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No.: J-11017/17/2013-MGNREGA (UN) (Part-II)  
Government of India  
Ministry of Rural Development  
(Mahatma Gandhi NREGA Division)

Krishi Bhawan, New Delhi

October 8, 2013

To

The Chief Secretary  
Government of Karnataka/Andhra Pradesh/Tamil Nadu/Kerala/  
West Bengal/Maharashtra/Madhya Pradesh/Uttar Pradesh/Odisha/  
Bihar/Assam/Tripura/Mizoram/Manipur/J&K/Himachal Pradesh/  
Uttarakhand/Jharkhand/Chhattisgarh/Nagaland/Arunachal Pradesh/  
Meghalaya.

Sub: Guidelines for convergence of MGNREGA with Catalytic Development Programme of the Ministry of Textiles.

Sir/Madam,


In recent years, substantial public investments are being made for strengthening the rural economy and the livelihood base of the poor. To maximise outcomes of these investments and effectively address the issue of poverty alleviation, there is a need to optimize efforts through inter-sectoral convergence of development programmes. MGNREGA offers a major opportunity for leveraging convergence. The Ministry of Textiles is an important partner in this regard.

The expansion of the scope of individual land holdings from SC/ST/BPL to include marginal and small farmers provides a large base for convergence in a way that can directly impact productivity and income. Based on a series of consultations among the Ministry of Rural development, Ministry of Textiles and Central Silk Board, guidelines for convergence between MGNREGA and Catalytic Development Programme have been developed and are attached. These guidelines are meant to optimize synergies between the programmes of the two Ministries. They are suggestive in nature and should be used to encourage innovative convergence projects pertaining to sericulture at the district and sub-district levels.

Keeping the above in view, we would request you to convene a meeting of the officials of the concerned Departments in the states to discuss these guidelines. This should be followed by a joint meeting of the district officials handling MGNREGA and schemes of sericulture. The District Officers' meetings should aim at firming up processes for operationalizing the Convergence Guidelines in a time bound manner.

We would appreciate an acknowledgement of this communication and intimation of the action initiated.

  
Secretary  
Department of Rural Development  
Ministry of Rural Development

  
Secretary  
Ministry of Textiles

Copy to: The Principal Secretary (Rural Development Department- In-charge MGNREGA),  
Government of Karnataka/A.P./Tamil Nadu/Kerala/UP/  
Maharashtra/MP/UP/Odisha/Bihar/Assam/Tripura/  
Mizoram/Manipur/J&K/HP/Uttarakhand/Jharkhand/Chhattisgarh/  
Nagaland/Arunachal Pradesh/Meghalaya

8-10-2013

**GUIDELINES FOR TAKING UP OF HOST PLANTS OF SILKWORMS**

**THROUGH**

**CONVERGENCE OF**

**MAHATMA GANDHI NATIONAL RURAL EMPLOYMENT GUARANTEE SCHEME  
(MGNREGS) OF THE MINISTRY OF RURAL DEVELOPMENT, GOVT. OF INDIA**

**AND**

**SCHEMES OF CATALYTIC DEVELOPMENT PROGRAMME (CDP) OF THE  
MINISTRY OF TEXTILES, GOVT. OF INDIA**

**JOINTLY ISSUED**

**BY**

**MINISTRY OF RURAL DEVELOPMENT**

**GOVT. OF INDIA**

**&**

**MINISTRY OF TEXTILES**

**GOVT. OF INDIA**

**2013-14**

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**LIST OF ABBREVIATIONS**

S. No.	Abb.	Detail	S. No.	Abb.	Detail
1.	Adapahi	Degraded Forest Areas used for vanya silkworm host plantation	15.	MT	Metric Ton
2.	AS	Administrative Sanction	16.	MoT	Ministry of Textiles
3.	CBO	Community Based Organization	17.	NPK	Nitrogen, Phosphorus and Potash
4.	CDP	Catalytic Development Programme	18.	PO	Programme Officer
5.	CSB	Central Silk Board	19.	PRI	Pachayat Raj Institutions
6.	Chawki	Young Age Silk Worm	20.	R&D	Research and Development
7.	CSB	Central Silk Board	21.	SC	Scheduled Caste
8.	DOS	Department of Sericulture	22.	Seri Culture	Rearing of Silkworm for silkworm for cocoon production
9.	DPC	District Programme Coordinator	23.	SHG	Self Help Group
10.	GP	Gram Panchayat	24.	SoR	Schedule of Rates
11.	Host Plant	Silkworm Host Plants utilized for silkworm feeding	25.	SHG	Self Help Group
12.	HYV	High Yielding Varieties	26.	ST	Scheduled Tribe
13.	MGNREGA	Mahatma Gandhi National Rural Employment Guarantee Act	27.	TOT	Transfer of Technology
14.	MGNREGS	Mahatma Gandhi National Rural Employment Guarantee Scheme	28.	Vanya Silk	Tasar, Oak Tasar, Eri and Muga silks



**Guidelines for taking up host plants of Silkworms through Convergence of  
MGNREGS with the Schemes of Catalytic Development Programme of the  
Ministry of Textiles**

**1. CONTEXT:**

**1.1 Sericulture as source of livelihood and an important tool for rural employment:** Sericulture and Silk industry in India contributes significantly towards rural employment, poverty alleviation, women empowerment, equity redistribution, resulting in improving national economy. The sericulture sector employs about 7.5 Million rural people, mostly from the vulnerable sections of society. Total raw silk production at the end of XI Plan stood at 23,060 MT registering an annual growth of about 5% despite several adverse factors, including large scale uprooting due to urbanization and international price volatility during this period. Central Silk Board (CSB), a statutory body under the Ministry of Textiles, is a Science and Technology (S&T) based Research and Development organization and its main thrust has been on Research based activities. The Board is covering areas like Research and Technology Development, Seed maintenance & production and, development of Sericulture & Silk Industry. India is the only country practicing all 4 varieties of commercially exploitable silk viz Mulberry, Tasar, Eri and Muga silk. Sericulture is practiced in around 26 states including North East. It is one of the important income generating activities (IGA) for rural populace. Silk host plants being perennial trees provide green cover, prevent soil erosion and contribute towards water conservation. Vanya Silk host plantation helps in afforestation besides providing livelihood opportunity to Tribal people inhabiting the degraded forest areas. It is therefore proposed to increase the area under silk host plantation.

**1.2 Schemes of Central Silk Board, Ministry of Textiles:** Ministry of Textiles has taken up a Centrally Sponsored Scheme viz Catalytic Development Programme (CDP), through Central Silk Board with the aim of synergizing and disseminating technologies, innovations developed by its R&D units of Central Silk Board by incentivising investments among the stakeholders to improved technology to enhance production, productivity and quality of silk. CDP has been an effective vehicle for transfer of technology (ToT) to the field. CDP being implemented since the IX Plan has been able to sustain and strengthen the sericulture activities in the country, which consists of various components and sub-components under Mulberry and Vanya silk (Tropical & Oak Tasar, Muga and Eri) covering seed, cocoon and post cocoon sectors. This programme of the Ministry of Textiles is implemented through the (CSB), in collaboration with the State Governments (Departments of Sericulture) aims to generate employment opportunities, particularly in the rural and tribal areas. Through focused approach in sericulture development catalyzed by Govt. of India's support, there has been quantifiable progress resulting in improvement of economic conditions of the stakeholders including ethnic groups. The CDP scheme is being continued during XII Plan and the components under the CDP envisaged to cover the following major areas:

- (a) Development and expansion of host plant,
- (b) Strengthening and creation of silkworm seed multiplication infrastructure,

- (c) Development of farm infrastructure like Rearing House, Chawki Rearing to adult silkworm rearing
- (d) Development of post-cocoon infrastructure, up-gradation of reeling and processing technologies in silk,
- (e) Skill development / Enterprise Development Programme, and
- (f) Support for publicity, study / consultancy, crop insurance, health insurance etc.

All above programmes under CDP have been approved by the Govt. of India.

**1.3 MGNREGA:** One of the primary objectives of Mahatma Gandhi National Rural Employment Act (MGNREGA) is to provide employment to rural households on demand and in the process generate durable assets that lead to sustainable livelihood for the poor family.

## 2. COMMON OBJECTIVES OF MGNREGS AND CDP SCHEME OF CSB:

**2.1** The schemes operated by Central Silk Board, Ministry of Textiles, Govt. of India, under the Catalytic Development Programme have similar objectives as MGNREGA. These are:

- a) To promote systematic plantations of host plants of mulberry, tasar, mug and eri silkworms as an economically viable, asset creation activity through convergence of MGNREGS and onward integration also with the CDP of the Ministry of Textiles, Govt. of India.
- b) Providing livelihood through creation of durable assets and employment generation for the most vulnerable people in rural sector so as to enable their socio-economic security.
- c) Ensuring higher land productivity, soil protection and improved water conservation.
- d) Empowerment of the socially disadvantaged section of the society, especially women, Scheduled Castes (SCs), Scheduled Tribes (STs), Small and Marginal Farmers
- e) To identify an alternative source of labour force to plantation activities in sericulture sector, which is labour intensive during the initial years? The trained job card holders, who are ready to work over and above the assured 100 days under MGNREGS, could be utilized to meet the additional job requirement in this sector.
- f) Capacity building of stakeholders through decentralized, participatory planning and convergence of activities of various agencies.
- g) Conversion of barren and cultivable waste lands to productive use



### 3. SCOPE OF CONVERGENCE:

**3.1** Almost all the works involved in sericulture including silkworm host plantation are labour intensive. It is estimated that around 11 man years of employment is generated by 1 Ha of silkworm host plantation along the entire silk production chain covering all the activities till final product. The activities in the silk production chain cover development and maintenance of host plantation, silkworm rearing, silk reeling, silk twisting and silk weaving. Among all activities of the silk production chain, cultivation of host plants of silkworms and its maintenance is a critical agriculture oriented labour intensive land based activity. Hence, to start with development of systematic plantations of the host plants of the mulberry and vanya silkworms and their maintenance till they become productive are being proposed as convergence initiatives under MGNREGA.

**3.2** Convergence between MGNREGA and Catalytic Development Programme (CDP) of the Ministry of Textiles is mutually beneficial, as it has the advantage of guaranteed resource support which ensures transparency and accountability. Untied funds and the provision of decentralized planning enables comprehensive need based planning at grassroots with pivotal role by the Panchayati Raj Institutions (PRIs). The convergence planning can achieve multiple goals in the development of Sericulture Industry by maximizing returns from the investments, promotion of public-private community partnership, sustainable development, by pooling of resources both human and capital transfer of technologies evolved from R&D institutes of CSB and value addition through provision of backward and forward linkages from CDP schemes of MoT.

### 4. ACTIVITIES PROPOSED TO BE COVERED UNDER MGNREGS:

**4.1. *Clearing/Land development:*** The identified land has to be developed adequately by removing remnants (roots etc.) of pre-existed vegetation and clearing for host plants with recommended varieties and ideal spacing. These works are essential while converting uncultivable and barren/fallow lands into cultivable lands through one time land development.

**4.2. *Pit digging and transplantation:*** Recommended size of pits and spacing would be followed in the different sectors. Pit digging will be taken up and 4-5 months old seedlings of high yielding varieties of food plants will be planted by filling pits with recommended dose of fertilizer/ farm yarn manure/ vermi -compost and also with the top soil for better establishment.

**4.3. *Soil treatments:*** While intercultural operations as per schedule will be taken up, soil treatments viz., staggered/ contour trenches based on the slope of land to facilitate soil and water conservation, cattle proof trench to avoid grazing of food plants and raising bund plants, in case of vanya silk sector are proposed. Wherever applicable, a cover/ bund crop would be raised and maintained to keep the bund across the cattle proof trench to reduce eroding effect.

**4.4. Watering, Basin formation and Weeding:** While mulberry is intensively cultivated crop with regular intercultural practices and irrigation, in case of host plants of vanya silkworms, zero tillage is practiced after initial establishment. However during the year of plantation, watering is done to avoid mortality of the plants and maintenance (for 3 years after plantation) by forming basins around the plant and weeding is taken up to conserve rain water. This includes removal undesirable side branches during the early stages.

**4.5. Manure application:** Recommended doses of farm yard manure/ compost/ bio-fertilizer depending on the host plants are applied during the initial periods of establishment. For example, 400gms of vermin-compost during the initial establishment period and 75:25:25kg of N: P: K is applied during 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year of plantation in case of host plants of tropical tasar silkworms.

**4.6. Plant protection/ Disease management:** Prophylactic (preventive) and curative measures against insects, pests and diseases as per the recommendations of the respective research institute would be taken up as per schedule for healthy growth of food plants. Priority shall be given to biological control measures viz., neem based insecticides/ pesticides etc.

**4.7. Inputs and farm implements:** Required number of seedlings/ saplings of host plants, plant protective chemicals/ biological agents, manures/ fertilizers etc., are provided so that the food plants become productive within the given schedule.

**4.8** System of cultivation and package of practices in host plant cultivation will vary from sector to sector. While intensive cultivation practices are followed in case of mulberry, uncultivated lands / adapahi land, waste land in forest fringes etc. are utilized for vanya silk sectors.

## **5. ACTIVITIES PROPOSED THROUGH CENTRAL SILK BOARD SCHEMES AND BENEFICIARIES CONTRIBUTION:**

**5.1 Host Plantation,** Silkworm rearing, cocoon harvesting and all post cocoon activities till marketing will be supported through Catalytic Development Schemes of the Ministry of Textiles through Central Silk Board. The beneficiaries will contribute towards part of labour and material inputs. Activity-wise typical exercise on details of quantity, cost, labour, material, source of funds etc. are provided at Annexure-IIA to VI for mulberry, tropical and temperate tasar, muga and eri food plants, respectively. The table also indicate breakup of activities that can be supported through MGNREGS, CDP scheme and Beneficiary contribution (labour, material, source of funding etc.) The beneficiaries will also contribute in various components relating to silkworm rearing, cocoon harvesting as per the norms of CDP approved by the Govt. of India.



## 6. DESIGN, SPECIFICATION AND COST NORMS:

6.1. The designs/ specifications adhere to scientific stipulations of the Central Silk Board, Ministry of Textiles. Standard unit size of individual holding is 1.0 acre in case of all sectors except tropical and temperate tasar sector, which is 1.0 ha. However, it can range from 0.5 acre to 1 ha. in case of mulberry, muga and eri sectors and 0.7 to 2.0 ha. in case of tropical and temperate tasar sectors. Species/ varieties of host plants, spacing, manure/ fertilizer dose, system of cultivation are indicated in the typical exercise at Annexures- IIA to VI, which shall be adhered to. While soil treatments, numbers per unit area with respect to staggered and cattle proof trench are provided for part of the unit area, will vary according to the slope of the land and also extent covered in each cluster. All the package of practices recommended by the CSB research institutes would be followed for raising and maintenance of food plants. Modifications from the guidelines of CDP schemes depending on geo-climatic conditions and planting material will be permitted only with the concurrence of CSB.

6.2. The designs / specifications are as per the approved norms of Central Silk Board for 5 Seri Zones (Southern Zone, Central & Western Zone, Eastern Zone, North Eastern Zone and Northern Zone). The planting material recommended by the Central Silk Board for different zones should be utilized by the concerned state. Plantation system and spacing should be as per the technology package recommended by Central Silk Board for different Seri-zones.

6.3. Cost norms: For MGNREGS, cost will be estimated on the basis of MGNREGA wages / SoRs. For remaining parts, cost norms prescribed by Central Silk Board will be applicable. Time and motion studies will be done.

## 7. MODE OF IMPLEMENTATION:

### 7.1 *Planning:*

- (a) Activity of raising and maintenance of host plants of silkworms will be taken up in pockets where the soil/ climatic conditions are congenial/suitable for the host plants and as well as rearing silkworms. For inclusive/integrated development of those rural pockets, GP-wise projects on development and maintenance of host plants of silkworms will be prepared by the concerned State Sericulture Departments based on the feasibility study/survey.
- (b) All the works/activities required for inclusive development of the project area through initiating plantation development programmes for rearing silkworms will be shown clearly in terms of size of area/quantum of work, estimated cost and the schemes under which these are to be covered so as to ensure that all the required works / activities have been proposed and there is no duplicity.
- (c) Cluster wise Projects with list of beneficiaries from a village/ ward or Gram Panchayat, desirous of joining the cluster will be prepared by Implementing Agency & will be put up in the Gram Sabha, wherever it is functional, for approval and inclusion in shelf of projects.

- (d) Local Unit of Department of Sericulture will communicate to Gram Panchayats (GPs) the plantation development plan approved by the Department of Sericulture, in consultation with CSB for their respective GPs. The plan will include the cluster with the name of beneficiaries. The GPs, following approval of the Gram Sabhas, will finalize the clusters with the list of individual beneficiaries within the given numbers and will also include this as part of approved shelf of projects under MGNREGA.
- (e) Administrative sanction/Financial sanction (AS/FS) for works of sericulture plantation development under MGNREGA approved by Gram Sabha will be issued cluster-wise by the DPC, MGNREGA and for CDP support in plantation and onward integration for cocoon production through the state sericulture department concerned.
- (f) A typical exercise on the break-up of the particulars/activities is at **Annexure -IIA to VI.**

### 7.2. Estimates:

- (a) After the cluster wise Projects are given Administrative Sanction and Financial Sanction (AS/FS), the Technical Assistant/Engineer concerned of the Panchayat/Line department (State Sericulture Department) will prepare estimates of the works as per the design/specification of Central Silk Board and MGNREGA wage rates/ SoR prevailing in the area.
- (b) Technical Sanction (TS) will be issued by the concerned official as per norms/power delegated for MGNREGA works.

### 7.3. Execution:

- (a) On receipt of a request from cluster/SHG/CBO/Society/District Officer, Sericulture Department through the GP, the PO will issue muster rolls.
- (b) Every cluster (preferably within the GP) will be treated as independent work and muster roll issued accordingly.
- (c) The format for these musters may be modified so as to manage this work efficiently. However, minimum features as prescribed in the Schedules of MGNREGA will need to be incorporated.
- (d) An Extension Assistant may be deployed for every cluster proposed to be taken up in a Gram Panchayat as a mate. The designated mate will be responsible for the following:
- i. Maintain muster roll for the cluster in the GP assigned to him /her.
  - ii. Record attendance of unskilled labour.
  - iii. Ensure that the activities carried out are as per the design specified by the Central Silk Board and will certify to that effect.



- iv. Upon completion of the weekly work in the cluster, the mate will sign the muster roll for attendance and for the quantity of work done and hand it over to the Junior Engineer/Technical Assistant for further processing.
- v. The measurement of the work will be made weekly by the concerned Technical Assistant/ Junior Engineer as per the norms under MGNREGA. The entries of measurement with assessment of work will be entered in measurement book as well in the muster roll.
- vi. **Check measurements will be done by the Sericulture Extension Officers. The Assistant Directors of Sericulture will also undertake random sample checking.**

## 8. ROLE OF DIFFERENT AGENCIES:

**8.1. Role of Central Silk Board:** Being the Nodal Agency for sericulture promotion, CSB shall extend required technical support through technologies/package of practices evolved by its research institutes for project implementation, deciding the clusters and modifications/ mid-term corrections. CSB also ensure the building onward linkages for effective utilization of these plantations under MGNREGS for cocoon production so as to enhance income of the farmers by extending relevant CDP schemes through the state sericulture departments concerned till cocoon production.

**8.2. State Sericulture Department (DOS):** DOS through its District Offices will identify the suitable land and the cluster of beneficiaries, who are eligible under MGNREGA for work on their private land, after assessing the technical feasibility. Besides, DOS shall actively involve in beneficiary identification wherever necessary, training of stake holders, extension support, joint verification wherever possible. The job card holders will be trained in plantation related activities to familiarize with the works besides taking the opinion leaders to the areas where best practices are adopted. Moreover, holding of the cluster together under SHG will be facilitated and technical perfection of the works will be monitored. The plantations covered under this convergence also will be brought under the approved plan schemes of CDP and allowable financial support for onward integration for cocoon production & free technical support will be given to the beneficiaries. DOS shall arrange for engaging the required number of para extension workers at grass root and cluster level, in view of the number of families to be covered, terrain and coverage of the project area, issues pertaining to land procurement, pre-requisites to take up soil treatments/ plantation and creation of infrastructure activities under the Project, so that envisaged project objectives and output can be achieved.

**8.3. Field Implementing Agency (FIA):** Gram Panchayat will be the implementing agency. Implementing agency will maintain all the records and effect payment. The requirement of additional labour by the beneficiary groups will also be met by diverting the same workers, on completion of their annually allotted 100 days' job. This will enable additional employment and income generation to job card holders.



**9. NON- NEGOTIABLE IN WORK EXECUTION:**

9.1 Only job Card holders will be employed for the unskilled part of work. It is necessary that the beneficiary also a job card holder and work on muster as unskilled labour on his / her plantation.

9.2 Muster Rolls will be maintained on the worksite by the implementing agency concerned with copies in the Gram Panchayat.

9.3 Wage payments will be done only through banks/post office accounts unless exempted by MoRD.

9.4 No contractor and labour displacement machine will be deployed.

9.5 The cost of material component of projects including the wages of the mate, skilled and semi-skilled workers under the scheme shall not exceed forty percent of the total project cost.

9.6 Record of employment generated under convergence will be maintained separately.

9.7 The lands of SC/ST/BPL will be taken on priority under the project. Once works on lands of SC/ST/BPL are saturated in a GP, works on land of SF/MF may be considered in accordance with Para 2.i) of Ministry of Rural Development circular No. 11060/3/2009-NREGA, dated 1<sup>st</sup> September 2009.

9.8 Every cluster will be treated as a MGNREGA project for the purpose of:

- a) Giving a unique work ID
- b) Entry in Works and Asset register
- c) Social Audit by Gram Sabha
- d) Evaluation by Vigilance and Monitoring Committee

9.9 Each GP will maintain a complete list of all clusters with member beneficiaries with their job card number and activities related to plantation development carried out by the clusters under MGNREGA or otherwise. In the asset register, the breakup of the assistance/subsidy utilized from CDP / other sources, beneficiary's own contribution, and the expenditure from MGNREGA will be shown separately.

**10. EXPENDITURE TO BE INCURRED FROM MGNREGS AND SCHEMES OF CDP:****From MGNREGS:**

10.1. As there is no cost norms under MGNREGA for sericulture plantation activities, cost norms proposed by the Central Silk Board will be followed. The implementing agency will use funds from MGNREGA as detailed in the typical exercise at **Annexure - IIA to VI** (however, it will vary place to place as per local specific MGNREGS wage rates/SoR) for developing a unit of plantation.

- a) Funds from MGNREGA to an individual beneficiary of a cluster will be restricted up to 1.00 ha in case of tasar and 1 acre in case of mulberry, muga and eri sectors.
- b) The cost incurred in providing mate will be booked under material component as per the provision of the MGNREGA and will be apportioned to the individual units under the activity, accordingly at GP level.
- c) It will be ensured that the total material costs including wages of the mate of all works in a Gram Panchayat, in a financial year does not exceed 40%.

**10.2. The payment of unskilled labour/ mate worked under MGNREGA will be made only after measurement is taken, assessment of work made with respect to estimate/task, duly entered in Muster roll and Measurement Book by the Technical Assistant/ Junior Engineer and checked by the Sericulture Extension Officer/ Assistant Director of Sericulture.**

**10.3.** The Project Officer, MGNREGA will generate the payment order and will ensure payment to the beneficiaries within fifteen days.

**From CDP:**

**10.4.** Remaining activities as stated in the typical exercise at Annexure-IIA to VI and to be carried out for cocoon production would be met from the Central Silk Board under CDP assistance and beneficiary own contribution or from other sources mobilized by the State Sericulture Departments concerned.

**11. MONITORING & REPORTING:**

**11.1** Details of each work taken up under these convergence guidelines and all incidental details such as attendance, payment etc from MGNREGA funds will be entered in NREGASoft just as for any other work. These works will fall in the category IV works and should be entered accordingly.

**11.2** While filling up details of the work in "Work Module", it should be ensured that all the details are filled correctly. Care need to be taken to mention area in specified unit dimension (acre/hectare). In addition all details in respect of convergence such as (a) scheme other than MGNREGS from which funds are being utilized and (b) the amount.

**11.3** For the amount spent from MGNREGA, the accounts will be maintained in the formats, currently being used for works done under MGNREGA.

**11.4** NREGASoft will also provide a field for entering further details such as survival, health of the plant etc. at the end of each financial year. Formats for these fields will be worked out jointly by CSB and MoRD and communicated to the field functionaries.

**11.5** As huge sums area being invested on these works, it is necessary that the progress is jointly monitored by the Officials of CSB, DOS of State Govt., DPC and PO. Departments of Sericulture of the State Govt. will designate Nodal Officers for this purpose.



**12. GENERAL GUIDELINES:**

**12.1.** Farmers who have developed silkworm host plants under MGNREGS will get support under CDP for all forward activities relating to silk production. CDP support for silkworm rearing will be provided to those farmers having plantation at bearing stage as per CDP norms. The State Sericulture Departments will ensure to provide other support under CDP to the Farmers who have raised plantation under MGNREGA.

**12.2.** The plantation will be developed as per the space and system of plantation suggested under CDP. Only improved host plant variety recommended by CSB/State Sericulture Departments will be utilized for new plantation.

**12.3.** The planting and other materials will be procured by the beneficiary as per the rate fixed by CSB/ DOS from the nurseries/ farms/ seri-input centres in coordination with the State Sericulture Departments. The Field Officers of the Department of Sericulture will ensure supply of good quality planting material from the identified Kissan Nurseries, Sericulture farms.

**13. COVERAGE:**

To begin with silkworm host plantation development will be undertaken in selected clusters in the following states:

Sl. No.	Sector	States
1	Mulberry Bush Plantation	Karnataka, Andhra Pradesh, Tamilnadu, Kerala, West Bengal, Maharashtra, Madhya Pradesh, Uttar Pradesh, Odisha, Bihar, Assam, Tripura, Mizoram and Manipur
2	Mulberry Tree Plantation	J&K, Himachal Pradesh, Uttarakhand
3	Tropical Tasar Plantation	Jharkhand, Bihar, Chhattisgarh, Madhya Pradesh, Odisha, West Bengal, Uttar Pradesh, Maharashtra, Andhra Pradesh,
4	Temperate Tasar Plantation	Manipur, Mizoram, J&k, Uttarakhand, Himachal Pradesh
5	Eri Plantation	Assam, Nagaland, Manipur, Arunachal Pradesh, Meghalaya
6	Muga Plantation	Assam, Meghalaya, Nagaland, Mizoram, West Bengal

Based on the feedback, the scheme will be scaled up in coming years.

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Annexure - I**Convergence Modalities of MGNREGS and CDP Schemes of Ministry of Textiles**

Sl. No	Content	MGNREGS	Schemes under Catalytic Development Programme
A	B	C	D
1	Objective	i) To enhance livelihood security in rural areas by providing at least 100 days of guaranteed wage employment in a financial year to every household whose adult members volunteer to do unskilled manual work ii) Creation of durable assets and strengthening the livelihood resource base of the rural poor	1) Enhance and improve seed infrastructure for quality seed augmentation, 2) To support conversion facilities, provide market linkages for better value realization & generic promotion and 3) To improve income generation and social security of sericulture farmers
2	Funding/subsidy	i) 100% on unskilled labour and ii) 75% of the cost of material and wages for skilled and semiskilled workers	Rationalization in funding pattern to get matching share (not less than 25% as recommended by the Chaturvedi Committee) of the participating states for better physical coverage to achieve the target set for XII Plan. However, in respect of Special Status States the status quo (higher central share) will be maintained wherein the state share is retained at 10%.
3	Unit cost/cost norms	Nil	Unit costs vary with the activity, sector and zone depending on seed, cocoon and post-cocoon sectors.
4	Area coverage	Entire country	Karnataka, Andhra Pradesh, Tamilnadu, Kerala, Maharashtra, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Punjab, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Rajasthan, West Bengal, Bihar, Jharkhand, Orissa, Assam (Including BTC & other Autonomous Councils), Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim & Tripura
5	Institutional frame-work	i) Central Employment Gurantee Council, ii) State Employment Gurantee Council, iii) District Panchayat, iv) Intermediate Panchayat and v) Village Panchayat, Gramsabha	(i) Apex Monitoring Committee (CSB Secretariat level) (ii) Zonal Committee (Zonal level) (iii) Project Monitoring Committee (State level)
6	Convergence	Convergence of NREGA funds with funds from other sources for the creation of durable assets is permissible	CDP schemes for forward integration till cocoon production are available. Besides, support extended under CDP schemes during the earlier Plan periods can also be linked for better income augmentation.

## ANNEX-II A

CONVERGENCE OF MGNREGS UNDER MORD AND CDP SCHEMES OF CENTRAL SILK BOARD, MINISTRY OF  
COST NORMS FOR DEVELOPMENT OF **MULBERRY BUSH PLANTATION** AND MAINTENANCE RELATED ACTIVITIES

Pg-1 of 2

## I DEVELOPMENT OF MULBERRY BUSH PLANTATION

(1)	(2) Particulars / Activities	(3) Units	(4) Qty.(Vol of work)/ Number	(5) SoR for the cluster/Wage 149 Task	(6) Labour component (Unskilled)		(7) Material component		(10) Total Amount (RS.)	(8) Source of fund		
					(6) No. of mandays / Qty	(7) Amount (Rs)	(8) No	(9) Amount (Rs)		(11) MGNREGS	(12) CSB	(13) Benef.
	<b>A. Labour Component</b>											
1	Land preparation	m2	4000	250	16	2384			2384	2384	0	0
2	FYM application (2 times a year)	Kg.	8000	1000	8	1192			1192	1192	0	0
3	Making ridges & furrows (3 times a year)	m2	12000	133	90	13410			13410	13410	0	0
4	Planting of saplings	No.	5445	272	20	2980			2980	2980	0	0
5	Digging and weeding (4 times in a year)	m2	16000	200	80	11920			11920	8940	0	2980
6	Ploughing for intercultural operations (2 times a year)	m2	8000	800	10	1490			1490	1490	0	0
7	Irrigation (40 times a year)	m2	160000	4000	40	5960			5960	5960	0	0
8	Fertilizer application (3 times a year)	m2	12000	667	18	2682			2682	2682	0	0
	<b>Sub-total</b>					<b>42018</b>			<b>42018</b>	<b>39038</b>	<b>0</b>	<b>2980</b>
	<b>B. Material Cost</b>											
1	Farm Yard Mannure @ Rs.0.80 per kg.	Kg.					8000	6400	6400	3200	1600	1600
2	<b>Mulberry Saplings @Rs.1.50 per sapling</b>	No.					6000	9000	9000	<b>4500</b>	<b>2250</b>	<b>2250</b>
3	Tools/ appliances	lumpsum						1400	1400	0	0	1400
4	Bio fertiliser	lumpsum						3730	3730	3730	0	0
	<b>Sub-total</b>							<b>20530</b>	<b>20530</b>	<b>11430</b>	<b>3850</b>	<b>5250</b>
	<b>Total</b>					<b>282</b>	<b>42018</b>	<b>20530</b>	<b>62548</b>	<b>50468</b>	<b>3850</b>	<b>8230</b>
	<b>% OF LABOUR AND MATERIAL COMPONENTS</b>						<b>67.18</b>	<b>32.82</b>				

\* Source of Wage Rates used: Andhra Pradesh 2013

## Annexure-II A Pg:2 of 2

## II MAINTENANCE OF PLANTATION (Per acre/year) FOR 2ND AND 3RD YEAR

<b>A. Labour Component</b>												
1	FYM application (2 times a year)	kg.	8000	1000	8	1192		1192	1192	0	0	
2	Ploughing in alternate crops (5 crops/year)	m2	10000	833	12	1788		1788	1788	0	0	
3	Making ridges and furrows in alternate crops (5 crops / year)	m2	10000	133	75	11175		11175	11175	0	0	
4	Digging and weeding in alternate crops (5 crops / year)	m2	10000	400	25	3725		3725	2794	0	931	
5	Application of fertilisers (5 crops a year)	m2	20000	667	30	4470		4470	4470	0	0	
6	Irrigation (40 times a year)	m2	160000	4000	40	5960		5960	5960	0	0	
7	Pruning & dressing of the plants (5 times a year)	m2	20000	2000	10	1490		1490	1490	0	0	
<b>Sub-total</b>						200	29800	29800	28869	0	931	
<b>B. Material Cost</b>												
1	Farm Yard Mannure @ Rs.0.80 per kg.	Kg					8000	6400	6400	3200	1600	1600
2	Bio fertiliser	lumpsum						12200	12200	12200	0	0
3	Tools/ appliances	lumpsum						2000	2000	0	0	2000
<b>Sub-total</b>								20600	20600	15400	1600	3600
<b>Total (A+B)</b>							29800	20600	50400	44269	1600	4531
% OF LABOUR AND MATERIAL COMPONENTS							59.13	40.87				
<b>Total for 2 years</b>							59600	41200	100800	88538	3200	9062
<b>GRAND TOTAL (I +II)</b>						802	101618	61730	163348	139006	7050	17292
Source of wage rates used for estimation: Wage rate under MGNREGS, Andhra Pradesh - 2013							62.21	37.79	%share	85.10	4.32	10.59

Quantity/number of various inputs and task norms worked out based on mandays requirement indicated at column nos. (4) & (5) are as per

Note: CSB norms

MGNREGS	139006	85.10	M-42230 (30%), L-96776 (70%)
Central Silk Board	7050	4.32	
Beneficiary Contribution	17293	10.59	
<b>Total</b>	<b>163348</b>		



## ANNEX- II B

CONVERGENCE OF MGNREGS UNDER MORD AND CDP SCHEMES OF CENTRAL SILK BOARD, MINISTRY OF TEXTILES  
 COST NORMS FOR DEVELOPMENT OF **MULBERRY TREE PLANTATION** AND MAINTENANCE RELATED ACTIVITIES  
 ESTABLISHMENT OF MULBERRY TREE PLANTATION FOR FIRST TWO YEARS

Pg: 1 of 2

(1)	Particulars / Activities	Units	Qty.(Vol of work)/ Number	SoR for the cluster/W 145 Task	Labour component (Unskilled)		Material component		Total Amount (RS.)	Source of fund			
					No. of mandays / Qty	Amount (Rs)	No	Amount (Rs)		MGNREGS	CSB	Benef.	
													(6)
<b>A. Labour Component</b>													
1	Land preparation	m2	4000	250	16	2320			2320	2320	0	0	
2	Pit digging (1.5 ft x 1.5 ft x 1.5 ft-3.375cft) - 600 Nos.	m3	56.7	5	12	1740			1740	1740	0	0	
3	Planting of saplings	Nos.	600	55	11	1595			1595	1595	0	0	
4	Fertilizer application (3 times a year)	Nos.	24000	1333	18	2610			2610	2610	0	0	
7	Irrigation 24 times (12 times/year)	m2	96000	2000	48	6960			6960	6960	0	0	
8	Maintenance (Pruning/digging/weeding etc) [4 operations a year]	m2	16000	38	424	61480			61480	46110	0	15370	
	<b>Sub-total</b>				<b>529</b>	<b>76705</b>			<b>76705</b>	<b>61335</b>	<b>0</b>	<b>15370</b>	
<b>B. Material Cost</b>													
1	Farm Yard Mannure @ Rs.1000 per MT	MT					8	8000	8000	4000	2000	2000	
2	<b>Mulberry Saplings @Rs.10 per sapling</b>	Nos,					600	6000	6000	<b>3000</b>	<b>1500</b>	<b>1500</b>	
3	Tools/ appliances	lumpsum						1400	1400	0	0	1400	
4	Bio fertiliser	lumpsum						2970	2970	2970	0	0	
	<b>Sub-total</b>							<b>18370</b>	<b>18370</b>	<b>9970</b>	<b>3500</b>	<b>4900</b>	
	<b>Total</b>							<b>76705</b>	<b>18370</b>	<b>95075</b>	<b>71305</b>	<b>3500</b>	<b>20270</b>
	<b>% OF LABOUR AND MATERIAL COMPONENTS</b>												
								80.68	19.32				

\* Source of Wage Rates used: Jammu &amp; Kashmir 2013

## MAINTENANCE OF TREE PLANTATION (Per acre/year) FOR 3rd and 4th YEAR

<b>A. Labour Component</b>											
1	FYM application (2 times a year)	kg.	8000	1000	8	1160		1160	1160	0	0
2	Ploughing in alternate crops (5 crops / year)	m2	10000	833	12	1740		1740	1740	0	0
3	Maintenance (Pruning/digging/weeding etc) [4 operations a year]	m2	16000	160	100	14500		14500	10875	0	3625
5	Application of fertilisers (3 operations a year)	m2	12000	2000	6	870		870	870	0	0
6	Irrigation (12 times a year)	m2	48000	1000	48	6960		6960	6960	0	0
<b>Sub-total</b>					<b>174</b>	<b>25230</b>		<b>25230</b>	<b>21605</b>	<b>0</b>	<b>3625</b>
<b>B. Material Cost</b>											
1	Farm Yard Mannure @ Rs.1000 per MT.	MT				8	8000	8000	4000	2000	2000
2	Bio fertiliser	lumpsum					5000	5000	5000	0	0
3	Tools/ appliances	lumpsum					2000	2000	0	0	2000
<b>Sub-total</b>							<b>15000</b>	<b>15000</b>	<b>9000</b>	<b>2000</b>	<b>4000</b>
<b>Total (A+B)</b>						<b>25230</b>	<b>15000</b>	<b>40230</b>	<b>30605</b>	<b>2000</b>	<b>7625</b>
<b>% OF LABOUR AND MATERIAL COMPONENTS</b>						<b>62.71</b>	<b>37.29</b>				
<b>Total for 2 years</b>						<b>50460</b>	<b>30000</b>	<b>80460</b>	<b>61210</b>	<b>4000</b>	<b>15250</b>
<b>GRAND TOTAL (I+II)</b>					<b>877</b>	<b>127165</b>	<b>48370</b>	<b>175535</b>	<b>132515</b>	<b>7500</b>	<b>35520</b>
Source of wage rates used for estimation: Wage rate under MGNREGS, J & K - 2013						<b>72.44</b>	<b>27.56</b>	<b>%share</b>	<b>75.49</b>	<b>4.27</b>	<b>20.24</b>

Note: Quantity/number of various inputs and task norms worked out based on mandays requirement indicated at column nos. (4) & (5) are as per CSB

MGNREGS	132515	75.49	M-27970 (21%), L- 104545 (79%)
Central Silk Board	7500	4.27	
Beneficiary Contribution	35520	20.24	
<b>Total</b>	<b>175535</b>		

## Annexure-III

CONVERGENCE OF MGNREGS UNDER MORD AND CDP SCHEMES OF CENTRAL SILK BOARD, MINISTRY OF TEXTILES  
 COST NORMS FOR DEVELOPMENT OF TROPICAL TASAR HOST PLANTATION AND MAINTENANCE RELATED ACTIVITIES (1

1 OF 2

## DEVELOPMENT OF TASAR HOST PLANTATION

(1)	Particulars / Activities	Units	Qty.(Vol of work)/ Number	SoR for the cluster/Wage Task 149	Labour component (Unskilled)		Material component		Total Amount (RS.)	Source of fund		
					No. of mandays / Qty	Amount (Rs)	No	Amount (Rs)		MGNREGS	CSB	Benef.
<b>A. Labour Component</b>												
1	Land clearing	m2	10000	250	40	5960			5960	5960	0	0
2	Soil conservation											
	a. Staggered trench (2ft x 1.5ft x 1ft=3cft)-300 nos. of 6ft length	m3	151.2	1.7	89	13252			13252	13252	0	0
	b. Cattle Proof trench (5ft x3ft x3 ft=45cft)-250ft	m3	315	1.48	213	31713			31713	31713	0	0
3	Pit digging (1.5ftx1.5ftx1ft=2.25cft)-1852 no.	m3	117	1.35	86	12878			12878	12878	0	0
4	Transplantation	No.	1852	33	56	8344			8344	8344	0	0
5	Watering of plants	No.	1852	100	19	2759			2759	2759	0	0
6	Basin formation and weeding	No.	1852	50	37	5519			5519	4139	0	1380
7	Anti-termite/ anti-fungal biocontrol treatment	No.	1852	200	9	1380			1380	1380	0	0
8	Cultivation of bund crop	m2	7500	500	15	1500			1500	1125	0	375
9	Application of FYM/ compost	No.	1852	200	9	1380			1380	1380	0	0
	<b>Sub-total</b>				<b>573</b>	<b>84685</b>			<b>84685</b>	<b>82930</b>	<b>0</b>	<b>1755</b>
<b>B. Material Cost</b>												
1	Cost of Asan and Arjuna seedlings including 10% mortality @ Rs.3/-	No.					2,037	6111	6111	3056	1528	1528
2	Cost of vermicompost @ 400 gm/ plant@ Rs. 5/- per kg	kg.					741	3704	3704	1852	926	926
3	Anti-termite biocontrol treatment	lumpsum						500	500	250	125	125
4	Transportation	lumpsum						750	750	750	0	0
5	Cost of farm implements	lumpsum						2500	2500	0	0	2500
6	Seed Material for Intercropping/bund crop	lumpsum						1000	1000	750	0	250
7	Farm yarn manure/ compost@ Rs.8/- per cft	cft					370	2963	2963	1482	741	741
	<b>Sub-total</b>							<b>14565</b>	<b>17528.2</b>	<b>8139</b>	<b>3320</b>	<b>6070</b>
	<b>Total</b>						<b>84685</b>	<b>14565</b>	<b>102213</b>	<b>91069</b>	<b>3320</b>	<b>7824</b>
	<b>% OF LABOUR AND MATERIAL COMPONENTS</b>						<b>82.85</b>	<b>14.25</b>				

\* Source of Wage Rate: Andhra Pradesh 2013



Annexure-III Pg-2 of 2												
(ii)	<b>MAINTENANCE OF TASAR HOST PLANTATION (Per ha/year) - FOR THREE YEARS</b>											
<b>A. Labour Component</b>												
1	Anti-termite/ anti-fungal biocontrol treatment	No.	1852	200	9	1380		1380	1380	0	0	
2	Spraying of neem based insecticide & Leaf Surface Microbes	No.	1852	150	12	1840		1840	1840	0	0	
3	Application of vermicompost & manure	No.	1852	150	12	1840		1840	1840	0	0	
4	Basin formation and weeding	No.	1852	50	37	5519		5518.96	4139	0	1380	
<b>Sub-total</b>					<b>71</b>	<b>10578</b>		<b>10578</b>	<b>9198</b>	<b>0</b>	<b>1380</b>	
<b>B. Material Cost</b>												
1	Cost of vermicompost @ 400 gm/ plant	kg.					741	3704	3704	3704	0	0
2	Anti-termite/ anti-fungal biocontrol treatment	lumpsum						500	500	250	250	0
3	Cost of neem based insecticide & Leaf Surface Microbes	lumpsum						600	600	300	300	0
4	Cost of farmyard manure/compost @ Rs.8/- per cft	cft					370.4	2963	2963	1482	741	741
<b>Sub-total</b>								<b>7767</b>	<b>7767</b>	<b>5736</b>	<b>1291</b>	<b>741</b>
<b>Total</b>						<b>10578</b>		<b>7767</b>	<b>18345.2</b>	<b>14934</b>	<b>1291</b>	<b>2121</b>
% OF LABOUR AND MATERIAL COMPONENTS						57.66		42.34				
<b>Total for 3 years</b>						<b>31734</b>		<b>23301.6</b>	<b>55035.6</b>	<b>44802</b>	<b>3872</b>	<b>6362</b>
<b>GRAND TOTAL</b>						<b>786</b>	<b>116419</b>	<b>37866.6</b>	<b>157248</b>	<b>135871</b>	<b>7192</b>	<b>14183</b>
Source of wage rates used for estimation: Wage rate under MGNREGS, Andhra Pradesh - 2013												
						<b>74.03</b>		<b>24.08</b>	<b>%share</b>	<b>86.41</b>	<b>4.57</b>	<b>9.02</b>

Note: 1. Quantity/number of various inputs and task norms worked out based on mandays requirement indicated at column nos. (4) & (5) are as per CSB

2. Vary depending on the total extent covered under the cluster, SOR for various activities in different states, soil type, soil gradient etc.

3. Soil is considered as hard soil for the purpose of pit digging. Spacing-10x6'

4. Cattleproof trench is provided for an extent of 10 ha. of plantation at each place, which may vary depending on the shape of the land.

5. Maintenance of plantation is provided for three years i.e., till it becomes productive for silkworm rearing. Later the farmers will maintain the plantations themselves.

MGNREGS	135871	86.41	M-25347 (19%),	L-110524 (81%)
Central Silk Board	7192	4.57		
Beneficiary Contribution	14186	9.02		
<b>Total</b>	<b>157248</b>			

## Annexure-IV

CONVERGENCE OF MGNREGS UNDER MORD AND CDP SCHEMES OF CENTRAL SILK BOARD, MINISTRY OF TEXTILES  
 COST NORMS FOR DEVELOPMENT OF **TEMPERATE TASAR HOST PLANTATION** AND MAINTENANCE RELATED ACTIVITIES

Pg-1 of 2

(i) DEVELOPMENT OF OAK TASAR ( <i>Quercus serrata</i> ) HOST PLANTATION (Unit=1 Hectare)													
(1)	Particulars / Activities	Units	Qty.(Vol of work)/ Number	SoR for the cluster/Wage Task 153	Labour component (Unskilled)		Material component		Total Amount (RS.)	Source of fund			
					No. of mandays/ Ctrv	Amount (Rs)	No	Amount (Rs)		MGNREGS	CSB	Benef.	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
<b>A.</b>	<b>Labour Component</b>												
1	Land clearing	m2	10000	250	40	6120			6120	6120	0	0	
2	Soil conservation												
	a. Staggered trench (2 ft x 1.5 ft x 1 ft=3cft) of 6' length -300 no./ha	m3	151.2	1.7	89	13608			13608	13608	0	0	
	b. Cattle Proof trench (5 ft x3 ft x3 ft=45cft)-250 ft	m3	315	1.48	213	32564			32564	32564	0	0	
3	Pit digging (1ftx1ftx1ft=1cft)-3090 no.	m3	87	1.35	64	9806			9806	9806	0	0	
4	Transplantation	No.	3090	74	42	6426			6426	6426	0	0	
5	Watering of plants	No.	3090	100	31	4728			4728	4728	0	0	
6	Application of organic fertilizers	No.	3090	200	15	2364			2364	2364	0	0	
7	Basin formation and weeding	No.	3090	50	62	9455			9455	7092	0	2364	
8	Anti-termite/ antifungal bio-control treatment	No.	3090	200	15	2364			2364	2364	0	0	
9	Cultivation of bund crop	m2	7500	500	15	1500			1500	1125	0	375	
	<b>Sub-total</b>				<b>586</b>	<b>88935</b>			<b>88935</b>	<b>86196</b>	<b>0</b>	<b>2739</b>	
<b>B.</b>	<b>Material Cost</b>												
1	Cost of <i>Quercus serrata</i> seedlings including 10% mortality @ Rs.3/-	No.					3,399	10197	10197	5099	2549	2549	
2	Cost of vermicompost @ 400 gm/ plant (kg.)	kg.					1236	6180	6180	3090	1545	1545	
3	Anti-termite/ anti-fungal bio-products	lumpsum						500	500	250	125	125	
4	Transportation of seedlings	lumpsum						750	750	750	0	0	
5	Cost of farm implements	lumpsum						2500	2500	0	0	2500	
6	Cost of organic FYM Compost ( 0.20 cft/ plant)	cft					618	4944	4944	2472	1236	1236	
7	Seed Material for Intercropping/bund crop	lumpsum						1000	1000	750	0	250	
	<b>Sub-total</b>							<b>26071</b>	<b>26071</b>	<b>12411</b>	<b>5455</b>	<b>8205</b>	
	<b>Total</b>							<b>88935</b>	<b>26071</b>	<b>115006</b>	<b>98607</b>	<b>5455</b>	<b>10944</b>
	<b>LABOUR AND MATERIAL COMPONENTS</b>	%						<b>77.33</b>	<b>22.67</b>				

\* Source of Wage Rates used: Manipur 2013



Annexure-IV Pg- 2 OF 2

(ii) MAINTENANCE OF OAK TASAR HOST PLANTATION (Per ha/year)- FOR THREE YEARS												
<b>A. Labour Component</b>												
1	Anti-termite/ anti-fungal bio-control treatment	No.	3090	200	15	2364		2364	2364	0	0	
2	Application of vermicompost & organic fertilisers	No.	3090	150	21	3152		3152	3152	0	0	
3	Basin formation and weeding (2 times)	No.	3090	40	77	11819		11819	8864	0	2955	
<b>Sub-total</b>					<b>113</b>	<b>17335</b>		<b>17335</b>	<b>14380</b>	<b>0</b>	<b>2955</b>	
<b>B. Material Cost</b>												
1	Cost of vermicompost @ 400 gm/ plant	kg.	3090			1236	6180	6180	6180	0	0	
2	Anti-termite/ anti-fungal bio-products	lumpsum					1000	1000	500	500	0	
3	Cost of organic FYM/ Compost ( 0.20 cft/ plant)	cft				618	4944	4944	2472	2472	0	
<b>Sub-total</b>							<b>12124</b>	<b>12124</b>	<b>9152</b>	<b>2972</b>	<b>0</b>	
<b>Total</b>						<b>17335</b>	<b>12124</b>	<b>29459</b>	<b>23532</b>	<b>2972</b>	<b>2955</b>	
<b>LABOUR AND MATERIAL COMPONENTS</b>		<b>%</b>				<b>58.84</b>	<b>41.16</b>					
<b>Total for 3 years</b>						<b>52005</b>	<b>36372</b>	<b>88377</b>	<b>70596</b>	<b>8916</b>	<b>8864</b>	
<b>GRAND TOTAL</b>						<b>926</b>	<b>140939</b>	<b>62443</b>	<b>203382</b>	<b>169203</b>	<b>14371</b>	<b>19808</b>
<b>LABOUR AND MATERIAL COMPONENTS</b>		<b>%</b>				<b>69.30</b>	<b>30.70</b>	<b>%share</b>	<b>83.19</b>	<b>7.07</b>	<b>9.74</b>	

Note: 1. Quantity/number of various inputs and task norms worked out based on mandays requirement indicated at column nos. (4) & (5) are as per CSB

2. Source of Wage rates used for estimation: Wage rate under MGNREGS, Manipur - 2013

3. Qty of work & SORs shall vary depending on the total extent covered under the cluster, soil type, soil gradient from state to state etc. SORs -2013 will be taken into account for implementation

4. Spacing in plantation -6'x6' (3090 plants/ha)

5. Soil is considered as hard soil for the purpose of pit digging

6. Cattleproof trench is provided on pro-rata basis for an extent of 10 ha. of plantation at each place, which may vary depending on the shape of the

7. Maintenance cost will be provided for 3 years till plantations reaches to bearing stage for silkworm rearings.

MGNREGS	169203	83.19	M-39867 (23.5%)	L-129336 (76.5%)
Central Silk Board	14371	7.07		
Beneficiary Contribution	19809	9.74		
<b>Total</b>	<b>203382</b>			

## Annexure-V

## CONVERGENCE OF MGNREGS UNDER MORD AND CDP SCHEMES OF CENTRAL SILK BOARD, MINISTRY OF TEXTILES

## COST NORMS FOR DEVELOPMENT OF MUGA HOST PLANTATION AND MAINTENANCE RELATED ACTIVITIES

## (i) DEVELOPMENT OF MUGA (SOM -Perseas ( Machilus bombycina) AND SOALU- Litesea polyantha) HOST PLANTATION (Unit= 1 Acre)

(1)	Particulars / Activities	Units	Qty.(Vol of work)/ Number	SoR for the cluster/Wage Task 152	Labour component (Unskilled)		Material component		Total Amount (RS.)	Source of fund				
					No. of mandays / Qty	Amount (Rs)	No	Amount (Rs)		MGNREGS	CSB	Benef.		
													(6)	(7)
									243	243	0	0		
<b>A.</b>	<b>Labour Component</b>													
1	Land clearing	m2	400	250	1.6	243.2								
2	Soil conservation				36	5408			5408	5408	0	0		
	a. Staggered trench (2 ft x 1.5 ft x 1 ft)=3cft of 6' length -120 no /acre	m3	60	1.7					12941	12941	0	0		
	b. Cattle Proof trench (3ft x3ft x5 ft=45cft)-100 ft	m3	126	1.48	85	12941			1419	1419	0	0		
3	Pit digging (1 ftx1 ftx1 ft=cft)-450 no.	m3	13	1.35	9	1419			912	912	0	0		
4	Transplantation	No.	450	75	6	912			684	684	0	0		
5	Watering of plants	No.	450	100	5	684			342	342	0	0		
6	Application of organic fertilizers	No.	450	200	2	342			1368	1026	0	342		
7	Basin formation and weeding	No.	450	50	9	1368			684	684	0	0		
8	Anti-termitel/ antifungal bio-control treatment	No.	450	100	4.5	684			600	450	0	150		
9	Cultivation of bund crop	m2	3000	500	6	600			24600	24108	0	492		
	<b>Sub-total</b>				<b>164</b>	<b>24600</b>								
<b>B.</b>	<b>Material Cost</b>													
1	Cost of Som / Soalu seedlings including 10% mortality @ Rs.3/-	No.							500	1500	750	375	375	
2	Cost of vermicompost @ 400 gm/ plant (kg.)	kg.							180	900	450	225	225	
3	Anti-termitel/ anti-fungal bio-products	lumpsum							500	500	500	0	0	
4	Transportation of seedlings	lumpsum							2500	2500	0	0	2500	
5	Cost of farm implements	lumpsum							225	1800	900	450	450	
6	Cost of organic FYM/ Compost ( 0.50 cft/ plant)	CFT							500	500	375	0	125	
7	Seed Material for bund crop/ Intercrop	lumpsum							8200	8200	3225	1175	3800	
	<b>Sub-total</b>								24600	8200	32800	27333	1175	4292
	<b>Total</b>								75.00	25.00				
	<b>% OF LABOUR AND MATERIAL COMPONENTS</b>													

\* Source of Wage Rates used: Assam 2013



(ii) MAINTENANCE OF MUGA HOST PLANTATION (Per acre/year)- FOR THREE YEARS

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<b>A. Labour Component</b>											
1	Anti-termites/ antifungal bio-control treatment	No.	450	100	4.5	684		684	684	0	0
2	Application of organic fertilizers	No.	450	100	4.5	684		684	684	0	0
3	Basin formation and weeding (2 times)	No.	450	25	18	2736		2736	2052	0	684
<b>Sub-total</b>					<b>27</b>	<b>4104</b>		<b>4104</b>	<b>3420</b>	<b>0</b>	<b>684</b>
<b>B. Material Cost</b>											
1	Cost of vermicompost @ 400 gm/ plant	kg.				180	900	900	900	0	0
2	Anti-termites/ anti-fungal treatment/ insecticides	lumpsum					500	500	250	250	0
3	Cost of organic FYM/ Compost ( 0.5 cft/ plant)	kg.				225	1800	1800	900	900	0
<b>Sub-total</b>							<b>3200</b>	<b>3200</b>	<b>2050</b>	<b>1150</b>	<b>0</b>
<b>Total</b>							<b>4104</b>	<b>3200</b>	<b>7304</b>	<b>5470</b>	<b>1150</b>
<b>% OF LABOUR AND MATERIAL COMPONENTS</b>							<b>56.19</b>	<b>43.81</b>			
<b>Total for 3 years</b>							<b>12312</b>	<b>9600</b>	<b>21912</b>	<b>16410</b>	<b>3450</b>
<b>GRAND TOTAL</b>							<b>245</b>	<b>36912</b>	<b>17800</b>	<b>54712</b>	<b>43743</b>
<b>LABOUR AND MATERIAL COMPONENTS</b>			<b>%</b>				<b>67.47</b>	<b>32.53</b>	<b>%share</b>	<b>79.95</b>	<b>8.45</b>
									<b>11.60</b>		

Note: 1. Quantity/number of various inputs and task norms worked out based on mandays requirement indicated at column nos. (4) & (5) are as per CSB

2. Source of Wage rates used for estimation: Wage rate under MGNREGS, Assam - 2013

3. Qty of work & SORs shall vary depending on the total extent covered under the cluster, soil type, soil gradient from state to state etc. SORs -

4. Spacing in plantation -10'x10' (450 plants/ha)

5. Soil is considered as hard soil for the purpose of pit digging

6. Cattleproof trench is provided on pro-rata basis for an extent of 10 acre. of plantation at each place, which may vary depending on the shape

7. Maintenance cost will be provided for 3 years till plantations reaches to bearing stage for silkworm rearings.

MGNREGS	43743	79.95	M-9375 (21.5%), L-34368 (78.5%)
Central Silk Board	4625	8.45	
Beneficiary Contribution	6344	11.60	
<b>Total</b>	<b>54712</b>		

## Annexure-VI

CONVERGENCE OF MGNREGS UNDER MORD AND CDP SCHEMES OF CENTRAL SILK BOARD, MINISTRY OF TEXTILES  
 COST NORMS FOR DEVELOPMENT OF **ERI PERENNIAL HOST PLANTATION** AND MAINTENANCE RELATED ACTIVITIES

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(i) DEVELOPMENT OF ERI ( KESSERU-Heteropanax fragrans) HOST PLANTATION (Unit= 1 Acre)										Source of fund		
(1)	Particulars / Activities	Units	Qty.(Vol of work)/ Number	SoR for the cluster/Wa ge Task 152	Labour component (Unskilled)		Material component		Total Amount (RS.)	MGNREGS	CSB	Benef.
					No. of mandays / Qty	Amount (Rs)	No	Amount (Rs)				
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
<b>A.</b>	<b>Labour Component</b>							243	243	0	0	
1	Land clearing	m2	400	250	1.6	243.2						
2	Soil conservation							5408	5408	0	0	
	a. Staggered trench (2 ft x1.5 ft x1 ft=3cft) of 6' length -120 no /ha	m3	60.48	1.7	36	5408						
	b. Cattle Proof trench (5ft x3ft x3 ft=45cft)-100 ft	m3	126	1.48	85	12941		12941	12941	0	0	
3	Pit digging (1 ft x1ft x1 ft=1cft)-450 no.	m3	13	1.35	9	1419		1419	1419	0	0	
4	Transplantation	m3	13	2.07	6	925		925	925	0	0	
5	Watering of plants	m3	13	2.07	6	925		925	925	0	0	
6	Application of organic fertilizers	No.	450	100	5	684		684	684	0	0	
7	Basin formation and weeding	No.	450	200	2	342		342	342	0	0	
8	Anti-termite/ antifungal bio-control treatment	No.	450	50	9	1368		1368	1026	0	342	
9	Cultivation of bund crop	No.	450	100	4.5	684		684	684	0	0	
		m2	3000	500	6	600		600	450	0	150	
	<b>Sub-total</b>				<b>164</b>	<b>24613</b>		<b>24613</b>	<b>24121</b>	<b>0</b>	<b>492</b>	
<b>B.</b>	<b>Material Cost</b>						500	1500	1500	750	375	375
1	Cost of Kessuru seedlings incl 10% mortality @ Rs.3	No.						900	900	450	225	225
2	Cost of vermicompost @ 400 gm/ plant (kg.)	kg.					180	900	500	250	125	125
3	Anti-termite/ anti-fungal bio-products	lumpsum						500	500	500	0	0
4	Transportation of seedlings	lumpsum						2500	2500	0	0	2500
5	Cost of farm implements	lumpsum						1800	1800	900	450	450
6	Cost of organic FYM/ Compost ( 0.50 cft/ plant)	CFT					225					
7	Seed Material for bund crop/intercrop	lumpsum						500	500	375	0	125
	<b>Sub-total</b>						<b>24613</b>	<b>8200</b>	<b>32813</b>	<b>27346</b>	<b>1175</b>	<b>4292</b>
	<b>Total</b>						75.01	24.99				
	LABOUR AND MATERIAL COMPONENTS	%										

\* Source of Wage Rates used: Assam 2013



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(ii)	MAINTENANCE OF ERI PERENNIAL HOST PLANTATION (Per acre/year)- FOR THREE YEARS										
<b>A. Labour Component</b>											
1	Anti-termite/ antifungal bio-control treatment	No.	450	100	4.5	684		684	684	0	0
2	Application of organic fertilizers	No.	450	100	4.5	684		684	684	0	0
3	Basin formation and weeding (2 times)	No.	450	25	18	2736		2736	2052	0	684
	<b>Sub-total</b>				<b>27</b>	<b>4104</b>		<b>4104</b>	<b>3420</b>	<b>0</b>	<b>684</b>
<b>B. Material Cost</b>											
1	Cost of vermicompost @ 400 gm/ plant	kg.				180	900	900	900	0	0
2	Anti-termite/ anti-fungal bio-products	lumpsum					500	500	250	250	0
3	Cost of organic FYM/ Compost ( 0.50 cft/ plant)	kg.				225	1800	1800	900	900	0
	<b>Sub-total</b>						<b>3200</b>	<b>3200</b>	<b>2050</b>	<b>1150</b>	<b>0</b>
	<b>Total</b>					<b>4104</b>	<b>3200</b>	<b>7304</b>	<b>5470</b>	<b>1150</b>	<b>684</b>
	OF LABOUR AND MATERIAL COMPONENTS	%				56.19	43.81				
	<b>Total for 3 years</b>					<b>12312</b>	<b>9600</b>	<b>21912</b>	<b>16410</b>	<b>3450</b>	<b>2052</b>
	<b>GRAND TOTAL</b>				<b>245</b>	<b>36925</b>	<b>17800</b>	<b>54725</b>	<b>43756</b>	<b>4625</b>	<b>6344</b>
	LABOUR AND MATERIAL COMPONENTS	%				67.47	32.53	%share	79.96	8.45	11.59

Note: 1. Quantity/number of various inputs and task norms worked out based on mandays requirement indicated at column nos. (4) & (5) are as per

2. Source of Wage rates used for estimation: Wage rate under MGNREGS, Assam - 2013

3. Qty of work & SORs shall vary depending on the total extent covered under the cluster, soil type, soil gradient from state to state etc. SORs -

4 Spacing in plantation -10'x10' (450 plants/acre)

5. Soil is considered as hard soil for the purpose of pit digging

6. Cattleproof trench is provided on pro-rata basis for an extent of 10 acre. of plantation at each place, which may vary depending on the

7. Maintenance cost will be provided for 3 years till plantations reaches to bearing stage for silkworm rearings.

MGNREGS	43756	79.96	M-9375 (21.5%), L-34381 (78.5%)
Central Silk Board	4625	8.45	
Beneficiary Contribution	6344	11.59	
Total	54725		