



CHRONOLOGICAL EVOLUTION OF TASAR SILK INDUSTRY WITH REFERENCE TO CHHATTISGARH

Rajiv H. Peters * and Dr. Shobhit Bajpai

Dr. C.V. Raman University, Bilaspur, India

Abstract: - There are regular markets or haats in almost all parts of tasar producing states. By tradition, tribal rear tasar silkworms using forest trees, produce cocoons and sell in weekly rural markets where producers bring their goods on a designated market day, at whatever prices offered. Due to monopoly, the producers are exploited by the commission agent through manipulative practices. The traders/mahajans have links with buyers from other states and as such, the cocoons are also hoarded for long periods. This study is mainly based on secondary data which has been collected from different sources like Government annual reports, different website, other Government journals and records.

Key Word: Silk Industry, Natural Cocoon, Mulberry.

Introduction: India is the second largest producer of silk next to china both in the production of mulberry & tasar raw silks. Sericulture is widely practiced in India but in a traditional and primitive way. For the last four decades, sericulture has been only an agro based cottage industry. The Government, however, has emphasized oriented and poverty elevating tool. Hence, Rural Development Projects are being assisted by the government to support this industry in the form of National Sericulture

Project.

Role of Marketing in tasar silk: Tropical tasar forms an important part of tribal economy in India and tasar silk industry plays a dual role of arresting the deforestation and generating gainful employment to the tribal inhabitants. India has rich natural resources of food plants for tasar silkworm and abundant manpower. However, tasar silk industry has been facing a number of constraints resulting in uncertain growth prospects. One such major factor is lack of adequate marketing system in tasar sector.

Objectives:

- 1) Tasar Silk Industry is one of the major agriculture and forest based rural Industry. In Chhattisgarh, traditionally Silk Rearing and Weaving is considered as Cottage Industry.

For Correspondence:

rajivpeters@cvru.ac.in

Received on: July 2016

Accepted after revision: July 2016

Downloaded from: www.iohronline.com

- 2) By means of Tasar Silk Industry, Socially and Economically backward beneficiaries and those who are sustaining below poverty line especially the Women Folk are able to get a source of livelihood.
 - 3) The objective of the Schemes running by Rural Industries Directorate is to provide a better livelihood as well as to meet the demand of Raw Silk, Directorate develop infrastructure in order to increase the Silk productivity, Introduction of New techniques on the Field to increase the Productivity.
- Strategy for meeting the Objectives:**
- 1) By enhancing the activities of Natural Tasar Production as well as Traditional Silk Rearing.
 - 2) Enhancing the production of Silk threads and provide it to the Weaver of the State at reasonable price According to their needs.
 - 3) By Public Participation and making Silk Industry's Employment generating Scheme more Commercially Viable
 - 4) Promotion with the objective of generating additional income for Private Players in Mulberry Plantation for Silk Worm Rearing.
 - 5) For enhancing Market Oriented production, the quality of Cocoon and Silk thread is consistently improve along with the efforts on Skill Development and technology transfer.
 - 6) Organising training Camp for Selected Districts for the betterment of Naturally Rolly/ Lariya Cocoon Rearing.
 - 7) Cumulative development of new techniques for Reared Tasar Production.
 - 8) Emphasizing active women participation in Silk production.
 - 9) Proper implementation of subsidies for Rearers on Healthy breed of Reared Species.
 - 10) Initiative of Tasar/Mulberry production and Quality improvement by Growth inducing program.

| Table No 1: Physical Acheivements of Rural Development Directorate (Silk Department) | | | | |
|---|--|--------------------------------------|--|---|
| S.No. | Description | Unit | Year 2013-14 Physical Achievement | Year 2014-15 Up to Dec.2014 Physical Achievement |
| 1 | Tasar Plantation by the Departmental piece | in Hectares | Nil | 35 |
| 2 | Tasar Cocoon production (Reared Daba) (Natural Cocoon estimated collection) | In Lakh per unit In Lakh per unit | 583.03 2048.40 | 399.27 462.11 |
| | TOTAL | | 2631.43 | 861.38 |
| 3 | Eri Plantation by Departmental assistance | In Acres | 78 | 10 |
| 4 | Eri Silk Production | K.G. | 2192 | 47 |
| 5 | Mulberry Plantation by Departmental assistance | In Acres | Nil | 8 |
| 6 | Mulberry Cocoon Production | K.G. | 64911 | 43112 |
| 7 | Employment generated | In Numbers | 105247 | 39875 |
| Table No.02: Convergence of other Schemes for Silk Development | | | | |
| S.No. | Name of scheme | Description of work | Unit of work | Physical acheivement of work |
| 1 | From MNREGA | Tasar Fertilizer Plantation | In Hectare | 60 |
| 2 | From Center assisted development program | Tasar Fertilizer Plantation | In Hectare | 97 |

Efforts For Self-Help Through Tasar Silk Development And Expansion Program:

Natural seed multiplication program is being implemented in Jagdalpur/ Southern Bastar Dantewada / North Bastar Kanker / Dhamtari / Kabirdham / Raipur / Rajnandgaon /Korba / Korea / Jashpur / Ambikapur / Janjgir. While Daba Tasar intensive development program in Sal / Saja / Senha / Dhowda / Arjuna in being implemented in multiple forest fragments through Camps.

- 1) Tasar Beneficiaries oriented Scheme for Tasar development under community development program conducted by Central Silk Board.
- 2) Under the program Tasar beneficiaries are provided disease free laying (DFL) on subsidise rate of 1rs per DFL and thereafter from this year onwards the beneficiaries are being given financial assistance of rs 5 per DFL.
- 3) The facility for purchase of Cocoons produced by rearers on pre fixed Government rates is available locally at Government established Cocoon Bank / Societies. During the year 2014-15 the Government has fixed the purchase rate of Cocoons based on the quality of Cocoon and the Cocoon Bank purchases all the quality seed / commercial Cocoon from rearer-

Table No 3

| S.No. | Cocoon Grade | Rate per thousands of Cocoons in rs |
|-------|------------------------|-------------------------------------|
| 1 | A Grade | 1680 |
| 2 | B Grade | 1440 |
| 3 | C Grade | 1080 |
| 4 | D Grade | 720 |
| 5 | Flimsy Cocoon | 300 |
| 6 | A Grade Pierced Cocoon | 715 |
| 7 | B Grade Pierced Cocoon | 605 |
| 8 | C Grade Pierced Cocoon | 440 |
| 9 | D Grade Pierced Cocoon | 275 |

- 4) If the market rate of reared Cocoons is higher than that of rates fixed for Cocoon

bank than the Cocoon Bank can procure Cocoons as per the prevailing market rate. In addition, provision has been made by the Government to give incentive to Tasar seed rearers as given below :-

Table No 4

| S.No. | Seed Cocoon Grade | Additional incentive in rs per thousand of Cocoons. |
|-------|-------------------|---|
| 1 | A Grade | 400 |
| 2 | B Grade | 300 |
| 3 | C Grade | 250 |
| 4 | D Grade | 200 |

State schemes and central sponsored scheme Training and research:

- Establishment of training and research institute for imparting training to employees and beneficiaries to ensure qualitative and quantitative production of Cocoons, and implementation of new schemes and CSB sponsored field trail.
- Under the training program the main thrust is to make the trainees aware of high quality Tasar / Mulberry Seed production and to give them knowledge about the latest techniques of plantation and its maintenance etc. Similarly the institute also conducts field trials for new techniques so that overall quality of production and plantation is well understood by the Beneficiaries / Staff.

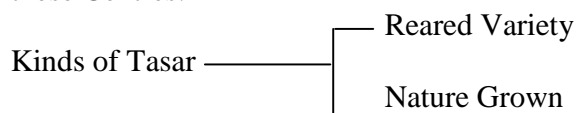
| Details of Training / Seminars Organized Departmentally | | | | |
|---|---------|--------------------|---------------|-------|
| S. No. | Year | Number of Trainees | | Total |
| | | Departmental Staff | Beneficiaries | |
| 1 | 2010-11 | 42 | 803 | 845 |
| 2 | 2011-12 | 150 | 956 | 1006 |
| 3 | 2012-13 | 59 | 1219 | 1278 |
| 4 | 2013-14 | 60 | 1134 | 1194 |
| 5 | 2014-15 | 265 | 1140 | 1405 |

Training Program Under Skill Development:-

Under the Central Government Skill development initiative scheme and Chief Minister skill development initiative scheme (SDIS), and Through Central Silk Board (MOT)

Ministry of Textile Government of India (GOI) in the state of Chhattisgarh, A target for training 300 beneficiaries was given against which training through 3 MES Courses in 5 BSM & TC (Basic Seed multiplication & training Centre) was imparted to 335 trainees. Hence the target of training for the Year 2014-15 has been fully achieved.

Tasar development and Extension Program: In the State of Chhattisgarh, Under Tasar development and extension program, in Tasar Seed Centre / Pilot project and other Schemes, the work relating to seed production, reared variety Cocoon production, Farm maintenance and nature grown seed multiplication and Cocoon production and reeling is carried out in these Centres.



Scheme

Reared daba tasar cocoon production scheme: The Department provides following assistance to the beneficiaries for reared variety of Daba Cocoons:

- 1) In the State the department provides a financial assistance of 5 per DFL to the Commercial rearers during 1st 2nd & 3rd Crop for DFL production. And the rearers are

Natural Seed Multiplication and Cocoon Production Scheme:

| | | |
|---|--|--|
| <ul style="list-style-type: none"> ➤ Natural species of Rally, Lariya and Barf Cocoon are found in naturally available dense forest of Sal, Sneha, Dhawada, Bair in the forest area. ➤ The nature grown Cocoon production from these eggs takes place in the forest blocks without any human interference. This nature grown Cocoons are collected by Sc / St and other tribal families living in this area | <ul style="list-style-type: none"> ➤ Nature grown Cocoon production is produce in Bastar, Dantewada, Dhamatri, Raipur, Rajnandgaon, Kabirdham, Jashpur, Janjgir, Korba and Korea Districts of Chhattisgarh State. | <ul style="list-style-type: none"> ➤ Sericulture sector organizes regular natural seed multiplication camps in natural forest blocks by spreading male & female moth and eggs in these areas. |
|---|--|--|

Facilities provided by the department for natural seed multiplication and its production.

- 1) The breeding materials (DFL & Moths) are being spread in Sal dominated forest blocks.

provided DFL at the rate rs per 1 DFL to the rearers.

- 2) Free technical guidance.
- 3) Procurement of quality based Cocoons through Sericulture Societies on fixed support prices and thereby provides relief to the rearers to look for marketing of their Cocoons.

The Sericulture Sector under Directorate of Rural Industries is conducting 139 Tasar Centre out of which 43 PPC (Pilot Project Centre) / 84 other Tasar Centres, 12 Tasar seed farm (TSF) and 151 (JBIS) Japanese Bank for International Co-operation assisted plantation sites and under MANEREGA Scheme with the help of District administration Tasar Plantation has been done in new areas.

Presently the Directorate of Rural Industry under Tasar Development and Extension program has the plantation in 19186 Hectare of land having Saja, Arjuna and other varieties of Tasar food plants which are available in departmental farms, new areas, project area and natural forest area.

Presently utilisation of 3302 Hectare of plantation in departmental farms, 1360 Hectare in new areas, 4333 Hectare in natural forest areas and 2548 Hectare under JBIC assisted Tasar project is being insured.

2) In the open market the Department procures live seed Cocoons through Cocoon Bank. At present open market system is available for the sale and purchase of nature grown cocoons.

DETAILS

| Reared / Natural Grown Cocoon Collection for Last 5 Years | | | | | | | |
|--|---|-------------|----------------|----------------|----------------|----------------|----------------------------|
| S. No | Particulars | Unit | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 from dec-14 |
| 1 | Reared variety daba tasar cocoon | In lakhs | 419 | 587 | 581.44 | 583.03 | 399.27 |
| 2 | Nature grown tasar cocoon production (approximate collection) | In lakhs | 870 | 1636 | 1999.77 | 2048.41 | 462.11 |
| | TOTAL | | 1289 | 2223 | 2581.21 | 2631.44 | 861.38 |

- 3) In order to provide maximum benefit to the local beneficiaries :
- a) 1784 tasar motorized reeling machine and 736 spinning machine have been distributed to the beneficiaries for reeling purpose.
- b) Additional income of 50 to 60 per beneficiary to the reeling beneficiaries.

Approximate raw silk and spun silk production based on collection of reared and nature grown cocoons in the last 5 years

| S.No | Particulars | Unit | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 from dec-14 |
|-------------|--|-------------|----------------|----------------|----------------|----------------|----------------------------|
| 1 | Approximate production of tasar raw silk and spun silk based on statistics | Metric tone | 168 | 298.61 | 387.18 | 394.71 | 109.24 |

Extention of Basic Facilities In Tasar Sector Under Minor Works: Under this scheme, construction of rearing house, grainage building and cocoon godown, upgradation of chawkie rearing building and other new construction and fencing and creation of irrigation facilities is carried out in pre-established tasar centres.

Development and Extention of Castor (Arrendy) Plantation And Eri Cocoon Production-The Sericulture sector under Directorate of Rural Industries in addition to development of tasar and mulberry is also under taking plantation of castor plants in the vacant land available in the departmental farms and on private lands of cultivators to promote Eri Sericulture in the State of Chhattisgarh. Castor plantation and Eri cocoon production is being carried out in the earmark districts of Chhattisgarh State i.e., Jashpur, Raigarh,

Jagdapur and Kanker. This scheme has been implemented on a trial basis in the State. The price of green Eri cocoon based on its quality has been fixed at 50 per kg (with Pupa).

Scheme

Catalic Development Program Under Central Sponsered Scheme: The main objective of Catalic development program (CDP) scheme sponsored by Central Silk Board is to provide self employment to private seed rearers through technical innovation, enhancement of quality and productivity. Under this scheme the main objective is to provide assistance to selected seed beneficiaries in tasar / mulberry rearing, drainage equipments, chemicals and fertilizers, drip irrigations, chawkie rearing House and Chawkie rearing equipments. Along with this to raise the social and economic status of beneficiaries under the scheme it makes a

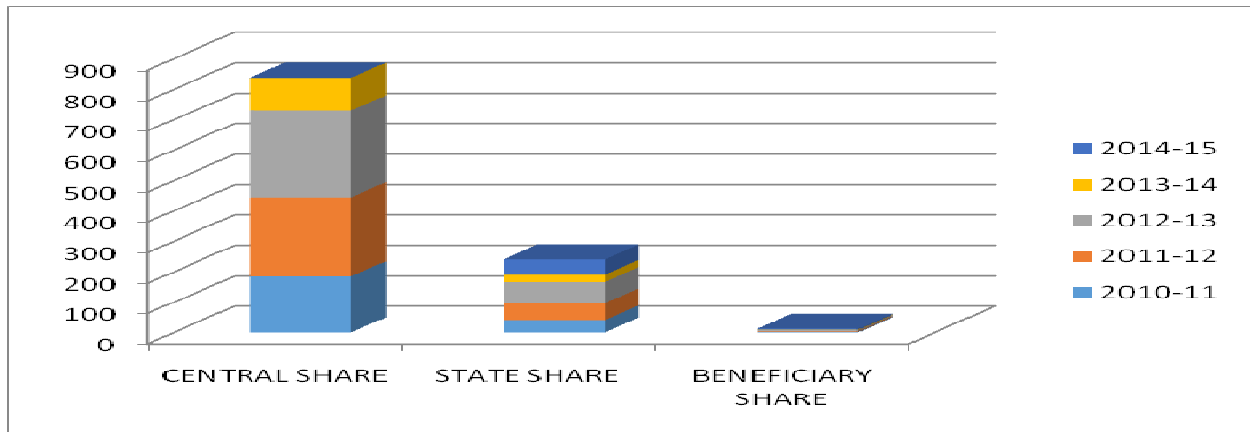
provision for straightening of farms and reeling units in order to enhance production and qualitative improvement with the ultimate aim of creating self employment.

With the help of economic assistance received under the scheme from CSB the State has been

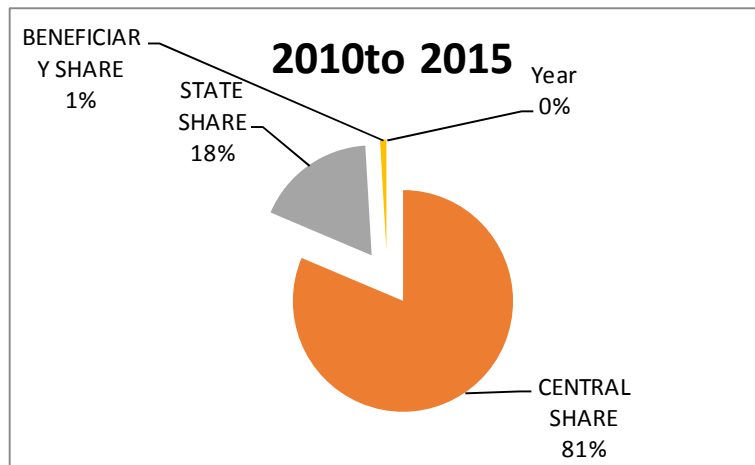
able to achieve its objective with a sustainable growth. And by exploiting the available resources it has been possible to provide maximum employment to the beneficiaries thereby raising their Social and Economic Status.

| Details of Central / State / Beneficiary Share Under CDP | | | | | | |
|--|---------|---------------|-------------|-------------------|---------|-------------------------|
| S.No . | Year | Central Share | State Share | Beneficiary Share | Total | Number of Beneficiaries |
| 1 | 2010-11 | 185.91 | 40.39 | 2.12 | 228.42 | 1800 |
| 2 | 2011-12 | 260.15 | 57.4 | 2.736 | 321.83 | 1455 |
| 3 | 2012-13 | 285.422 | 69.495 | 3.550 | 358.49 | 1205 |
| 4 | 2013-14 | 106.970 | 23.70 | 1.168 | 131.84 | 357 |
| 5 | 2014-15 | 213.250 | 49.981 | 2.579 | 265.810 | 875 |

Graph-01



Graph-2



**Details Of Beneficiaries / Labour Benefited Through All Sericultures Schemes In
The Last 5 Years**

| S.No. | PARTICULARS | UNIT | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 FROM DEC-14 |
|-------|---------------------------------------|---------------|---------|---------|---------|---------|---------------------------|
| 1 | Beneficiaries / Laobours benefited | In Numbers | 63846 | 73351 | 88522 | 105247 | 39875 |

Conclusion: State of Chhattisgarh traditionally occupies an important place in production of Tasar cocoons from time immemorial. The tasar Sericulture has been recognized as an effective small scale forest based industry providing employment and for Eradication of poverty in Chhattisgarh. As per the desire of State Government in order to promote forest based Rural Industry, the Sericulture sector is implementing various schemes for rural folks (i.e., poor families of SC / ST / Other backward class) by creating self employment at village level and to meet the demand of tasar yarn in the

state. Under Sericulture sector of Rural Industries with the help of Central Silk Board the CDP (Catalic development program) is being implemented successfully for Tasar / Nature grown cocoon, mulberry development and Tasar reeling. Till end of December 2014 39875 beneficiaries have benefited under the scheme.

Reference:-

- 1- CG Government Annual Report 2014-15.
- 2- R&D Wing of Chhattisgarh State Sericulture Board, Koni – Bilaspur.
- 3- Central Silk Board, Bilaspur.