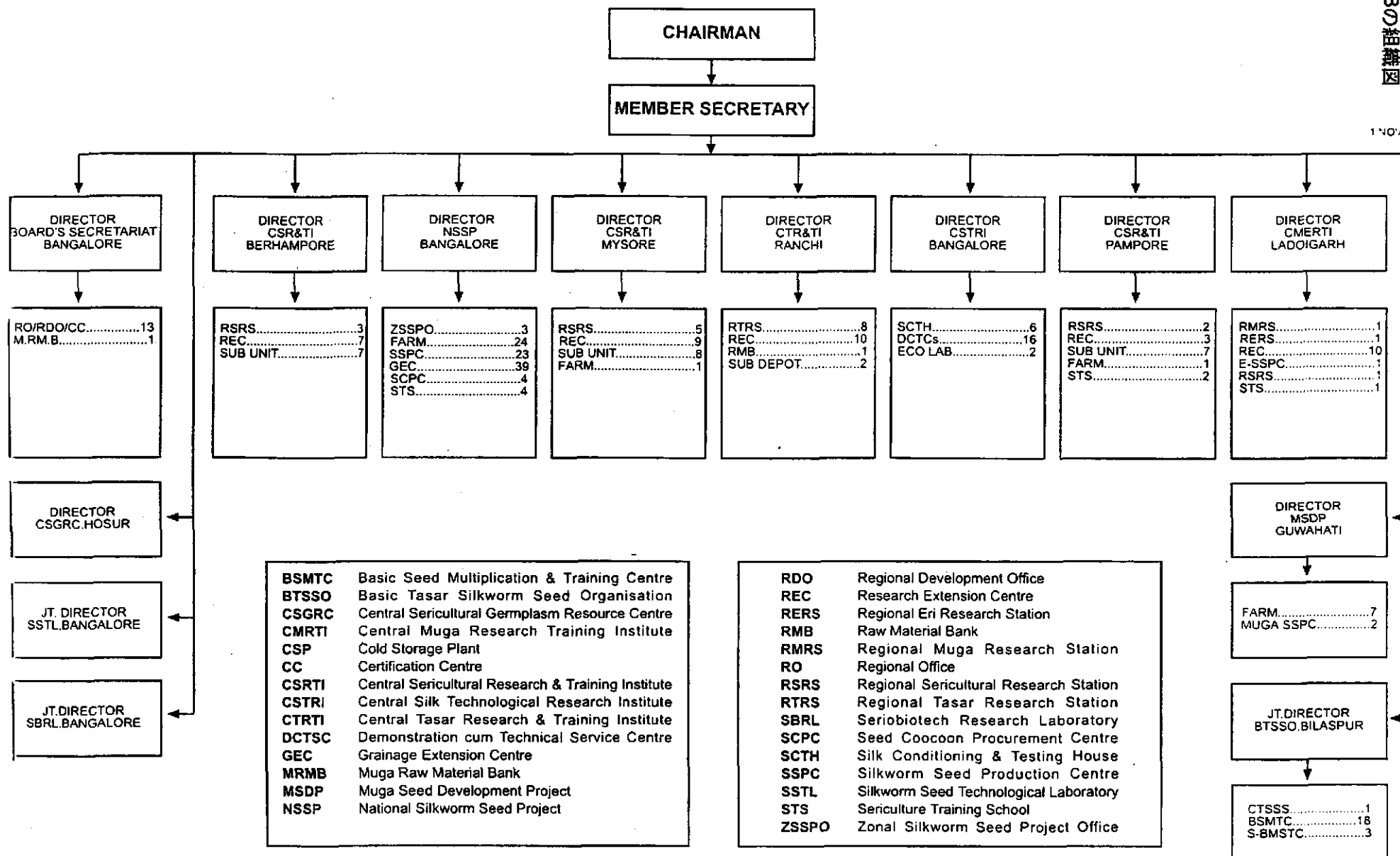
LIST OF EQUIPMENTS REQUIRED FOR FIRST YEAR

IN EQUIPMENT-1 PD PHASE 3, 14

#	Name of Equipment	Total nos. required	Nos. required (1st year)	NECESSITY/JUSTIFICATION	REMARKS
1	Heater with Thermostart	204	80	For organising chawki rearing and Production of loose eggs	CRC-72, GRAINAGE-4, NSSP-4
2	Humidifier with Humidistart	204	80	-do-	CRC-72, GRAINAGE-4, NSSP-4
3	Power Sprayer	88	31	-do-	CRC-18, GRAINAGE-3, NSSP-5, CSR&TI-5
4	Mask	172	62	-do-	CRC-36, GRAINAGE-16, CSR&TI-10
5	Generator	79	27	-do-	CRC-18, GRAINAGE-6, CSR&TI-1, NSSP-2
6	Room Cooler	69	23	-do-	-do-
7	Rotary Mountage	90000	45000	For good quality cocoon yield at farmers level	TSC-45000
8	O.H.P	9	5	For providing training to DOS staff and selected farmers	STS-3, CSR&TI-1, CSTRI-1
9	L.C.D. Projector	4	2	-do-	SSTL-I, CSTRI-1
10	T.V.	9	4	-do-	STS-3, CSR&TI-1
11	VCR	9	4	-do-	STS-3, CSR&TI-1
12	Vehicle (Jeep)	28	12	Staff mobility for Extension	TSC-8, CSR&TI-2, CSTRI-1, SSTL-1
13	Computer	28	8	For database	TSC-8
14	Motorcycle	40	10	Staff mobility for Extension	TSC-10
15	Incubation chambers	10	5	Incubation of silkworm seed	GRAINGAE-2, NSSP-3
16	Cold storage with stablizer - 5 chambers	2	-	-	-
17	Phase Contrast Binocular microscope	20	10	For testing of Disease and Organising Trg.	STS-5, GRAINAGE-5
18	R ₂₃ centrifuge	20	10	-do-	GRAINAGE-8, NSSP-2
19	Acid treatment units (Celluloid) Loose eggs	24	8	For loose egg production	GRAINGE-4, NSSP-4
20	Loose egg weighing machine	10	5	-do-	GRAINGAE-2, NSSP-3

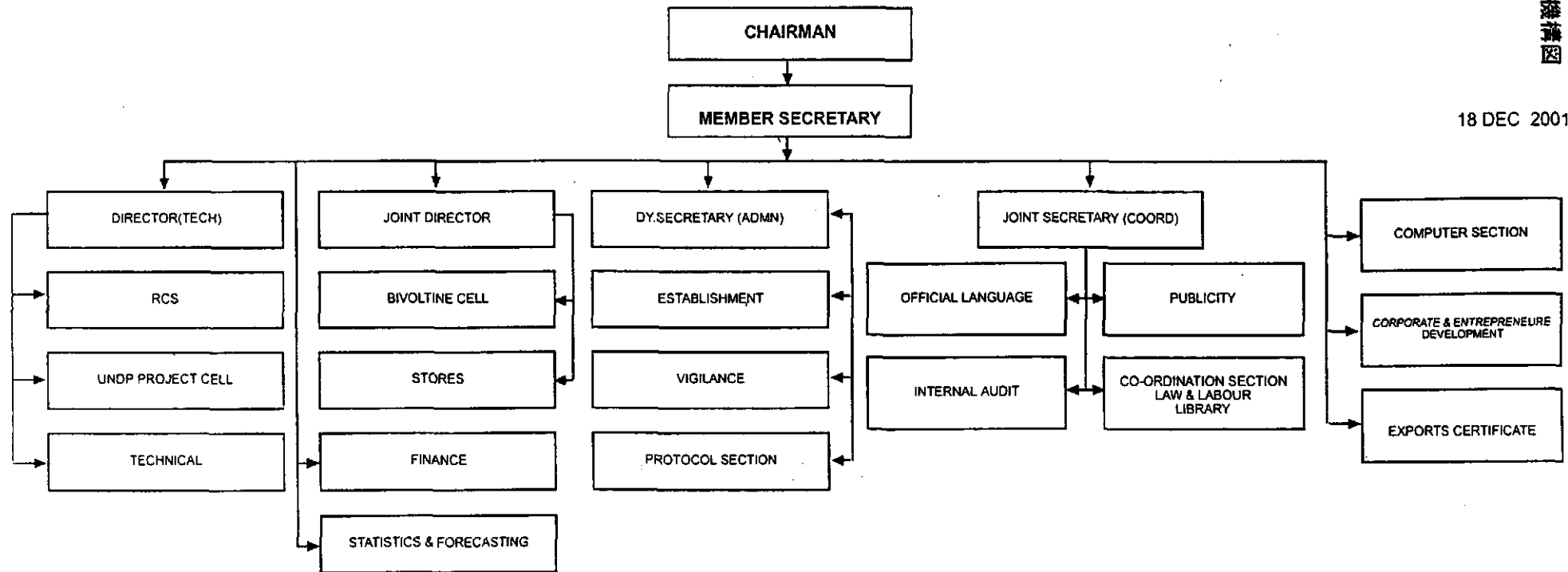
#	Name of Equipment	Total nos. required	Nos. required (1st years)	NECESSITY/JUSTIFICATION	REMARKS
21	Loose egg preparation equipment	20 sets	5 sets	-do-	GRAINAGE-2, NSSP-3
	i) Loose egg washing tray				
	ii) Loose eggs drying chamber				
	iii) Winnowing machine				
	iv) Loose egg cases				
	v) Loose egg incubation frames/brushing frames				
	vi) Loose egg preparation starch coated sheets				
22	Cocoon cutting machine	10	4	-do-	GRAINAGE-2, NSSP-2
23	Cocoon deflosing machine	10	4	-do-	GRAINAGE-2, NSSP-2

ORGANISATION CHART OF CENTRAL SILK BOARD



18 DEC 2001

ORGANISATION CHART OF BOARD'S SECRETARIAT, B,LORE



II. Details of DOS's Targeted Technical Service Centres(TSC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Bevoor (Bangalore Dist)	Commercial area	SEO-1 SI - 2, SD - 2 SO-1 D Group - 2 DW - 4 Total 12	All Technical staff have undergone refresher course which deals specially in Bivoltine Technology (Staff training details enclosed in booklet)	5.00 Lakhs	828.79 31.01	2716 65	BV Pure - 350dfls, 118Kg, 34Kg(Ave.Yld), CSR - 39893dfls, 15612Kg, 46Kg(Ave.Yld) NP2 - 6950dfls, 4038Kg, 38Kg(Ave.Yld)	TOT Training for 7 Days (15men and 10 women) 10 Days training (50 women) Field days - 11	3	GSP - Channarayana	Irrigated	All Disinfection materials and Equipments available	Channarayana - 10-12 KMS Ramanagara - 20 KMS
Bangalore (Kolar Dist)	Commercial area	SEO-1 SI - 1, SD - 2, SSO - 2 SSDA - 2 D Group - 3 DW - 6 Driver - 1 Total 18	All Technical staff have undergone refresher course which deals specially in Bivoltine Technology (Staff training details enclosed in booklet)	14.09 Lakhs 112.37 Lakhs	1114.70 113.37	2935 80	CSR - 78720 dfls, 43.60Kg(Ave. Yld)	10 Days TOT Training for 50 Women Farmers Non traditional area farmers training for 20 Members	5	2	Irrigated	All Disinfection materials and Equipments available with one Jeep and Telephone facility (No.58455)	Kolar - 20 KMS GSP - Near to TSC
Chikkana yalahalli (Channarayana)	Commercial area	SEO-1 SI - 1, SD - 3 SO - 1 Total 7	All Technical staff have undergone refresher course which deals specially in Bivoltine Technology (Staff training details enclosed in booklet)	4.00 Lakhs	285.00 26.10	451 55 24	BV Pure - 15791 dfls, 9663Kg, 49,00Kg(Ave.Yld) CSR - 27550 dfls, 131.32Kg, 52,00Kg(Ave.Yld) NP2 - 5700dfls, 3561Kg, 43.70Kg (Ave.Yld)				Irrigated	All Disinfection materials and Equipments available	
A Holavanahalli (Yankur)	Commercial area	SEO-1 SI - 1, SD - 3, SSO - 1, D Group - 11 Total 17	All Technical staff have undergone refresher course which deals specially in Bivoltine Technology (Staff training details enclosed in booklet)	4.00 Lakhs	1162 88.20	1744 35 60	BV, Pure - 14185dfls, 7690Kg, 36.7Kg(Ave.Yld), CSR - 69000dfls, 28569Kg, 50.9Kg(Ave.Yld) NP2 - 8800dfls, 4227Kg, 45.3Kg(Ave.Yld)				Irrigated	All Disinfection materials and Equipments available	

5. Tipta (Mangaluru)	Commercial area	SRO-1 SI-1 SD-3 SSO-1 D group-1 Driver-1 Sds-1 SSO-1	All Technical staff have undergone refresher course which deals specially in Bivotline Technology (Staff training details enclosed in booklet)	14.0 lakhs	2383.0 MS-456.0 S13-1.0 S36-1.0 V1- 10.0	3378/30	20000 dft. Avg. yield-45kgs/ 100 dft.	10days TOT training for women 5days training for men.	2	Nil	Irrigated	All Disinfection materials and Equipments available. Jeep available for mobility. Audio visual aids available.	GCM- Nanjangud-10km. Grainage- Thandavapura-13 kms.
		Total 10											
6. Koppa (Mangaluru)	Commercial area	SRO-1 SI-1 SD-5 SSDA-3 D.Group-5 DW-1	All Technical staff have undergone refresher course which deals specially in Bivotline Technology (Staff training details enclosed in booklet)	2.0 lakhs	760.69 83.03	2945 100	55kgs/100dft avg. yield. Rate Rs.200/kg CSR - 1 lakh dft./year	10days TOT training for women - 30 5days training for men -18 Farmer to farmer training for one month.	5	nil	irrigated	All Disinfection materials and Equipments available. Jeep available for mobility.	GCM- Rannagar-45km. Grainage Maddur-20km Mandya-40km.
		Total 16											
7. Thoresettahalli (Mangaluru)	Commercial area	SRO-1 SI-1 SD-5 SSDA-1 D group-3 Driver-1	All Technical staff have undergone refresher course which deals specially in Bivotline Technology (Staff training details enclosed in booklet)	12 lakhs	1274.48 MS-1176.12 S36-51.31 V1-47.08	5169/120	CSR-1 lakh dft. 55-60kgs/100dft avg.yield Rate - Rs.200=00	10days TOT training for women - 30 5days training for men -18 Farmer to farmer training for one month.	4	14	irrigated	All Disinfection materials and Equipments available. Jeep available for mobility	GCM- Rannagar-45km. Grainage Maddur-20km Mandya-40km.
		Total 12											
8. Kargate Ching (Mangaluru)	Commercial area	SI-1 SD-4 SO-3 D group-1	All Technical staff have undergone refresher course which deals specially in Bivotline Technology (Staff training details enclosed in booklet)	6.70 lakhs	815.11 Irrigated-422.51 Rainfed 392.40 Details enclosed.	1154	CSR-45 kgs/100 dft avg. yield.	10days TOT training for women 5days training for men -	2	1	Irrigated and rainfed	All Disinfection materials and Equipments available.	GCM- Kollegala -15 kms Grainage- Kannagere
		Total 9											

77	Tyagar Mysore	Com muni al area	SBO-1 SI-1 SD-3 SSO-1 D group-1 Driver-1 Sde-1 SSO-1	All Technical staff have undergone refresher course which deals specially in Evolvise Technology (Staff training details enclosed in booklet)	14.0 lakhs	2383.0 M5-456.0 S13-1.0 S36-1.0 V1-10.0	3378/30	20000 dfls. Avg. yield-45kgs/ 100 dfls.	10days TOT training for women 5days training for men.	2	Nil	Irrigated	All Disinfection materials and Equipments available. Jeep available for mobility. Audio visual aids available.	GCM- Nanjangud- 10km. Grainage- Thandavapura- 13 kms.
1	Simoga	Seed area	NOT AVAILABLE											
13	Hasan	Seed area	ADS-1 SI-3 SD-5 MRE-3	All Technical staff have undergone refresher course which deals specially in Evolvise Technology (Staff training details enclosed in booklet)	62 lakhs	201/39	449/424	NB4D2-60Kgs CSR-45 kgs	10 days women training at village level 6days men and women training at STS. Farmer to farmer training-1 month.	4	Nil	Irrigated- 422.51 Rainfed- 392.6	All Disinfection materials and Equipments available. Jeep available for mobility. Audio visual aids available	GCM-Hasan Grainage- Hasan
1	Ramesha Mn	Reedi ng area	SBO-1 SI-2 SO-2 D group-6	All Technical staff have undergone refresher course which deals specially in Evolvise Technology (Staff training details enclosed in booklet)	7.0lakhs	Charaka- 1205 Filarum- 1312 M.E.-30	Charaka-1205 Filarum-1312 M.E.-30	Rendima-9-10.5	One month training at STS. Reeder to reeder training for 1 month. Field days and group discussions are also conducted.	nil	nil	NA	Jeep available for mobility. Audio visual aids available	Silk exchange - Bangalore. GCM- Rameshgar.
14	Siddar ghatta	Reedi ng area	SBO-1 SI-1 SO-1 D group-3	All Technical staff have undergone refresher course which deals specially in Evolvise Technology (Staff training details enclosed in booklet)	6.72 lakhs	Charaka- 1487 Filarum- 1716 M.E.-16	Charaka-1487 Filarum-1716 M.E.-16	Rendima-8.75-8.9.	Reeder to reeder training for one month.	Nil	Nil	NA	Audio visual aids available.	Silk exchange - Bangalore. GCM- Siddalghatta.

III. DETAILS OF DDS'S Targeted Sericulture Training Schools(SIS)

TRAINING SCHOOL

	No. of staff(position wise)	No. of Teacher	Bivoltine related trainings which each staff has	Budget(this year's & coming year's respectively)	Mulberry field owned (Acres)total and new varieties	Covering Farmers	Training/workshop Field visit/Meeting Programmes for staff	Training/workshop Field visit/Meeting Programmes for farmers	Main Equipments And Facilities Including	Remarks
Hassan	Principal/ DDS - 1 ADS - 1 SI - 1 SUP - 1 TYP - 1 DRI - 1 COOK - 1 SO(Supn)- 1	DDS - 1 ADS - 1	Enclosed	4.30 lakhs excluding salary	2.75 Total (acres) 2.50 V ₁ 0.25 S ₃₄	-	-	Common Curriculum Details enclosed	Enclosed	
K.R.Pet	Principal/ DDS - 1	DDS - 1 ADS - 2	No	-	0.22 Total/6 acs	-	-	Common Curriculum Details enclosed	Enclosed	
Channapatna	Principal/ DDS - 1 ADS - 5 SEO - 1 GROUP C - 25 GROUP D - 12	DDS - 1 ADS - 3 SEO - 1 SSI - 2 SI - 1	SI - Chawki Rearing Trg for 10 days at SSTL, Kodathi	40.66 lakhs	1.25 hectares M ₅ - 0.40 S ₁₃ - 0.03 S ₃₆ - 0.09 S ₃₄ - 0.40 V ₁ - 0.13 Others - 0.20	-	-	Common Curriculum Details enclosed	Enclosed	
Kuderu	Principal/ DDS - 1 ADS - 4 GROUP C - 6 GROUP D - 1	Principal/ DDS - 1 ADS - 4 SI - 2			3.19 Acres M ₅ - 1.10 S ₁₃ - 0.22 S ₃₆ - 0.18 S ₃₄ - 0.20 V ₁ - 0.27 DD - 0.02	-	-	Common Curriculum Details enclosed	Enclosed	

V. Details of DOS's Targeted Bivoltine BSF and Grainages

BSF	Category	No. of staff(Position wise)	Bivoltine related training which each staff has got (who,when,how many days what,where,which institute)	Extent of Mulberry	Budget (This year's and coming years respectively)	Using Bi-voltine Races	Amount of Brushed (Dfls)	Times of Rearing	Covering Farmers (Current figure and also numerical target of the project)	Main Equipments And Facilities including transportation, communication and computer etc.	Remarks
1. Kumbarahalli ↑ 美和資料 二二五七号	Govt Silk Farm	SEO-1 SI-2 SD-2 SO-1 P/W-2	All have undergone training under PPPBST for Chawki rearing and Race Maintainance.	20.00 Acre M5-1.26 S13-0.07 S36-0/03 S34-0.02 V1-0.04	9.0	CSR	40 Dfls every month (6 months)	6	-	Shoot rearing stands Chawki rearing equipments Heater Mountages All other rearing equipments	Borewells 500 ga/hr.
2. Chikkonahalli	Govt Silk Farm	SI-1 SD-1 D Group-15	Enclosed in Booklet	4.27 Acre M5-3.10 S36-0.10 V1-0.15 S13-0.03	8.00 Lakhs	CSR	100 Dfls for 6 months every year	July To January		Enclosed	Farm has been developed under JICA Programme for Training purpose.

3. Byraganah alli	Govt. Silk Farm	SI-1 SD-2 SO-1 D Group -1 DW-1	Enclosed in Booklet	12.00 Acre RF IRR M5-0.56 0.40 S13-0.04 S36-Nil 0.10 VI-Nil 0.10 Total 0.60	3.00 Lakhs	CSR	10,000 DfIs Chawki Reared	August To February	-	Enclosed	
4. Kaggundi	Govt. Silk Farm	SI-2 SD-2 SO-Nil D Group - 1 S.N.4 D.W. - 6	Enclosed in Booklet	49.24 Acre M5 - 0.60 VI - 0.10 S36-0.40 S30 - 0.10 S34-0.03 MR2-0.10 RFS17.5-0.10 Total 1.43	8.75 Lakhs	CSR	40 DfIs every month for (6 months)	July to January	-	Enclosed	
1. Thandavapu ra (Mysore)	Grain- age	ADS-1 SEO-1 SI-2 SD-2 SO-3 GM-II -1 FDA-1 PEON-1 Sup. room-14 DW-2 Total 28	Enclosed in Booklet		25.00 Lakhs	CSR	-	-	-	Enclosed	

2.Kolar (Kolar)	Grain- age	ADS-1 SI-2 SD-2 SO-3 SDA-2 D Group-23 Total 33	Enclosed in Booklet		-	CSR NB4D2 NP2KS O1 NTCM & CTM	-	-	-	Enclosed	
3. Chintamani (Kolar)	Grain- age	ADS-1 SI-1 SD-2 SO-1 Sup.Num-15 Total 20	Enclosed in Booklet			CSR NB4D2	5.00 Lakhs per year				
4.Tumkur (Tumkur)	Grain- age	DDS-1 ADS-1 SI-2 SD-4 SO-4 FDA-1 SDA-1 Typist-1 Driver-1 P/W - 4 S.N.-9 D Group -5 D.W. - 6 Total 60	Enclosed in Booklet		PD Account	NB4D2 CSR NP2KS O1 NTCM & CTM	2.00 Lakhs Dfis per month	-	-	Enclosed	
5. Mandya	Grain- age	DDS-1 SI-1 SD-5 SO-1 GM-II-1 FDA-1 SDA-1 Driver-1 D group - 14 S.N.-9 Total 35	Enclosed in Booklet	-	PD Account	CSR NB4D2	3 Lakhs Dfis per month	-	-	Enclosed	

2. Details of DOS 's Targeted Technical Service Centre (TSC)										
1	2	Bivoltine related trainings which each staff has got (who, when, how many days, what, where, which institute)					8	Mulberry field (Acres) Total and new variety's respectively		11
		Name & Desig.	Period of Trg.	Duration of Trg.	Course	Name of the Institute		Mulb. Variety	Extent.	
6.Palamaner.1	AIS- 1 FF - 2 OP - 2 FTCW-2	1.V.Gurumurthy AIS	-	-	-	-	Rs.6.38 lakhs for 2001-02.	V1	140.00	Total Farmers: 3980
		2.M.Chandrakumar FF	2-5-01 to 31-5-01	30 days	Silkworm Rearing	CSRTI, Mysore	Rs.31.9 lakhs for Project period	S36	16.00	<u>Biv.Farmers:</u>
		-do-	6-4-01 to 13-4-01	7 days	Chawki Rearing	CRC G.S.Palli Kuppam		M5	2020.00	Kalpatharuvu: 109
		-do-	7-6-00 to 9-6-00	3 days	New Technology	RTC Hindupur		Mixed	1773.00	CSR : 70
		3.Munirathman, FF	7-4-01 to 25-5-01	45 days	Mulb. Cultivation & SW Rearing	At JICA farmer Kuppam		Total:	3949.00	
		-do-	22 nd to 24 th Nov.2000	3 days	New Technology	RTC Hindupur				
		4.Adeppa FTCW	7-4-01 to 21-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam				
		5.Krishnaiah FTCW	7-4-01 to 25-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam				
		6.B.Satyanarayana FTCW	7-4-01 to 25-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam				
		7.B.Musthafa Saheb FTCW	7-4-01 to 25-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam				

(Contd...5)

1	2	3	4	5	6	7	8	9	10	11
7.Palamaner.2	ALS- 1 FF - 2 OP - 2 FTCW-2	1.R. Raghunatha Reddy AIS	-	-	-	-	Rs.6.38 lakhs for 2001-02.	V1	132.00	Total Farmers:5200
		2.M.V. Srinivasaiah FF	12 th to 14 th Dec 2000.	3 days	Orientation Trg.	NIRD Hyderabad	Rs.31.9 lakhs for Project period	S36	9.00	<u>Biv.Farmers: 99</u>
		3.P.Sriramaiah, FF	18-6-01 to 17-7-01	30 days	Pest & Disease Control	CSRTI Mysore		M5	2800.00	Kalpatharuvu: 45
		-do-	19-12-00 to 21-12-00	3 days	New Technology	RTC Hindupur		Mixed	1803.00	CSR : 54
		4.B.Nagappa. OP	7-4-01 to 251-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam.		Total:	4744.00	
		-do-	23 rd to 25 th Jan 2000	3 days	New Technology	RTC Hindupur				
		5 M.,Eswaraiah OP	-	-	-	-				
		6.V.Narayana FTCW	7-4-01 to 251-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam				
		7.D.Sudhakar Rao FTCW	7-4-01 to 251-5-01	45 days	Mulb. & SW Rearing	At JICA farmer Kuppam				

(contd -- 5)

1	2	3	4	5	6	7	8	9	10	11
8.Madanapa lli.1	AIS- 1 FF - 2 OP - 2 FTCW-2	1.K.Umapathy AIS	1994-95	15 days	Bivoltine Rearing	CSRTI. Mysore.	Rs.6.38 lakhs for 2001-02.	V1	50.00	Total Farmers: 2400
		2.M.Parandama Gowdu FF	2-7-01 to 11-7-01	10 days	Mulb. Cultivation	-do-	Rs.31.9 lakhs for Project period	S36	25.00	<u>Biv.Farmer s: 200</u>
		3.K.Krishnappa FF	18-6-01 to 1-07-01	30 days	Bivoltine Rearing	-do-		M5	1020.00	<u>Kalpatharu vu: &</u>
		4.P.C.Mallaiah OP	7-6-01 to 15-6-01	7 days	Chawki Rearing	CRC GS.Palli		Mixed	1477.00	CSR
		-do-	2-7-01 to 11-7-01	10 days	Mulberry Cultivation	Kuppam. CSRTI. Mysore.		Total:	2572.00	
		5.B.Jayanna. OP	6-4-01 to 21-5-01	45 days	Mulb & SW Rearing	At JICA Farmer Nakkana palli				
		6.Rajanna FTCW	30-7-01 to 3-8-01	5 days	Soil Fertility	CSRTI. Mysore.				
7.N.Seshadri Sharma FTCW	6-4-01 to 21-5-01	45 days	Mulb & SW Rearing	At JICA Farmer Nakkana palli						

(Contd: 5)

Result of the production of each bivoltine race this year (name of Races, distributed dfls, Production of Cocoons Kgs. Cocoon Yield per 100 Dfls, Price of the cocoons.)						Training/Workshop/Field visit/Meeting Programmes in 2000/01 (Name, contents, How many days, how many times per year, number of Production of Cocoons kg.) cocoon participants per one time)			
Race	Dfls	Cocoon Production	Ave. Yield	Rate per Kg.	Total Amount	Name	Contents	Period	No. of participants
12	13	14	15	16	17	18	19	20	21
Kalpa	17825	7262.00	40.70	133.80	Rs.971598/-	Workshop	1.Biv. Hybrid. Programme	2 days One time	200
	CSR	11800	5350.40	45.30	Rs.733616/-		2.Seri Seminar	1 day	96
Kalpa	7700	3830.00	49.70	129.00	Rs.494160/-	Workshop	1.Biv. Hybrid. Programme	2 days One time	100
	CSR	8600	3981.40	46.30	Rs.507772/-		2.Seri Seminar	1 day	48
Kalpa	15000	6750.00	45.00	144.00	Rs.978000/-	Workshop	1.Biv. Hybrid. Programme	2 days One time	50
	CSR	19000	7400.00	39.00	Rs.1184000/-		2.Seri Seminar	1 day	80

MADANAPALLE I PALAMANER I PALAMANER-I

MADANAPALLEI PALAMANGA-II PALAMANGA-I

Quality club (both the existing number and numerical target of the phase 3 project)		CRC (both the existing number and numerical target of the phase 3 project)		System of irrigation (main existing system)	Main Equipments and facilities including trasnportation, communication and computer etc.	Distance from cocoon market and BSF/Grainage respectively (Km).
Existing	Target for the project	Existing	Target for the project			
22	23	24	25	26	27	28
12	50	-	50	Flood Irrigation.	<u>Main equipments required:</u> Microscopes, Furniture, Literature Mobility, Communication, Computer	From Grainage: 0 Kms. located at same place. From Cocoon Market: 0 Kms. Located at same place.
5	50	1	50	Flood Irrigation.	<u>Main equipments required:</u> Microscopes, Furniture, Literature Mobility, Communication, Computer	From Grainage: 20 Kms. From Cocoon Market: 20
10	50	5	50	Flood Irrigation.	<u>Main equipments required:</u> Microscopes, Furniture, Literature Mobility, Communication, Computer	From Grainage: 0 Kms. located at same place. From Cocoon Market: 0 Kms. Located at same place.

2. Details of DOS 's Targeted Technical Service Centre (TSC)

	Capacity	No. of Staff	No. of Teachers	No. of Trained Staff of respective courses	Budget (Rs. In lakhs)	Mulberry yield (Acres)	Covering Farmers	Training Programmes (Name/ contents)	Training Programmes (times and total participants)	Main equipments and facilities.
1.Madakasira.1	On-Farm	7	-	4	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	
2.Madakasira.2	On-Farm	7	-	3	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes furniture, literature , mobility etc.

	Capacity	No. of Staff	No. of Teachers	No. of Trained Staff of respective courses	Budget (Rs. In lakhs)	Mulberry yield (Acres)	Covering Farmers	Training Programmes (Name/ contents)	Training Programmes (times and total participants)	Main equipments and facilities.	
3.Hindupur.1	On-Farm	7	-	2	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes , furniture, literature, mobility etc.	BV School required equipment as proposed under JICA Project will be provided
4.Hindupur.2	On-Farm	7	-	4	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes , furniture literature mobility etc.	BV School required equipment as proposed under JICA Project will be provided
5.Penukonda.1	On-Farm	7	-	5	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes , furniture literature mobility etc.	BV School required equipment as proposed under JICA Project will be provided

	Capacity	No. of Staff	No. of Teachers	No. of Trained Staff of respective courses	Budget (Rs. In lakhs)	Mulberry yield (Acres)	Covering Farmers	Training Programmes (Name/ contents)	Training Programmes (times and total participants)	Main equipments and facilities.	
6.Palamaner.1	On-Farm	7	-	4	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes, furniture literature mobility etc.	BV School required equipment as proposed under JICA Project will be provided
7.Palamaner.2	On-Farm	7	-	3	6.38/ annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes, furniture literature mobility etc.	BV School required equipment as proposed under JICA Project will be provided
8.Madanapalli.1	On-Farm	7	-	4	6.38 / annum 31.9 / project	100 / annum 500 by the end of Project	100 / annum 500 by the end of Project	Farmers Training Programme	Farmers Training Programme 10 days, 4 batches @ 25 farmers/ annum 20 batches per project period	Microscopes, furniture literature mobility etc.	BV School required equipment as proposed under JICA Project will be provided

3. Details of DOS 's Targeted Sericulture Training Schools(STS)

RTC Hindupur	No. of Staff	No. of Teachers	No. of Trained Staff of respective courses	Budget (Rs. In lakhs)	Mulberry field (Acres)	Covering Farmers	Training Programmes	Training Programmes (Name / contents)	Training Programmes (times and total participants)	Main equipments and facilities.
	5	5	3	8.52 / annum 42.60 entire project period	1.5	800 annum 4000 for entire project period	a. Field functionaries b. Farmers Training Programme	a. Transfer of Technology b. Farmers Trainings	2 batches @ 25 staff 32 batches @ 25 per batch	CRC Building, Hostel Building, Late age Silkworm Rearing Building, Garden etc.

4. Details of DOS's Targeted Bivoltine BSF and Grainages.

	Capacity	No. of Staff	No. of Trained Staff of respective courses	Budget (Rs. In lakhs)	Using Bivoltine Race	Amounts of Brushed (Dfls)	Times of Rearing	Covering Farmers	Main equipment and facilities	Reasons
1.Madakasira (Anantapur).1	BSF P2 Seed farm	-	-		-	-	-	-		
1.Madakasira (Anantapur).2	BSF P1/ Selected Seed Rearers	-	-	-	-	9963	Aug/ Feb	25		
2.Punganur (Chittoor)	BSF P1/ Selected Seed Rearers	-	-	-	-	4985	Aug / Feb	15	-	
1.Penukonda (Anantapur)	Grainage	8	-	9.6 / annum 48.0 entire project period	-	Production of Hybrid layings 3.2 lakhs/ annum 16 lakhs for entire project period	Aug/ Feb	500 farmers / annum 2500 for entire project period		
2. Palamaner	Grainage		-	9.6 / annum 48.0 entire project period	-	Production of Hybrid layings 1.6 lakhs/ annum 8 lakhs for entire project period	Aug/ Feb	300 farmers / annum 1500 for entire project period		

2.Details of DOS's Targeted Technical Service Centres (TSC) at present

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Category	No. of Staff (Position Wise)	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Mulberry (Acre): Total & New Varieties respectively	Covering Farmers: Total Sericulturists, Bivoltine farmers and CSR farmers respectively	Result of the production of each bivoltine race this year (Name of races distributed Dfls, production of Cocoons Kg, Cocoon yield per 100 Dfls, the price of cocoon)	Training / works shop/ Field visit / Meeting Programmes in 2000/01 (Name, Contents, How many days, how many times per year, number of participants per one time)	Quality club (Both the existing number and numerical target of the Phase 3 Project)	CRC (Both the existing number and numerical target of the project)	System of Irrigation (main existing system)	Main equipments and facilities including transportation, communication and computer etc.,	Distance from Cocoon market and B SF/Grainage respectively (Km.)	
1. Coimbatore (Coimbatore District)	Seed	AIS-1 JIS-2	One day training at RSRS-Salem	2.90 lakhs 3.10 lakhs	40 Acres (VI-5 Acres MR2-35 Acres)	Total 101 (Hybrid -61 CSR -seed-40)	NB 4D: 8950 Dfls 4041 Kgs Ave. 45.1 Kgs. Ave. Rate Rs.200/-	2000-2001 RSRS Coonor 2days/Chawkie Training 40 / once in a year RSRS Coonor 2. New CSR rearing Technology one day 4 times / year 2 times/ year 24 farmers 4. TNAU and Department Bivoltine awareness seminar One day / one year 48 Sericulture farmers - Poly Technic RSRS coonor.	Existing- 3 Proposed- 2	Existing-Nil Proposed-2	Borewell Drip Irrigation -7 Sprayer-2	Sprayer-2	20-35 Km

2.Details of DOS's Targeted Technical Service Centres (TSC) at present

	Category	No. of Staff (Position Wise)	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Mulberry hold(Acres): Total & New Varieties respectively	Covering Farmers: Total Serifarmers, Bivoltine farmers and CSR farmers respectively	Result of the production of each Bivoltine race this year (Name of races distributed DfIs, production of Cocoon Eg.) Cocoon yield per 100 DfIs, the price of cocoon)	Training / works shop/ Field visit / Meeting Programmes in 2000/01 (Name, Contents,How many days, how many times per year, number of participants per one time)	Quality club (Both the existing number and numerical target of the Phase 3 Project)	CRC (Both the existing number and numerical target of the project)	System of Irrigation(main existing system)	Main equipments and facilities including transportation, communication and computer etc.,	Distance from Cocoon market and B SF/Grainage respectively (Km.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.Hosur	Hybrid	AIS-1 JIS-7	CSR Rearing Training 24 Days AIS-2 (1999 year)	7.69 Lakhs 7.93 lakhs	Total 420.25 Ac (VI-40.35Ac. 836-43.6 Ac. MR2-18 Ac. Local- 349.50Ac.	Total 596 Bivoltine -11 CSR -10)	Bivoltine-3611 DfIs Maximum yield-66.81Kgs CSR-1750 DfIs 45Kgs/100DfIs	Exposure Visit 7 places - 7 Times Chowkie Rearing 23 Nos-10 days GSTS-Hosur	Existing - 4 Nos. Proposed -8	Existing- Nil Proposed-8	Well irrigation	Sparyer-1 Microscope-1	Hosur Market (Local) Rannagar -60 Km.
2.Krishnagiri	Hybrid	AIS-1 JIS-1	Bivoltine rearing at CSRII Mysore 1 Month JIS-1 7 Persons-2Days CSR awareness Programme at R.SRS Salem	7.40 lakhs 7.71 lakhs	Total-340.85 Ac. (836-48.25 Ac. VI-16.75 Ac. MR2-151.90 Ac.	Total- Bivoltine- CSR-	CSR- 4000 DfIs 611.3 Kgs 15.0 Kgs/100 DfIs	Exposure Visit to JICA-153 Bivoltine Chowkie Rearing -4 (10 Days) CSR Awareness Programme 1- 40	Existing - 4 Nos. Proposed -8	Existing- Nil Proposed -8	Well Irrigation	Sparyer-1 Microscope-1	20 Km.

2.Details of DOS's Targeted Technical Service Centres (TSC) at present

	Category	No. of Staff (Fertilizer Wise)	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Mulberry field(Acres): Total & New Varieties respectively	Covering Farmers: Total Serifarmers, Bivoltine farmers and CSR farmers respectively	Result of the production of each bivoltine race this year (Name of races distributed DfIs, production of Cocoon Kg.) Cocoon yield per 100 DfIs, the price of cocoon)	Training / works shop/ Field visit / Meeting Programmes programmes in 2000/01 (Name, Contents,How many days, how many times per year, number of participants per one time)	Quality club (Both the existing number and numerical target of the Phase 3 Project)	CRC (Both the existing number and numerical target of the project)	Syystem of Irrigation(main existing system)	Main equipments and facilities including transportation, communication and computer etc.,	Distance from Cocoon market and B SP/Grainage respectively (Km.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Pappireddipaty	Hybrid	IS-1 JIS-5	IS-1 60 -Days Mulberry Cultivation Silkworm Rearing CSRTI, Mysore JIS-1 30-Days Bivoltine Rearing Tech. CSRTI, Mysore	3.57 lakhs 3.89 Lakhs	Total 228 Ac. (V1-18 Ac. MR2-193 Ac. M5 - 17 Ac.	Total 284 Bivoltine -1 CSR -15	2000-2001 CSR 1075 DfIs 296.6 Kgs Ave. yield- 27.3 Kgs/100 DfIs Ave. Rate - Ra.162/ Kg. 2001-02 CSR 2440 DfIs 721.9 kgs. Ave. Yield- 29.5 Kgs/ 100DfIs Ave.Rate-Ra.160/Kg	Awareness Meeting 10 Nos. -1 Day 24 Participants Training- CDS INo. - 1 Day Year1 - 11Participants Exposure Visit 6Nos. - 1 Day - Year6 79 Participants	SQC - 4 Nos. Proposed -3	Existing-Nil Proposed-1	Well irrigation Drip-4 farmers	Spayer-1 Microscope-1	Dharmapuri 55 Km Rannagar -150 Km

2. Details of DOS's Targeted Technical Service Centres (TSC) at present

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Category	No. of Staff (Position Wise)	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Mulberry (Breed/Across): Total & New Varieties respectively	Covaring Farmers: Total Seriformers, Bivoltine farmers and CSR farmers respectively	Result of the production of each bivoltine race this year (Name of races distributed Dfls, production of Cocoons Kg, Cocoon yield per 100 Dfls, the price of cocoon)	Training / works shop/ Field visit / Meeting Programmes in 2000/01 (Name, Contents, How many days, how many times per year, number of participants per one time)	Quality club (Both the existing number and numerical target of the Phase 3 Project)	CRC (Both the existing number and numerical target of the project)	System of Irrigation (main existing system)	Main equipments and facilities including transportation, communication and computer etc.,	Distance from Cocoon market and B SF/Grubage respectively (Km.)	
Sathyamangalam Hybrid	AIS-1 JIS-5	1 Day Exposure Training on CSR Rearing at RSRS, Salem for all Staff	4.10 Lakhs 4.50 Lakhs	Total 140.65 Ac. VI-5 Ac. MR2-130.6 Ac. M5 - 10 Ac.	Total 165 Bivoltine and CSR -30	CSR 4950 Dfls 1733.8 Kgs Ave. yield- 35.02 kgs/100 dfl Ave. Rate - Rs.160/Kg.	Farmers Training 3 times per year- 1 day 25 Participants Visit 17 times per year 1 Day - 20 Participants	Existing-1 Proposed -2	Existing- Nil Proposed -2	Well irrigation	Spayer-1 Microscope-1	Coimbatore 60 Km CH Nagar-120 Km	

NOTE: IS- Inspector of Sericulture
AIS - Asst. Inspector of Sericulture
JIS_Junior Inspector of Sericulture

3.Details of DOS's Targeted Sericulture Training Schools (STS) at present

	No.of Staff (Position wise)	No.of Teacher	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Mulberry Field owned (Acres): Total and new Varieties respectively	Training / works shop/ Field visit / Meeting Programmes for staff in 2000/01 (Name, Contents,How many days, how many times per year, number of participants per one time) (Covering Farmers)	Training / works shop/ Field visit / Meeting Programmes for farmers in 2000/01 (Name, Contents,How many days, how many times per year, number of participants per one time)	Main equipments and facilities including tarnsportation, communication and computer etc.,	Remarks
GSTS Hosur	11	4 (STS) IS- 1 Deputed from GSF Hosur	1.S. Veerabdrasamy Depty Director CT- 94 China-90 Days ICTRETS, CSRTI Mysore- 1 year Bivoltine Reeling Tech. 2. Balasubramanian.C Inspector of Sericulture Bivoltine young age silk worm rearing (In Country- CSRTI Mysore - 30 days (Aug. 2001) 3. Chandrakanthan.R IS- National summer school on Bivoltine Silkworm rearing at RSRS Kodathy 10 Days May 2001 4. Sanmugam.K AIS - Bivoltine Chawkie rearing for seed crop (JICA sponsored) at SSTL Kodathy 10-days June 2001 5.Theerthagiri.G IS Bivoltine Race Maint. at CSRTI, Mysore. 45 days	Administration 14.26 lakhs Training 1.08 lakhs	1.50 Acres (VI Variety)	2000-01 Training Programme 1.Farmers Contact 1 -Day -Participants-1700 2.SQC Group leader training Programme 4 -Days - 33 Farmers 5 Days- 744 Participants 3. Capsule Taring on CSR Rearing 1 Day - 589 Farmers	2000-01 Training Programme 1. Farmers Contacts 1 Day - 89 Staff 2. SDC Assisted SQC Facilitators Training Programme Phase-I and II - 3 Days Training Conducted by RSRS, at Salem. 2 Days -245 Staff 4. Field Demo of Technologies for field Staff (on CSR Rearing) 2 Days- 347 Staff 5. Staff refresher Course 5 Days - 60 Staff 6. Capsule Training on CSR rearing - 1 Day -194 Staff	1. Lecture Hall with Furnitures 2. Hostel for trainees 3. Library 4. Mini bus for field Visit 5. OHP 8. Photo Phone- -35 mm 9. Humidifier 10.Heater 11. Generator 12. Plastic incubation frames 13. Rotary Mountages 14. Cocoon harvester 15. Plastic Crates for leaves preservation 16. Power Sprayer	

4.Details of DOS's Targeted Bivoltine BSF and Grainages at present

	Category	No.of Staff (Position Wise)	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Using Bivoltine Races	Amounts of Brushed (Dfls)	Times of Rearing	Covering farmers (Current figure and also numerical target of the project	Main Equipments and Facilities	Remarks
1	2	3	4	5	6	7	8	9	10	11
Avalappalli	Basic Seed Farm (BSF)	AIS-1 JIS-4 PS-1 Rearer-4	AIS Chawkie rearing SSTL- Kodathy Bangalore 10 Days JIS 1 Month-	8.66 Lakhs 8.12 Lakhs CSR Pure races and NB4D2	CSR Pure races and NB4D2	1110	All Months in the Year		1.Facilities Open wells -2 Bore well-1 Rearing Buildings-5 2Garden Implements 3.Rearing Equipments Rearing Stand-3 Humidifier-2 Palstic Trays-115 Microscope-3 Centrifuge -1 Refrigerator-2	Since the Seed farm is having limited mulberry area, an isolated, qualitative achievement is in this farm gave good result.

4.Details of DOS's Targeted Bivoltine BSF and Grainages at present

	Category	No.of Staff (Position Wise)	Bivoltine related Trainings which each staff has got (Who, when, how many days, what, where which Institute)	Budget (This year's & Coming year's respectively)	Using Bivoltine Races	Amounts of Brushed (DfIs)	Times of Rearing	Covering farmers (Current figure and also numerical target of the project	Main Equipments and Facilities	Remarks
Coimbatore	Grainage (BSF)	Is-1 JIS-1	IS-1 JIS-1 Loose egg preparation PPPBST 15 Days /SSTL Kodathy, Bangalore IS 2 months In-country Mulberry Cultivation and SilkWorm Rearing under JICA	11.88 Lakhs 12.50 Lakhs	NB4D2 Proposed CSR	24000 DfIs CSR pure 6000 DfIs	All Months in the Year	101	1. Trays 2.Stand 3.Refrigerator 4. Cold storage	

第Ⅱ部 実施協議報告書

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1. 実施協議の概要

1-1 総括

2001年11月の短期調査結果を受けて、JICAインド事務所は、インド政府関係機関である繊維省、同省中央蚕糸局(CSB)、大蔵省との間で数度にわたる協議を行った。その結果、付属資料1.及び2. のとおり討議議事録(R/D)及びミニッツ(PDM、PO、プロジェクトドキュメントを含む)の署名・交換を行った。

また、プロジェクト開始に先立ち、CSBは、カルナタカ州、アンドラプラデシュ州、タミルナド州の各州蚕糸局(DOS)との間で、それぞれ本プロジェクトにおける双方の役割と義務に関する覚書(MOU)の署名を取り交わした(付属資料3.)。

協議の過程は以下のとおりである。

- ・2002年3月中旬 JICA本部よりプロジェクトドキュメント案送付
- ・2002年3月下旬 JICA本部よりR/D案送付
- ・2002年3月下旬～4月 JICAインド事務所長によるR/Dの協議
- ・2002年4月30日 R/D署名・交換
- ・2002年5月4日 CSBと3州DOS間のMOU署名・交換
- ・2002年7月5日 ミニッツ(プロジェクトドキュメント含む)署名・交換

これにより「インド養蚕普及強化計画」が概要以下のとおり実施されることになった。

1-2 プロジェクトの概要

(1) プロジェクト名

インド養蚕普及強化計画(英文: The Project for Strengthening Extension System for Bivoltine Sericulture in India)

(2) プロジェクトサイト

1) 繊維省中央蚕糸局(CSB)本部

カルナタカ州バンガロール市(デリーから1750km、飛行機で2.5時間)

2) 中央蚕糸技術研究訓練所(CSR&TI)

カルナタカ州マイソール(バンガロールから約130km)

3) 対象3州

(3) 相手国実施機関

- 1) 繊維省中央蚕糸局(CSB)
- 2) カルナタカ州蚕糸局
- 3) アンドラプラデシュ州蚕糸局
- 4) タミルナド州蚕糸局

(4) 上位目標

二化性生糸の生産量及び品質が向上し、二化性養蚕農家と製糸業者の収入が向上することをめざす。

(5) プロジェクト目標

二化性養蚕の普及システムが軌道に乗る。

(6) 期待される成果

- 1) 二化性養蚕普及のためのアクションプランが策定される。
- 2) CSBとDOS間の連携・調整メカニズムが確立される。
- 3) 優良蚕種の大量製造システムが確立される。
- 4) DOSスタッフが二化性養蚕に必要な技術・知識を身につけるとともに、研修施設が二化性に適したものに改善される。
- 5) 二化性養蚕の普及モデルが確立される。

(7) 協力活動内容

- 1) 二化性養蚕普及のためのアクション・プランの策定
- 2) CSBと3州のDOS間における連携・調整メカニズムの確立
- 3) 優良蚕種製造システムの整備
- 4) 研修強化
- 5) モデル普及所を通じた二化性養蚕普及手法の確立

(8) 日本側の対応

- 1) 専門家派遣

① 長期

チーフアドバイザー、業務調整、蚕品種維持／蚕種製造、普及、研修の計5名

② 短期

蚕病防除、蚕種製造技術、養蚕普及等

2) 研修員受入れ

蚕種製造技術、養蚕普及等

3) 機材供与

研修用機材、普及所用機材、蚕種製造所用機材等

(9) 実施体制

CSB局長がプロジェクトディレクター兼プロジェクトマネージャーとして、プロジェクトの運営・管理にあたる。また、CSBの二化性養蚕振興対策室(BVC)室長が、副プロジェクトマネージャーとしてこれを補佐する。一方プロジェクトに係る重要事項を協議する合同調整委員会の委員長は繊維省次官補とする。

(10) 協力期間

専門家の到着時から5年間

2. 主要協議事項

(1) インド側負担事項について

インド政府負担とすべき事項のうち、1)日本人専門家のインド国内の業務出張にかかる旅費と移動手段の確保、2)日本人専門家及びその家族のための住居の提供について、インド側から、インド側費用負担とするのではなく、インド側が必要な措置を取る(が費用負担はしない)事項としたいとの要望があり、協議の結果、インドの現状及び他の協力事項を踏まえて、先方要望のとおりとすることで合意した。

(2) 実施体制について

1) 本プロジェクトにおいては、州政府との調整が重要となる。このため、短期調査ミニッツでは、プロジェクトディレクターを繊維省次官補(Joint Secretary)とすることで合意していたが、インド側より、次官補クラスがプロジェクトに直接かかわることはインドでは一般的ではないため、プロジェクトディレクターを次官補とせず、繊維省中央蚕糸局(CSB)の局長(Member Secretary)としたいとの要望があり、協議の結果、インド政府の行政事務慣行を尊重し、次官補をプロジェクトディレクターから外すこととした。ただし、州政府との関係における連邦政府繊維省のリーダーシップを確保する意味から、合同調整委員会委員長は繊維省次官補とすることで合意した。

2) CSBの二化性養蚕振興対策室(BVC)の長をDeputy Project Managerとするほか、CSB本部のJoint Director (Technical)をDeputy Project Managerとするようインド側から訂正の提案があった。これについては、現状においてもCSB内関係者間の調整・連絡が円滑とは言い難いことから、実質的な日々のプロジェクト運営に携わるDeputy Project Managerが2名となることによって、余計に情報の流れが煩雑になると想像されることから、その旨先方に説明し、当初案どおりとすることで合意を得た。

3. 所 感

本プロジェクトのR/Dについては、日本から実施協議調査団を派遣せず、JICAインド事務所と先方との間で協議を行い、R/Dの署名を取り交わした。繊維省中央蚕糸局(CSB)の段階では、プロジェクト案、実施体制等について、短期調査結果に沿って合意を得ており、何ら問題はなかったものの、CSBから繊維省への連絡の不足、あるいは、繊維省次官補のプロジェクトに対する理解の不足等のため、短期調査時点で合意されていた事項を再度説明し、調整する必要が生じ、当初予定以上に時間を要する結果となった。