

GUIDE LINES FOR IMPLEMENTATION OF INTENSIVE COTTON DEVELOPMENT PROGRAMME (I.C.D.P.) UNDER MM-II OF TECHNOLOGY MISSION ON COTTON DURING THE YEAR 2013-14

Intensive Cotton Development Programme (ICDP), a centrally sponsored scheme of Technology Mission on Cotton (TMC) was launched in February 2000. The objective of ICDP under MM-II of TMC is to increase Cotton production, productivity and improvement of cotton quality in order to meet domestic and export demands of the country. This will also help in the reduction of cost of cultivation and pesticide consumption for enhancing competitiveness in the international market. In order to meet the growing requirement of spinning/ textile mills of the state much emphasis has been given to increase the area and productivity through seed intervention and technology transfer. The following guidelines should be strictly followed while implementing different components of the scheme.

1. Plant Protection

1.1. Farmers' Field School (FFS)

The F.F.S. is fully field oriented participatory and discovery based i.e. "learning by doing". The learning place of F.F.S. is the crop field. Integrated crop Management (ICM) is the major aim of the F.F.S., which includes

- a) Integrated Nutrient Management
- b) Integrated Pest Management
- c) Better agronomic practice
- d) Farm Mechanization.

Principles

- a) Grow a variety / hybrid which has a high yield potential, adoptive to local agro climatic conditions and is of long staple length (i.e.>30 mm.)
- b) Adopt better agronomic practices like deep summer ploughing, line sowing, optimum spacing, timely intercultural practices etc.
- c) Conserve natural enemies.
- d) Conduct regular field observation.
- e) Making farmers ICM experts.

The programme is being conducted in the field from seed to seed, so that the participants can observe and analyse the dynamics of crop ecology through out the crop season. Group field observation will be done weekly.

Characteristics of F.F.S.

Trainees: - 30 farmers from a particular village will participate as trainees.

Criteria for selection of trainees should be as follows.

- a) Must be a cotton cultivator growing the desired hybrid/var.
- b) He should be energetic, physically fit and should be less than 45 years old preferably.
- c) Farmers should be interested in learning ICM, willing to attend the FFS regularly.
- d) Farmer should be literate.
- e) SF/MF/SC/ST and Women farmer should be given preference.

Demonstration plot

- a) 2 Ac. of crop field should be selected. The field should belong to one of the participant trainees.
- b) It should be easily accessible.
- c) Land having facility for critical irrigation should be preferred.
- d) Critical inputs will be supplied out of the allocation under FFS.

Facilitator

The FFS will be conducted under two modes i.e. General Mode and F to FFS mode. Under the general mode FFS will be facilitated by two technically competent facilitators. Scientists from OUAT / Officers of respective district who had undergone Training Of Facilitator (TOF) /SMS (Cotton) / Agronomist / Plant Protection Officer / AAO available with DDA/ DAO/ ADAO and SMS (Cotton) will be selected to work as facilitators. The DDAs of respective ranges will nominate the above officers for the job. The Technical competence is important for IPM skill building i.e. pest and natural enemy identification. The second mode of FFS will be run by Farmers Facilitators.

The facilitator farmer's eligibility is as follows.

- a) He should be preferably be a trainee under orientation training for the farmers facilitators conducted during previous years. Farmers trained under FFS during previous years can also be selected for the purpose.
- b) His educational qualification should be at least 10th Class.
- c) He should be between 35 to 45 years of age.
- d) He should be physically alert, energetic having a pleasing personality.
- e) He should have the motive to learn, acquire and adopt new technology capacity to motivate fellow farmers.
- f) He should not be an active worker of any political party.

The farmers selected under the component will undergo five days orientation training at IMAGE, Bhubaneswar in two batches of forty each before commencement of FFS . They will be trained by experts drawn from the OUAT / KVKs / AICCIP / State department of Agriculture. Provision of training of the farmer trainer will be met out of the financial provision of FFS.

Honorarium of Farmer facilitators shall not be paid directly to them, but will be utilised for their capacity building and training. However, in order to motivate them for taking up technical sessions in the field, they should be selected as scouts under the component "Surveillance and monitoring of diseases and pests" and be engaged for five months on usual payment as per the norm.

Duration:

The FFS lasts for a full crop season covering seed to seed so that the participants can observe and analyse the dynamics of cotton field ecology across the season. There will be 20 training sessions during the period. The first 16 sessions will be weekly and the last 4 sessions will be fortnightly. The time schedule and topics to be covered in each session are as follows: -

Time of Training	Duration	Subject to be dealt
a) June 15 th to July 15 th	4 sessions (Weekly)	Soil testing, Land preparation, Variety selection, seed treatment, Line sowing and INM
b) July 15 th to Aug. 15 th	-do-	Inter cultural practices, IRM based IPM, Water and Weed management
c) Aug. 15 th to Sept. 15 th	-do-	INM and IPM) Sept. 15 th to Oct. 15
d) Sept. 15 th to Oct. 15 th	-do-	-do-
e) Oct 15 th to Dec. 15 th	4 sessions	Post harvest technology & Fibre -
	(Fortnight interval)	quality management.

Method and Approach

- a. Before the starting of the FFS a benchmark survey of the entire village including the 30 participants shall be conducted to know the details of cotton crop grown in that village which includes the area coverage, variety/ hybrid grown, fertilizer and pesticide use, productivity level etc.
- b. A crop calendar for cotton for the village including the demonstration plot should be made after discussing with the farmers.
- c. Proliferation of variety / hybrid should be avoided in the FFS village.
- d. Soil testing of the cotton fields including the demonstration plot should be made and fertilizer application should be made accordingly.
- e. On the beginning of the training session all the trainees should be grouped into four groups and the groups should be maintained till harvest.
- f. The FFS will have a gathering place close to FFS field, where the farmers will be able to gather, make drawings on their field observation, discuss and make presentation etc.
- g. Each session of FFS will last for 4-5 hours and shall run in the morning hours only.
- h. Towards the end of the FFS session a field day shall be conducted where the trainee farmers themselves will use the study plots to explain the ICM on cotton. Other farmers of FFS village, local leaders may be asked to attend the field day. The FFS should have a minimum amount of lecture. Most concept and skills are taught through interaction.
- i. At the end of the FFS an evaluation study on the FFS based on the benchmark study shall be made and reported.

Financial Break Up:

1) F to FFS under General Mode :

1) Honorarium for two facilitators @ Rs. 75.00 per session per facilitator for 20 sessions.		Rs. 3000.00
2). FFS training materials		
a) Approx. Input cost for two Ac. demonstration plot		
i) Chemical fertiliser, 80:40:40kg of NPK per ha. Fertiliser application should be on the basis of soil test report)	Rs. 1700.00	
ii) Bio-Fertilizer (Azotobactor- 2kg, per ac. or Azospirillum- 2kg, per ac.+ Phosphorus solubilising Microbe (PSM) 2kg per ac.)	Rs. 320.00	
iii) Bio-pesticide (Azadirachtin 1500 PPM @ 1 lt. Per demon.)	Rs. 280.00	
iv) Pheromone Trap @ 10 traps per ha.	Rs. 345.00	
v) Bio agent (HNPV) @ 500 LE per ha.	Rs. 825.00	
vi) Arhar seed for interculture	Rs. 60.00	
	Total	Rs. 3530.00
		or
		Rs. 3500.00
b) Training materials i.e. Writing pad & pen	Rs. 500.00	Rs. 4000.00
3. Tea/snacks for trainees & trainers @ Rs. 10 per participants per session – for 20 sessions.		Rs. 6000.00
4. Field day and Misc. Expdt. (Tea snacks for 50 farmers @ Rs. 10 per farmer) Construction of concrete sign Board, POL and others including documentation, & Photograph.		Rs. 4000.00

Total Rs. 17,000.00

NB: 1) The cost of inputs given at point 2(a & b) is indicative and can be interchanged keeping total allocation under the head constant.

2) The chemical fertilizer for the demonstration should be purchased from local OAIC Ltd / MARKFED and Arhar seeds from the Departmental Sale centres. Supply order of other Components like Bio-fertiliser, Pheromonetraps and Bio agents are to be issued by the concerned SMS(Cotton) to the firms approved by SLPC.

II) F to FFS run by Farmer facilitators :

- 1) Orientation training including honorarium of farmer-facilitators **Rs. 3000.00**
- 2). FFS training materials
- a) Approx. Input cost for two Ac. demonstration plot
- i) Chemical fertiliser, 80:40:40kg of NPK
per ha. Fertiliser application should be on the basis
of soil test report) Rs. 1700.00
- ii) Bio-Fertilizer Rs. 320.00
(Azotobactor- 2kg, per ac. or Azospirillum-
2kg, per ac.+ Phosphorus solubilising Microbe
(PSM) 2kg per ac.)
- iii) Bio-pesticide Rs. 280.00
(Azadirachtin 1500 PPM @ 1 lt.
Per demon.)
- iv) Pheromone Trap @ 10 traps per ha. Rs. 345.00
- v) Bio agent (HNPV) @ 500 LE per ha. Rs. 825.00
- vi) Arhar seed for inter cropping Rs. 60.00
- Total Rs. 3530.00
or
Rs. 3500.00
- b) Training materials i.e. Writing pad & pen Rs. 500.00 **Rs. 4000.00**
3. Tea/snacks for trainees & trainers @ Rs. 10 per Participants per session – for 20 sessions. **Rs. 6000.00**
4. Field day and Misc. Expdt. (Tea snacks for 50 farmers @ Rs. 10 per farmer) Construction of concrete sign Board, POL and others including documentation, & Photograph. **Rs. 4000.00**

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2) The chemical fertiliser for the demonstration should be purchased from local OAIC Ltd / MARKFED and Arhar seeds from the Departmental Sale centres . Supply order of other Components like Bio-fertiliser, Pheromonetraps and Bio agents are to be issued by the concerned SMS(Cotton) to the firms approved by SLPC.

Cost structure for training of farmer facilitators for a batch of forty Nos.

Sl.No	Item	Amount in Rs.
1	Teaching aids including the cost of literature @ Rs100/-per farmer	4000.00
2	Fooding (Two meals and two tiffins per day) and accommodation @ Rs. 130 per farmer per day for five days	26000.00
3	Honorarium to resource persons @ Rs. 200 per class for eighteen such classes	3600.00
4	To and fro conveyance as per actual fare in ordinary Express bus	13200.00
5	Daily allowance @ Rs. 50/- per farmer per day for five days	10000.00
6	Miscellaneous	3200.00
	Total	60,000.00

1.2 Season Long Training Of Facilitators (ToF)

Aim: -

- 1) It is a season long training of 120 days with 2-3 small breaks. The prime objective of this training is to create a resource group of master trainers from the departmental field Officers.
- 2) To promote cooperation for cotton IPM among Government , Agril. University, KVKs and NGOs working for rural development.
- 3) To build up participants' confidence for carrying out scientific studies and to develop skills to discover scientific concepts through experimentation.
- 4) To develop skills in organizing and facilitating full season FFS.

Methodology of ToF

- a. Participatory
- b. Field oriented
- c. Need based
- d. Recovery based
- e. Learning by doing.

Facilitators (Master trainer):

Six facilitators (Master Trainers) will be required for organizing each TOF. They will be selected out of the officers who have undergone TOF training.

30 trainees will be selected for the training for each TOF from the Agriculture Deptt. NGOs KVKs and cooperatives.

Technical co-coordinator:

The respective Range Deputy Director of Agriculture will act as the technical coordinator of the training programme.

Demonstration plot

- a) A 2 ha. Crop field should be selected.
- b) It must have assured source of irrigation
- c) It should be easily accessible having a road.

Duration

It will start from the month of July and will continue up to November with 2 to 3 breaks. A total of 120 working days will be devoted for the training leaving aside the small breaks.

Module and method of approach.

The six facilitators (master trainers) of the TOF will meet prior to commencement of TOF and will work out the module and method of approach basing on the local field conditions, requirement and experience of TOF. Such meetings of Master trainers will be convened by the Technical Coordinator (i.e. Range DDA) and the module prepared by them will be sent to the DA&FP (O) for approval.

Selection of Trainees and Trainers.

The detail bio-data of Master Trainers and trainees selected will be sent by the concerned DDA to the Directorate for final approval.

Accommodation:

As it is fully residential training programme, accommodation is to be arranged by the technical coordinator for the trainees and master trainers .

Financial break up

Sl. No	Item	Amount in Rs.
1	Honorarium for technical coordinator @ Rs. 250 x 1 x 120	30000
2	Honorarium for 6 facilitators @ 150 x 120	108000
3	Packet allowance for trainees @ Rs. 50 x 30 x 120	180000
4	Payment for supporting staff @ 80 x 2 x 120	19200
5	Hostel charges @ 40 x 30 x 120	144000
6	Field charges – 2 ha. @ 15000 x 2	30000
7	Food arrangement @ 75 x 40 x 120	360000
8	POL, hiring and minor repairing charges	50000
9	Training materials	20000
10	Honorarium to guest for special topics @ 400 x 20	8000
11	Field orientation programs @ 15000 x 2	30000
12	Study tour for trainees	8000
13	Miscellaneous expenditure	12800
	TOTAL	10,00,000

Funds for the purpose will be placed with Range DDA of the district where the TOF will be conducted.

1.3 Distribution of Pheromone traps.

Pheromone traps are the key components of cotton IPM and are mostly utilised for monitoring the pest's population so that timely actions are taken.

- (a) Assistance will be provided to farmers @ 50% of the cost limited to Rs.300/-per hect.
- (b) 10 Pheromone traps per hect. will be supplied out of which 5 shall be for monitoring Helicoverpa and 5 for Spodoptera with 3 lure per each trap.
- (c) Pheromone trap will be installed at 45 DAS and lure of each trap will be changed at 15 days interval.
- (d) The pheromone traps and lures will be purchased as per the recommendation of the purchase committee.
- (e) The supplying agencies will supply pheromone traps to the concerned DDOs. The DDOs in turn will sell it to the farmers at subsidized rate through Departmental sale centers after receiving permit from AAO. **The concerned range DDAs will facilitate sale of inputs through the Departmental sale centres & ensure collection and deposit of farmers' share within a week of sale.**
- (f) The farmer's share will be remitted to the supplying agencies by the DDOs immediately after sale.
- (g) A certificate to the effect of farmer's share payment to the concerned supplying agencies will be given on the body of the bill.

1.4 Supply of Bio-agents.

Release of bio control agents, parasitoids during 35-65 days after sowing to manage white fly population, release of chrysoperla Predator at 30-60 days to control nymph and adult population and release of boll worm parasitoids, Trichogramma, Trichoderma and microbial insecticides such as HaNPV and Btk for the management of eggs are beneficial to pest prone crop like cotton. Apart from this use of bio pesticides like Neem oil, Neemderivatives, Sesamum oil, Karanj oil has proved effective against American bollworms. To acquaint the cultivators with the bio agents, assistance will be provided @ 50% of the cost limited to Rs. 900/- per ha. Bio agents like NPV; Btk along with Neem formulation will be supplied under this component. Selections of brands will be as per the recommendation of the purchase committee.

2. Supply of water saving devices (Sprinkler set).

In order to enhance cotton area under irrigation and to improve water use efficiency assistance will be provided to the farmers for installation of sprinkler irrigation system in farmers' field .The procedure for administering subsidy and implementation of this component is as follows:

- a) Assistance available under this component will be 33% of the cost limited to Rs.10,000/- per set for general category farmers and 50% of the cost limited to Rs.15,000/- per set for ST/SC/SF/MF/Women farmers.
- b) The sprinklers of only BIS mark as approved by the SLTC will be supplied to the farmers by the supplying agencies.
- c) The farmer is free to make his own choice of make, model, size and brand out of the approved brands. The farmer will apply to the SMS (Cotton) in the prescribed application form and deposit the required farmers' share in his office.
- d) The DDO will place orders to the concerned supplier on the basis of application and farmers share for supply and installation.
- e) The supplier on receiving the order shall supply and install the system in the Farmers' field.
- f) The installation will be verified by the DDO/person authorized by him; on getting the farmers satisfaction certificate, installation certificate by AAO/AO/VAW, performance and quality certificate by A.A.E. concerned, challans and bills, the DDO shall draw the subsidy and release the same to the party along with farmers' share.

3. Human Resources Development

State level training of Extension workers.

- (a) ADAO/SMS/AAO/A.O/V.A.W of cotton growing areas will be trained on latest technology on cotton.
- (b) Training assistance will be provided @ Rs.15, 000.00 per training for
- (c) 30 participants for 2 days.
- (d) Training module for extension workers will be finalized by DA&FP.
- (e) Training will be organized by concerned RITE. The venue and date will be finalized by DA&FP (O).
- (f) RITEs should prepare and provide study materials to all participants.
- (g) Cost structure for each training programme is as follows.

Sl. No	Particulars	Amount (Rs)
(i)	Honorarium to the resource persons (10 persons@ Rs.400/-)	4000
(ii)	Training kits and material to 30 participants (@ Rs. 75/-)	2250
(iii)	Stationery / audio-visual aids field units (Vehicles to hire)	1000
(iv)	Field visit (hiring of vehicles)	1750
(v)	Refreshment (40 persons including resource persons @ Rs.50/- per meal /per person, two lunch& one dinner	6000
	TOTAL	15000

Every report-indicating place of training, date of training, resource persons attended, major topics covered in the trainings will be prepared by RITE soon after completion of training and submitted to DA&FP, Odisha.

4. FLD ON PRODUCTION TECHNOLOGY

FLD on production technology will be conducted for transfer of modern / improved cotton production technology to the farmers .

b) Demonstration of integrated nutrient management, use of Bio fertilizer, Bio pesticide, water management, intercropping are very useful for the farmers to increase the yield and reduce the cost of production significantly .

- a) It is also a feed back for the cotton scientist from the farmers and also helps in rapid spreading of technology.
- b) For conducting FLD on production technology the concerned SMS (cotton) will function as nodal officer.
- c) The cost of FLD on production technology is Rs. 2000/- per Ac. out of which Rs. 1400/- will be used for essential inputs for demonstration and the rest Rs. 600/- will be utilized for POL , hiring of vehicles, Kisan Melas and printed materials , and demonstration boards etc.

FINANAICIAL BREAK UP OF FLD ON PRODUCTION TECHNOLOGY FOR ONE AC.

1) Seed Cost (to be borne by the farmers)	
2) Fertilizer (80:40:40) application should on the . basis of soil test report)	Rs. 800.00
3) Bio Fertiliser (4 kg per Acre @ 2kg each of Azotobacter &PSM)	Rs. 160.00
4) Bio pesticide, Aza diractin 1500 PPM/500ml. /Acre.	Rs. 80.00
5) Pheromonetrap and lures	Rs. 145.00
6) Bio Agent (HNPV) 200 LE	Rs. 175.00
7) Arhar seed for intercropping	Rs. 40.00
8) POL hiring of vehicles, Kisan Mela /printed materials / demonstration board.	Rs. 600.00
TOTAL	<u>Rs.2000.00</u>

5. Other Components

5.1 Contingencies

A) Exposure visit within the state.

Cotton is mainly grown in seven districts namely I) Bolangir ii) Kalahandi iii) Nuapada iv) Rayagada v) Koraput vi) Ganjam and vii) Gajapati with great diversity in farming practices . For example the farmers of Kalahandi and Bolangir adopt IPM practices scrupulously but the Rayagada farmers are oblivious to IPM practice and use pesticide indiscriminately. However the Rayagada farmers are ahead of other districts as far as the agronomic practices like deep summer ploughing, line sowing, weeding and other intercultural operations are concerned. Ganjam is the upcoming cotton district.

- 1) Keeping in view the above facts, exposure visit of farmers inside the state is planned as below:

<u>Name of the dist. exposure visit</u>	<u>No. of visit</u>	<u>Destination of the</u>
1. Ganjam , Gajapati	1	Kalahandi / Rayagada
2. Kalahandi, Nuapada	1	Rayagada
3. Rayagada, Koraput	1	Kalahandi / Bolangir
4. Bolangir	1	Kalahandi / Rayagada.

- 2) The detail visit plan should be chalked out by S.M.S(Cotton) in consultation with the SMS (Cotton) of the districts to be visited.
- 3) Farmers visiting Kalahandi must visit AICCIP, Bhawanipatna
- 4) The exposure visit should be conducted during the month of August and Sept. when the crop is in its prime growth.
- 5) Only cotton farmers should be selected , farmers who have already availed of the facility previously should not be selected again.
- 6) A group shall constitute of 20 farmers and two guide officers in consultation with the concerned Rang DDAs.
- 7) Each farmer has to pay Rs. 10/- only towards application fees. The application fees so collected should be deposited in the Treasury as miscellaneous receipt in favour of DA&FP(O). The application form is given at *Annexure – III(a)*
- 8) A maximum amount of Rs. 750/- will be spent per farmer per visit. The financial breakup is as follows:
 - i. Maximum expenditure on conveyance per farmer Rs. 350.00
 - ii. Daily allowance @ Rs. 75/- per day for 4 days Rs. 300.00
 - iii. Misc. expenditure Rs.100.00Total Rs. 750.00
- 9) The daily allowance to the farmer cannot be changed under any circumstances. However, interchange of expenditure on bus fare and misc. expenditure can be made with the approval of DA&FP (O)
- 10) Funds will be placed with SMS (Cotton) for the purpose.
- 11) A total amount of Rs. 60,000/- will be spent for the purpose.

B) Exposure visit outside the state

20 farmers, 5 extension workers and two guide officers shall constitute one group for the exposure visit to out side the State to gather knowledge in improved scientific Cotton production Technology. JDA (Information) will organise the visit. Funds will be placed with JDA(information) for the purpose.

- (a) The SMSs (Cotton) will select the Cotton farmers and send the list to JDA (Inf) through concerned range DDAs.
- (b) Each of the farmers selected should be in age group of 18 to 50 years.
- (c) Each farmer has to pay Rs. 50/- only as application fee. The application form should be submitted in prescribed proforma as per *Annexure-III (b)*. The amount so collected will be deposited into the treasury as misc. receipt in favour of DA& FP, Orissa.
- (d) Selected farmers will have to deposit Rs. 200/- (Rupees two hundred) only towards caution money at the time of submission of application form. If the selected farmers fail to join the exposure visit, the caution money will be forfeited to Government.
- (e) The farmers are required to be well informed about the visit programme and provision of funds under the programme.
- (f) There will be two guide officers kept in each group. The concerned Range DDA will select one guide officer & the second guide officer will be nominated by DA&FP(O). The DA&FP(O) will send proposal to Agriculture Department for sanction of journey of these two guide officers. While sending the above proposal, details of proposed programme along with place of visit should be intimated to Agriculture Department by the concerned Range DDAs. Proposal for sanction of their journey from the government is to be obtained by the DDA before commencement of the visit.
- (g) The farmers who have been selected for outside the state exposure visits on any other scheme during previous years shall not be selected.

Cost Structure for the exposure visit (per participant): -

Sl.No.	Particulars	Amount (Rs.)
(i)	Bus fare from village to dispersal center and back	Rs. 300/-
(ii)	To and fro train fare per farmer	Rs.1000/-
(iii)	Daily allowance @ Rs. 100/- for 8 days	Rs. 800/-
(iv)	Conveyance and accommodation in the visiting state	Rs. 800/-
(v)	Local conveyance and arrangement	Rs. 100/-
	TOTAL	Rs. 3000.00

C) Expenditure on POL, Traveling allowance, Maintenance / hiring charges of vehicle, preparation & Purchase of training aids, Purchase of computers & accessories, wages of drivers where there is no driver, conveyance and accommodation of resource personnel's for training, expenses related to SALMOT including honorarium for its members etc. can be made out of contingencies. While making different purchases all formalities shall be maintained.

D) One Xerox Machine is proposed to be installed in the Cotton Section of Directorate.

E) Storage godowns for storage of Agricultural machineries at SMS (Cotton) level are proposed to be constructed.

5.2 Electronic print media: -

Printing of Booklets / leaflets/ pamphlets etc for distribution to farmers, sponsoring of AIR/ Door Darshan programmes; purchase of LCD projectors, FAX machines, Camcorder etc. will be taken up under this component depending upon the availability of funds to facilitate smooth monitoring and documentation of the scheme.

The DA&FP, Odisha will finalise the distribution of funds under the component keeping in view the practical necessities.

5.3 New Intervention.

a) Farmers' awareness campaign on fibre quality management: -

The quality of Odisha cotton in terms of staple length, micronaire and strength is one of the best in India but contamination at and after harvest reduces the price of seed cotton. In order to supply contamination free quality cotton to the market farmers need to be made aware about the quality management of cotton fibres. This awareness campaign shall be organised during September / October.

Rs.10, 000/- has been provided for each awareness campaign as per the cost structure given below.

Sl. No.	Particulars	Amount (Rs.)
(i)	Allowance for 100 participants @ Rs.30/-	3000
(ii)	Fooding for 100 participants @ Rs.30/-	3000
(iii)	Honorarium for guest lecture @ Rs.300/-	1200
(iv)	Printed literature & training material	2000
(v)	POL & Misc	800
	Total	10000

The DDOs can increase number of training programme to double by limiting the expenditure to Rs.5000/- per campaign if needed. Local distributors, Cotton Traders, RMC and CCI should also be involved in the training and requested to co-operate.

Farmer's Training: -

Farmers training is an important activity for upgrading knowledge of the farmers to promote agricultural development by enlightening the farmers regarding series of skills and latest package involved in crop production.

- a) In each training programme 30 farmers including women farmers and farm labours will be trained for one day . The cost will be Rs. 5000/- per day for each training.
- b) It must be held at the beginning of the crop season.
- c) Working lunch at the cost of not exceeding Rs. 50/- per farmers per day should be
- d) arranged besides each farmers should be paid Rs.50/- per day in cash as allowance.
- e) The location of the training should be in the available place near the cotton field.
- f) Trainers from RRTTS , KVKs and departmental Officers will impart the training.
- g) Oriya leaflet should be supplied to the farmer trainees.
- h) The following course module should be followed during the training.
 - I. Importance and methods of soil testing.
 - II. Improved varieties / hybrids and their characteristics.
 - III. Land preparation, seed treatment, sowing time, spacing, seed rate, plant population, interculture practices, intercropping etc.
 - IV. Fertiliser and nutrient management, water management.
 - V. Use of growth regulators in cotton
 - VI. Integrated pest and diseases management.
 - VII. Harvesting and post harvesting technology.
 - VIII. Marketing.
 - IX. Interaction with the farmers on other aspects relating to cotton cultivation.
- i) The concerned SMS cotton will prepare the action plan for conducting farmer training alongwith the selection of the trainers . The concerned DDA will monitor this and ensure timely conduct of the farmers training programme.

- j) On completion of the training brief report indicating the detail aspect of the training programme should be sent to DA&FP(O) .

The cost structure for organization of farmers training is detailed below.

a) working lunch @ Rs. 50/- per farmers for 30 farmers per day .	Rs. 1,500.00
b) Allowance @ Rs. 50/- per day per farmer for 30 farmers.	Rs. 1,500.00
c) Training materials for trainees @ Rs.15/- for 30 trainees	Rs. 450.00
d) Misc. Contingencies for arrangemrnt training place ,banner ,public address System , photograph etc.	Rs. 550.00
e) Honorarium for (5 trainers)	<u>Rs. 1,000.00</u>
TOTAL	<u>Rs. 5,000.00</u>

GENERAL

- I) Sprinklers sets can be supplied by OAIC or approved distributors.
- II) While implementing the scheme it should be ensured that benefit should flow to the SC/ST farmers in proportion.
- III) SF/MF/Women farmers should be given preference and accommodated as far as possible.
- IV) One farmer having received benefit under one component can also be benefited out of another component.
- V) While implementing the scheme the village approach should be preferred. In few selected villages many components can be implemented so that all round development in Cotton Production of that village can be achieved.
- VI) MPR on the scheme in the prescribed format should be sent to this Directorate before 5th of every month.
- VII) The physical target under each component can be enhanced keeping the financial target intact.
