

# Farmer FIRST Programme

**PROJECT PROGRESS REPORT (2016-17)**

## Title of the Project

**“Socio-economic upliftment of tribal farmers through suitable agricultural enterprises integration in rice fallow pulse cropping system - A farmer participatory approach”**



**ICAR - National Institute of Biotic Stress Management**

Indian Council of Agricultural Research

Baronda, Raipur, Chhattisgarh - 493 225

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# Farmer FIRST Programme

## PROJECT PROGRESS REPORT (2016-17)

A. Background information:		
1	Name of Centre	ICAR - National Institute of Biotic Stress Management Baronda, Raipur, Chhattisgarh - 493 225
2	Name of PI	Dr. P. Mooventhan
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4	Title of FFP Project	<b>“Socio-economic upliftment of tribal farmers through suitable agricultural enterprises integration in rice fallow pulse cropping system - A farmer participatory approach”</b>
5	Site Committee Meetings held: (Proceedings and action taken report to be attached in Annexure I)	Yes, enclosed as Annexure - I
6	Institute Advisory Committee meetings held ((Proceedings and action taken report to be attached in Annexure II)	Yes, enclosed as Annexure - II
7	Changes in Project Team, if any, with reasons:	No

## 8. Coverage of Farmer FIRST Programme (FFP)

Module	Intervention	Villages covered	Area covered (ha)/ Animal (No.)	Number of Households covered
<b>I. Crop based module</b>	-	-	-	-
<b>II. Livestock based module</b>	Goat farming established with the introduction of <i>Sirohi</i> , <i>Jamnapari</i> and <i>Barbari</i> breeds.	5	83 Sirohi - 32 Jamnapari - 40 Barbari - 11	83
<b>III. Enterprise based module</b>	Oyster mushroom production technology	4	-	20
<b>IV. Horticulture based module</b>	Nutritional Home Gardening	5	-	24
	Introduction of vegetable seed kit from IIHR	5	-	12
<b>IV. NRM based module</b>	Low cost <i>Azolla</i> production	5	5 units	5
	Eco-friendly crop protection technologies such as Pheromone traps and <i>Trichogramma</i>	5	-	10

# फार्मर फर्स्ट कार्यक्रम Farmer FIRST Programme (FFP)



भाकृअनुप- राष्ट्रीय जैविक स्ट्रेस प्रबंधन संस्थान, बरौंडा, रायपुर (छ.ग.)  
ICAR- National Institute of Biotic Stress Management, Baronda, Raipur (C.G.)



**B. Technical Progress:**

**Component - I: Enhancing Farmer - Scientist Interface**

- **Details of capacity building/HRD interventions (trainings, visits, workshops, interfaces, extension activities etc.) conducted for farmer-scientist interface.**
- **Farmers sensitization programmes organized at cluster of villages under Farmers FIRST Programme (FFP).**



- **Organized a two days workshop under Farmer FIRST Programme during 18 and 19<sup>th</sup> January 2017 under the Chairmanship of Dr. S. Prabhu Kumar, Former Director of ATARI, Zone I & Zone VIII.**

Two days workshop on Farmer FIRST Programme was held on 18 and 19<sup>th</sup> January 2017 at National Institute of Biotic Stress Management, Raipur, Chhattisgarh under the Chairmanship of Dr. S. Prabhu Kumar, Former Director of ATARI, Zone I. Ludhiana, Punjab and ATARI, Zone VIII, Bangalore, Karnataka. Dr. Jagdish Kumar, Director (Acting), explained the genesis of the project and appreciated the efforts rendered by Principal and Co-investigators for award of the project. Dr. Pankaj Kaushal, Joint Director (Research) articulated that it is the first Extension externally funded project sponsored by ICAR under Farmer FIRST Programme and also first maiden workshop at NIBSM. In addition, JD(R) has briefed the overall research programmes and different capacity building activities of the NIBSM to the forum. Dr P Moventhan, Principal Investigator of the project summarised the various activities of Farmer FIRST Programme and projected the impacts on the upliftment of socio-economic status of tribal farmers which will be likely to take place through implementing five different models. Dr. S. Prabhu Kumar, Chairman of the workshop has explained the genesis, concept, objectives and expected outcome of the Farmers First Programme in his deliberation of the workshop. The word 'FIRST' was spelled as 'Farm Innovation Resource Science Technology' with an ultimate aim to bring income to rural families. The Concept of the FFP was denoted as 'Development of Research agenda by envisaging technology assemblage, partnership development and content mobilization through periodical interface between scientists and farming communities coupled with integration of 'Indigenous Technical Knowhow' (ITK). He remarked that farmers should be 'unwritten PI', 'Partner' and 'co-scientist' for the success of FFP. The Chairman of the workshop, in his key note address emphasised that the Farmer FIRST Programme is an opportunity for NIBSM to provide platform for kick-starting extension programmes and upliftment of tribal farmers of Chhattisgarh and will pave way for tangible visibility of the institute across the country through application of technologies in the habitat of the farmers rather dissemination. Also, he opined that NIBSM has got opportunity to attract village youths to Agriculture *via* Farmer FIRST Programme. The Chairman has

advocated the scientists of NIBSM to act as a catalyst in convincing the farmers of target villages scientifically and practically in such a way to own the project by them as one of the partners and co-scientists to end up by developing cohesiveness and possessives towards NIBSM, Raipur. Finally, it was exclaimed by the Chairman that imparting suitable knowledge and skill towards the value addition of perishable produces, sensitization and motivation of agriprenurship and market led activities are dire needs of FFP. In the afternoon session, tribal village *Sarpanch* from cluster of five villages participated in the workshop. Dr. S. Prabhu Kumar emphasised that FFP will enrich farmer scientist interface by generating data, collecting information and generating knowledge. The workflow and activities to be undertaken in villages under FFP were discussed in detail by the team of FFP. All the *Sarpanchs* and village representative discussed their village problems at length and urged the scientists for overall development of the area through FFP. Further, Dr. Anil Dixit, Dr. V K Choudhary and Dr. K C Sharma explained the various planned research activities with the *Sarpanchs* for the successful implementation of the project. The workshop of the first day ended with satisfactorily note for enhanced orientation of all the stake holders towards frontline extension agriculture in terms of output, outcome and impact through FFP.



Dr. S. Prabhu Kumar, Chairman of the workshop has explained the genesis, concept, objectives and expected outcome of the Farmers First Programme in his deliberation of the workshop.

- **Farmers-Scientists Interface organised in the remote tribal village of Baloda bazar district Chhattisgarh under Farmer FIRST Programme**

As a part of workshop, a Farmers-Scientists Interface Meeting was organised in the remote tribal village (Kharaha) of Kasdol tehsil, Baloda bazar district on 19.01.2016 under Farmer First Programme. More than 120 tribal farmers participated and interacted with scientists. Dr. S. Prabhu Kumar explained the project objectives and encouraged farmers to participate in the project as a partner and not as beneficiary. Co-PIs of the project Dr. V. K. Choudhary and Dr. A. K. Gupta has explained the different intervention under various modules such as Crop based module, Livestock based module, Enterprise based module, Horticulture based module and NRM based module in the local dialect “Chhattisgarhi”. Dr. Anil Dixit, Co-PI of the project briefed the overall project plan and mile stone activities to the mass.



Tribal village *Sarpanchs* sharing their views in the FFP workshop

Principal Investigator coordinated the event along with other Co-PIs and collected the feedback from tribal farmers. Interestingly, the woman tribal farmers expressed their willingness to adopt the recommended intervention under rice fallow pulse cropping system. Further, the tribal woman folk expressed to take up enterprise-based intervention such as goatery, backyard poultry, mushroom production and bee keeping.



Tribal village *Sarpanchs*, farmers, FFP team members, dignitaries and NIBSM officials at the Farmer Scientist Interface, Kharaha village, Kasdol tehsil, Baloda bazar district.



Tribal woman farmer interacting with ICAR-NIBSM scientists

- **ICAR-NIBSM, Raipur organised a one-day farmer exposure visit cum educational tour under Farmer FIRST Programme (FFP) on 09.03.2017 as a part of tribal farmer's development.**

**Awareness Programme organised on Protected Cultivation and Precision Farming for tribal farmers of Chhattisgarh under Farmer FIRST Programme**

ICAR-NIBSM, Raipur organised a one-day farmer exposure visit cum educational tour under Farmer FIRST Programme (FFP) as a part of tribal farmer's development. More than 75 tribal farmers representing men and women in equal proportions, actively participated in the educational tour from the remote tribal villages of Kasdol block of Baloda Bazar district. In this event, farmers visited the Centre of Excellence on Protected Cultivation & Precision Farming, Indira Gandhi Krishi Vishwavidyalaya (IGKV), Raipur and interacted with the scientists about the hi-tech cultivation of muskmelon, tomato, papaya, strawberry and gerbera. Further, the farmers team visited the mushroom production unit, IGKV and learned the cultivation practices of *Oyster* mushroom. In continuation, the team visited the agricultural museum and got exposure to different advanced farm technologies and crop production practices including Integrated Farming System, soil testing, vermi composting, rice biodiversity, agricultural implements, and information access through touch screen technology.

In the afternoon session, the farmers-scientists interface was held at ICAR-NIBSM Baronda campus. During the discussion, scientists briefed about major biotic stress management practices of rice and pulse crops. Dr. Jagdish Kumar, Director (Acting), emphasised the importance of farmers participation in the technology development as well as dissemination of the same. Further, he briefed the objective and mandate of the institute with respect to biotic stress management and appreciated the efforts rendered by Principal and Co-investigators for the successful conduction of the event. Dr. Pankaj Kaushal, Joint Director (Research) narrated the overall research programmes and different capacity building activities of the NIBSM to the mass. In addition, JD (R) stressed that the active participation and involvement of the farming community is the key to the successful implementation of recommended interventions under the Farmer FIRST programme. Farm facilities and experimental fields of NIBSM were also visited by the farmers group. Dr. V.K. Choudhary explained the institute activities in the local

dialect. Dr. P. Mooventhan and Dr. P. N. Sivalingam collected the feedback from the farmers. Dr. Anil Dixit, Principal Scientist proposed vote of thanks.

**Place visited:**

1. Centre of Excellence on Protected Cultivation & Precision Farming
2. Mushroom production unit
3. Agricultural Museum
4. Hi-tech fish farming unit
5. NIBSM farm facilities

**Technology disseminated:**

1. Protected cultivation of horticultural crops such as muskmelon, tomato, cucumber, papaya, strawberry and gerbera flower.
2. Protected nursery production of horticultural crops
3. Oyster mushroom production technology
4. Soil test kit technology
5. Integrated Farming System model
6. Touch screen kiosk usage

**Glimpses of farmer exposure visits cum educational tours**







- **Hands-on” training programme on Oyster Mushroom Production at AICRP unit IGKV, Raipur on 25.03.2017.**



- **Hands-on training on Low-cost *Azolla* production for sustainable feed management**



- Hands-on training on Pheromone trap usage



- **Hands-on training on scientific Nutritional Home Gardening with IIHR vegetable seed kit**



- Training on Goat farming with improved breeds



- Agricultural Film Shows organised on modern agricultural technologies



**B. Technical Progress:****Component - I: Enhancing Farmer - Scientist Interface**

- Details of identification of farm innovators and grooming them as technology agents.

<b>S. No.</b>	<b>Farm Innovators</b>	<b>Module</b>	<b>Intervention</b>
1	Ramkumar Paikra, Bamhani	Livestock Based	Backyard poultry farming
2	Purushottam Das, Kharaha	NRM Based	Azolla production technology
4	Momprakash, Kharaha	NRM Based	Azolla production technology
5	Ajay Das, Bamhani	Enterprise based	Mushroom production technology
6	Jageshwar, Bakla	Livestock based	Goat farming
7	Chain Kumar, Kharri	NRM Based	Azolla production technology
		Enterprise based	Mushroom production technology

**B. Technical Progress:****Component - I: Enhancing Farmer - Scientist Interface**

- **Details of visits of project team and other scientists to project site**

<b>S. No.</b>	<b>Purpose of visit</b>	<b>Date</b>	<b>Details</b>
1	Farmer Sensitization Programme	16.01.17	Conducted farmers meeting and awareness created about FFP activities and discussed about their current activities and situation
2	Farmer-Scientist interface	19.01.17	Conducted stakeholders meeting of all five FFP villages and discussed about FFP interventions, biotic stress on major crops and latest agricultural technology
3	Agricultural Film Shoes (AFSs)	16 - 20.03.17	Conducted Agricultural Film Shoes at FFP villages on current agriculture technologies and need & locality based technology
4	PRA Activities	28.02.17 to 22.03.17	To conduct PRA activities, data collection and baseline survey
5	Training	31.03.17	Conducted training on scientific goat farming including – feed management, care, vaccination and major diseases

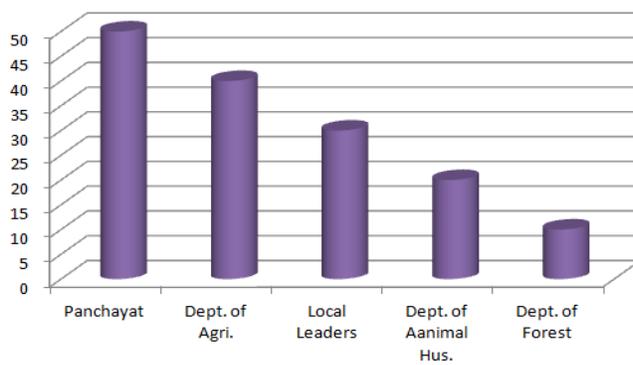
**Glimpses of visits of project team and other scientists to project site**



## B. Technical Progress:

### Component - I: Enhancing Farmer - Scientist Interface

- Details of involvement of multi-stakeholders to create interface with the farmers



- Extent of interface with the farmers

**B. Technical Progress:**

**Component - II: Technology Assemblage, Application and Feedback**

- **Module wise (crops, horticulture, livestock, enterprise, NRM and IFS) progress of technology assessment and demonstration**

Module	Intervention	Progress of technology assessment	Demonstration
<b>I. Crop based module</b>	-	-	-
<b>II. Livestock based module</b>	Goat farming established with the introduction of <i>Sirohi</i> , <i>Jamnapari</i> and <i>Barbari</i> breeds.	- Successful adoption of improved breed	- Scientific goat farming - Improved breeds
	Breed improvement programme with desi goat breeds	-	Sirohi, Jamanapari and Barbari breeds
<b>III. Enterprise based module</b>	Oyster mushroom production technology	- Production Started by farmers	- Oyster mushroom production
<b>IV. Horticulture based module</b>	Scientific Nutritional Home Gardening	- Crop growing by farmers	- Scientific vegetable production technology
	Introduction of vegetable seed kit from IIHR	Technology adopted at field level.	- Scientific technology
<b>IV. NRM based module</b>	Low cost <i>Azolla</i> production	05 unit stablished at FFP villages	Low cost <i>Azolla</i> production
	Eco-friendly crop protection technologies such as Pheromone traps and <i>Trichogramma</i>	- Pheromone trap and <i>Trichogramma</i> adopted in Rice	- Pheromone traps - <i>Trichogramma</i>



**B. Technical Progress:**

**Component - II: Technology Assemblage, Application and Feedback**

- **Module wise farmers' feedback on technology characteristics and socio-economic parameters**

Module	Intervention	Farmers' Feedback	socio-economic parameters
<b>I. Crop based module</b>	-	-	-
<b>II. Livestock based module</b>	Goat farming established with the introduction of <i>Sirohi</i> , <i>Jamnapari</i> and <i>Barbari</i> breeds.	Farmers are happy with improved breeds	- Increase in profit
	Breed improvement programme with desi goat breeds	Farmers want to improve their desi breeds	- Profitable for desi breed rearing farmer
<b>III. Enterprise based module</b>	Oyster mushroom production technology	- Growing by rural youth - very useful technology	- Employment and income generation
<b>IV. Horticulture based module</b>	Scientific Nutritional Home Gardening	Adopted scientific practices	-Availability of vegetables for daily use - Increase in nutritional security
	Introduction of vegetable seed kit from IIHR	Positive attitude observed	Good quality produce and high yield
<b>IV. NRM based module</b>	Low cost <i>Azolla</i> production	- very useful for Chicks, goats and crop	Reduce in cost of feed
	Eco-friendly crop protection technologies such as Pheromone traps and <i>Trichogramma</i>	Farmer want to use in large area	- Eco friendly Reduction in cost of cultivation

**B. Technical Progress:**

**Component - III: Partnership and Institution Building**

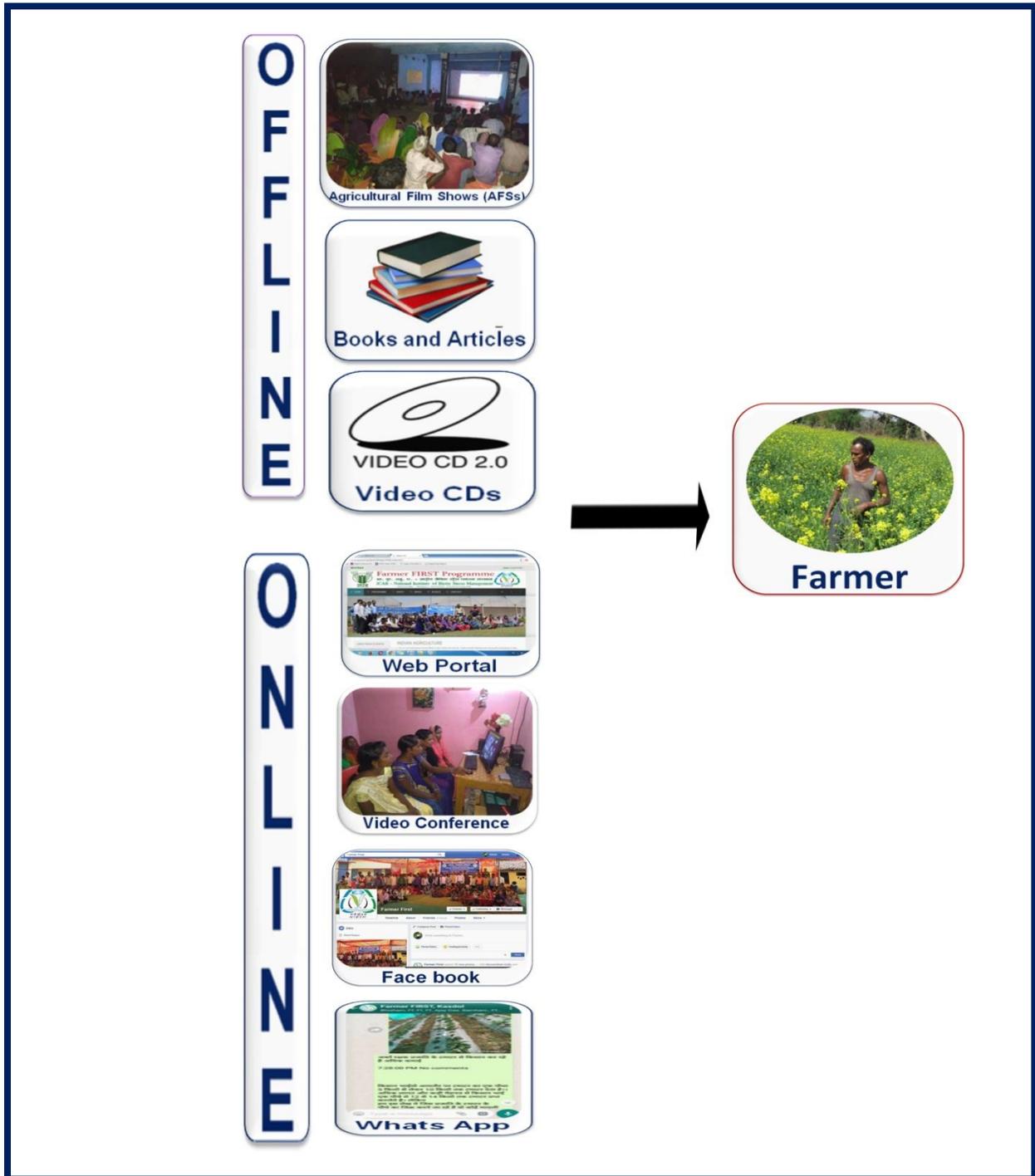
- **Mobilization of Groups and their capacity building**

Module	Intervention	Mobilization of Groups	Capacity building
<b>I. Crop based module</b>			
<b>II. Livestock based module</b>	Goat farming established with the introduction of <i>Sirohi</i> , <i>Jamnapari</i> and <i>Barbari</i> breeds.	07 goat farming group including 83 members	- Scientific goat farming and management
	Breed improvement programme with desi goat breeds	07 goat farming group involve	Technical guidance
<b>III. Enterprise based module</b>	Oyster mushroom production technology	01 group including 10 members	- Training on scientific oyster mushroom production technology and management - Timely guidance
<b>IV. Horticulture based module</b>	Scientific Nutritional Home Gardening	25 farm families started scientific practices	- Training on scientific production technology, nursery raising and plant protection
	Introduction of vegetable seed kit from IIHR	-	-
<b>IV. NRM based module</b>	Low cost <i>Azolla</i> production	05 farm families established their own unit	<i>Azolla</i> production technology and their management
	Eco-friendly crop protection technologies such as Pheromone traps and <i>Trichogramma</i>	10 farmers using this trap and trichocard	Training on uses, handling and installation

**B. Technical Progress:**

**Component - IV: Content Mobilization**

- **Development of information system, database**



**B. Technical Progress:****Component - IV: Content Mobilization**

- **Identification and pooling of available transferrable technologies available with different institutions**

<b>Technologies</b>	<b>Source Institutions</b>	<b>Particulars</b>
Aqua ferti seed drill	IARI, New Delhi	Introduced in rice fallow area for production of pulses in <i>rabi</i> season
Hi- tech horticulture	IGKVV, Raipur, C.G.	Organised a training and exposure visit with farmers on protected cultivation of horticulture crops
Goat farming	CGKV, Durg, C.G.	Getting guidance on scientific goat farming practices and breed improvement programme
	State Vet. Department, Kasdol	Getting valuable help and guidance in vaccination of goats and chicks
Custom Hiring Centres (CHCs)	C G State Beej Nigam, Raipur , C.G.	Procured drudgery reduction Agriculture Equipments for CHCs
Mushroom Production	IGKVV, Raipur, C.G.	Got valuable help, training, guidance and materials in oyster mushroom production

**B. Technical Progress:**

**Component - IV: Content Mobilization**

- Preparation of knowledge models

**1. Azolla Production Units**



**Low Cost Azolla Production**

**- is meant for**

- Farmers who have livestock

**- is sponsored by**

- ICAR- NIBSM,

**- is a**

- Unit of low cost feed production for cattle, goat and chicks

**- it has**

- Low cost *Azolla* production unit
- Easy to establish and management
- Based on local materials

## 2. Scientific goat farming



**Scientific goat farming**

- is meant for	- Farmers and farm women
- is sponsored by	- ICAR- NIBSM,
- is a	Goat of Sirohi, - Jamnapari and barbari breeds
- it has	Scientific farming and management - More profitable Group approach in farming people

## 3. Agricultural Film Shows (AFSs)



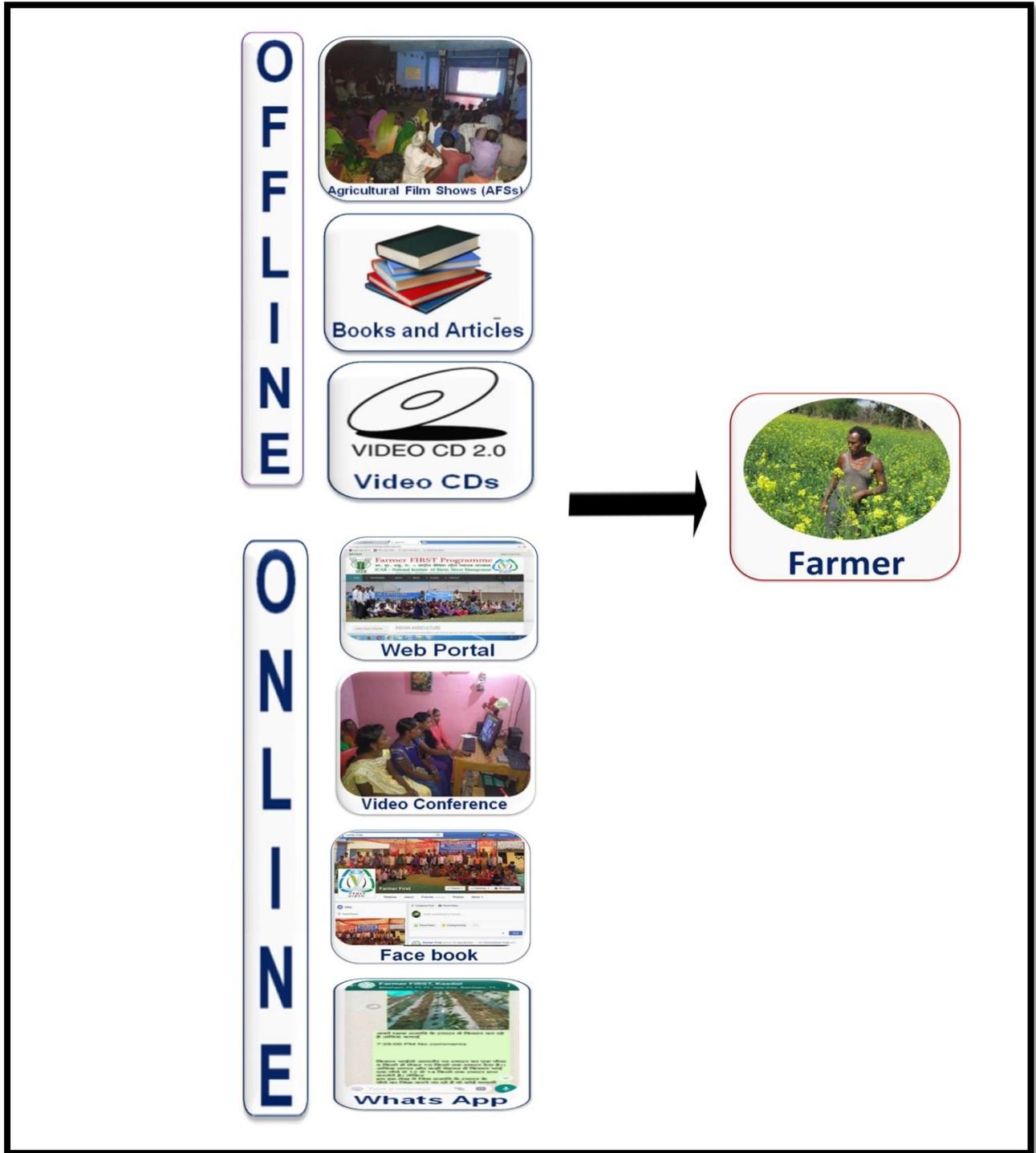
**Agricultural film shows**

- is meant for	- Farm families and villagers
- is sponsored by	- ICAR- NIBSM,
- is a	Short film related to - agriculture technology
- it has	Good knowledge model for rural people  Need and time based videos  More audience attention  Coverage to maximum people

**B. Technical Progress:**

**Component - IV: Content Mobilization**

- **Content management platform enabling off and online access**



**C. Technical Progress: Details of dissemination of successful project outputs through - Farmer to farmer, Mass media system, Cross-visit, Meeting in the field, Development of extension material, Farmer to farmer exchange, Project site meetings and interaction and Distribution of literature.**

S. No.	Interventions / achievements	Partners / area covered	Expected income
1.	Goat farming (Sirohi, Jamnapari and Barbari breeds)	83	2.4 lakhs
2.	Oyster Mushroom Production - Four model units established and production started	20	20,000/-
3.	Low cost <i>Azolla</i> production (05 units) - cattle, goat and poultry	05	30% savings
4.	Nutritional home garden	-	-
5.	Capacity building through training and demonstrations (Protected Cultivation, goat/kadakhnath farming, Mushroom production and Plant protection technologies)	175	Capacity building
6.	Pheromone trap (for Rice and vegetables)	10	40% savings
7.	Knowledge management systems (Web portal, Social media and Mobile application - In process)	Open to all	Knowledge sharing

S. No.	Interventions / achievements	Market linkages
1.	Goat farming (Sirohi, Jamnapari and Barbari breeds)	Local butcher shop and state departments
2.	Oyster Mushroom Production	Local restaurants and vegetable shops
3.	Nutritional home garden and vegetable cultivation (through IIHR F1 Hybrid)	Local mandi and village market
4.	<i>Azolla</i> production	Farmers to Farmers

S. No.	Interventions / achievements	Approach
1.	Goat farming (Sirohi, Jamnapari & Barbari breeds)	Goat producer groups and Self Help Groups
2.	Oyster Mushroom Production	Mushroom Producer Groups

**Overall activities: 2016 - 17**

<b>S. No</b>	<b>Activities/Events</b>	<b>Place</b>	<b>Date</b>
1.	Farmers sensitization programme on selected interventions	Bakla, Bamhani, Kharaha, Kurraha	16.01.2017
2.	Two days workshop on FFP implementation	NIBSM Baronda	18.01.2017
3.	Farmers-Scientist interface	Kharaha	19.01.2017
4.	Participatory Rural Appraisal (PRA) exercises conducted	Kharaha	28.02.2017 & 1, 2.03.2017
		Kharri	16, 17, 18.03.2017
		Bamhani	3 & 4.03.2017
		Bakla	25, 26, 27.02.2017
		Kurraha	22.03.2017
5.	Farmer exposure visit cum educational tour	IGKV, Raipur	09.03.2017
6.	Farmers-Scientist interface	NIBSM Baronda	09.03.2017
7.	Agricultural Film Shows (AFSs)	Kharaha, Kharri, Bamhani, Bakla and Kurraha	16.03.2017, 17.03.2017, 18.03.2017, 19.03.2017, 20.03.2017...weekly once
8.	Hands-on” training programme on Oyster Mushroom Production	IGKV, Raipur	25.03.2017
9.	Distribution of Sirohi, Barbari & Jamnapari goat breeds	Bakla and Bamhani	31.03.2017
10.	Krishi Samridhi – Rashtriya Mela	Raipur, Chhattisgarh	27-31.01.2017
11.	FFP Institute review meeting	ICAR-NIBSM	10.02.17

#### D. Other Achievements

- On-site input production and management like vermicomposting, nursery of planting material, seed production, residue management, etc.



**Azolla production for sustainable feed management**

- 05 low cost azolla production unit established
- Producing approx 500 gm azolla per unit
- Using as cattle, goat and poultry feeds
- Reducing 20% cost of feed
- Easy to establish and manage
- Also useful for rice and other crops
- Less resource requirements



**Goat manure utilization**

- Every goat farming groups are maintaining separate goat manure pit
- Utilization of goat manure in kitchen gardening and other crop production
- Recycling of farm wastage



**Paddy straw utilisation for oyster mushroom production**

- 20 farm families started production at their home
- Organised training programme at village level and institute level
- Farm women getting extra income from paddy straw
- Employment generation for rural youth

#### **D. Other Achievements**

- **Conducting field studies on socioeconomic perspective and impact evaluation - Is under process.**

- Conducting field studies on socioeconomic perspective and impact evaluation is under process. Since, all the interventions are in the production stage.

#### **D. Other Achievements**

- **Any award and recognition received by FFP Team/farmers**

### E. Other Achievements

- List of publications, two copies of each of the publications of the project may be attached along with good quality photographs in JPEG format, video clips (Soft and hard copies as applicable)

S. No.	Name of publication	Subject matter of publication
1	IGKV Video CDs (Hindi) Kept in Farmer Communication Centre for mass circulation	<ul style="list-style-type: none"><li>• Integrated farming system</li><li>• Fisheries</li><li>• Use of bio fertilizers</li><li>• Agriculture mechanization</li><li>• Watershed management</li><li>• Mushroom production</li><li>• Soil health testing</li><li>• Varieties of rice and their characteristics</li><li>• Cultivation of millets</li><li>• Cultivation of Chickpea</li><li>• Cultivation of soybean</li><li>• Cultivation of maize</li><li>• Cultivation of medicinal plants</li><li>• Cultivation of sweet potato</li><li>• Pulses production on bunds</li><li>• Bee keeping</li></ul>
2	IGKV Books (Hindi) Kept in Farmer Communication Centre library	<ul style="list-style-type: none"><li>• Cultivation of vegetable crops</li><li>• Cultivation of Rabi crops</li><li>• Cultivation of Kharif Crops</li><li>• Preservation and value addition</li><li>• Vegetable nursery management</li><li>• Annual crop calendar</li></ul>

**Annexure - I**

**Site Plan Implementation Group (SPIG) meetings proceedings and action taken report**

<b>S. No</b>	<b>Module</b>	<b>Recommendation</b>	<b>Action taken</b>
I	<b>Crop based module</b>	Introduce eco - friendly plant protection measures	Pheromone trap used
II	<b>Livestock based module</b>	Improved goat breed for higher income	Sirohi, jamnapari and barbari breed
III	<b>Enterprise based module</b>	Introduce suitable type of mushroom based on the climatic condition	Oyster mushroom introduce
IV	<b>Horticulture based module</b>	Promote farmers for scientific vegetable production	Capacity building programme organised
V	<b>NRM based module</b>	Recycle locally available farm waste	Paddy straw recycled in mushroom production

**NOTE:** Date of meetings held: 16.01.17, 08.03.17

**Annexure - II**

**Institute Advisory Meetings proceedings and action taken report**

<b>S. No.</b>	<b>Module</b>	<b>Recommendation</b>	<b>Action taken</b>
I	<b>Crop based module</b>	Follow the recommended package of practices	Followed scientific methods
II	<b>Livestock based module</b>	Provide capacity building in time	Capacity building organised in time
III	<b>Enterprise based module</b>	Encourage the farmers to use local resources to establish the concerned enterprise	Awareness created on minimum resource utilisation
IV	<b>Horticulture based module</b>	Use locally available seeds from IGKV	Due to lack of quantity. Seeds procured from IIHR.
V	<b>NRM based module</b>	-	-

**NOTE:** Date of meetings held: 19.01.2017,

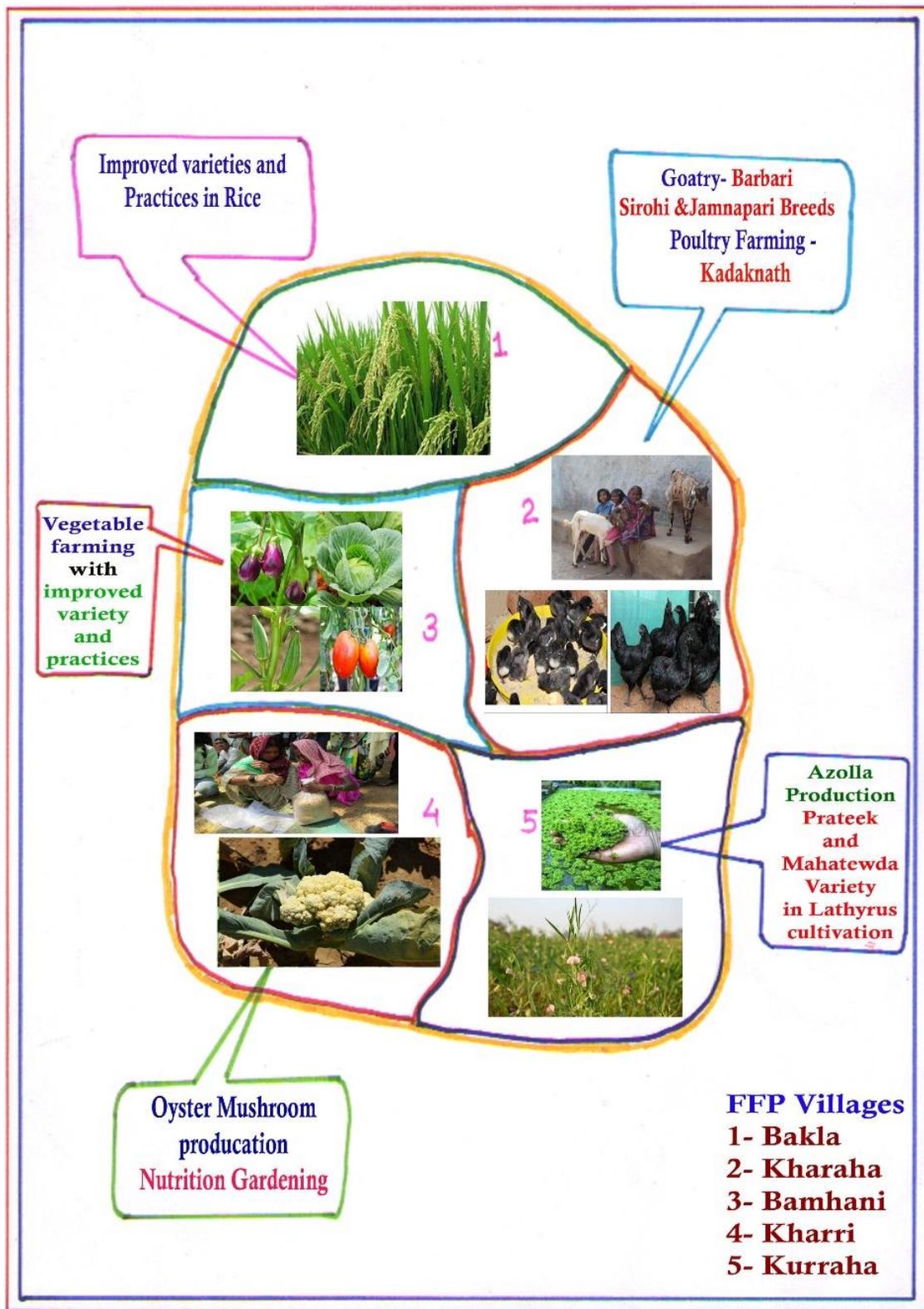


**Institute Advisory Committee (IAC) Meetings**



**Site Plan Implementation Group (SPIG) meetings**

**Technology map: a depiction (in one frame) of the status of technology implemented along with the details about the technology.**



## I. Head-wise expenditure till 31<sup>th</sup> March, 2017

### FARMER FIRST PROJECT EXPENDITURE UP TO 31.03.2017 (2016 - 17)

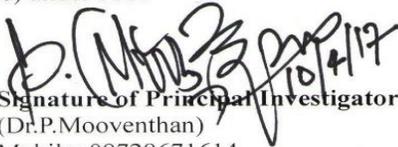
Name of Institute: ICAR-NIBSM, Raipur (CG)

(Rs.)

S.No.	Component	Sanctioned amount in 2016-17	Fund received so far during 2016-17	Expenditure up to 31.03.2017
<b>1.</b>	<b>Grant-in-aid-Capital</b>			
1.1	Works	0.0	0.0	0.0
1.2	Equipments	8.70	8.70	8,34,297
1.3	IT	2.0	2.0	2,11,490*
1.4	Furniture	0.0	0.0	0.0
<b>Total (A)</b>		<b>10.70</b>	<b>10.70</b>	<b>10,45,787</b>
<b>2.</b>	<b>B. Grant-in-aid-General</b>			
2.1	TA	1.50	1.50	1,39,056
2.2	HRD	1.50	1.50	1,45,430
2.3	Research & Operational Expenditure	11.60	11.60	12,08,290*
2.4	Admn. Expenditure	1.50	1.50	1,08,724
<b>Total (B)</b>		<b>16.10</b>	<b>16.10</b>	<b>16,01,500</b>
<b>Grant Total (A+B)</b>		<b>26.80</b>	<b>26.80</b>	<b>26,47,287</b>

**Note:** \* Total excess expenditure incurred on IT and Research & Operational Expenditure heads mentioned in the UC/SoE may be allowed to adjust from the unspent balance available in other heads. Therefore the total expenditure is not exceeding sanctioned budget for this financial year (2016-17). Request for approval of intra head budget adjustment submitted to CA on 31.03.2017 through email. This case was presented at National Review Workshop at ICAR-NAARM, Hyderabad and we got the consent from the house for the additional grant of Rs.3 lakhs under Research and Operational expenditure for above said adjustment. Subsequently, in principle approved Rs. 3 lakhs has been declined by the Competent Authority on 28.03.2017.

Further, March 2017 salary (Rs.45,000) of Senior Research Fellow and Field assistant is not included in the above estimates and the said salary will be provided after the fund release for the year (2017-18) under FFP.

  
 Signature of Principal Investigator  
 (Dr.P.Mooventhan)  
 Mobile: 09729671614

  
 Signature of F&AO  
 (Dr.K.C.Sharma)  
 Mobile: 08085633709

**Dr. P. Mooventhan, Ph.D.**  
 Scientist (Vet. Extension)  
 National Institute of Biotic Stress Management  
 Indian Council of Agricultural Research  
 Baronda, Raipur, Chhattisgarh - 493 225

**वित्त एवं लेखाधिकारी**  
**Finance & Accounts Officer**  
 भाकृअनुप-रा.वै.सं.प्र.सं., बरौडा, रायपुर (छ.ग.)  
**ICAR-NIBSM, Baronda, Raipur (C.G.)**

## II. Fund Utilization Certificate

GFR 19-A

(See Rule 212 {1})

### FORM OF UTILIZATION CERTIFICATE

S.No.	Letter No. and date	Sanctioned Amount	Certified that out of Rs. 26, 80, 000 (FUND RECEIVED) of grants-in-aid sanctioned during the year 2016-17 in favour of (COMPTROLLER/ Director) under this Ministry/ Department Letter No. given in the margin and Rs.32,713 (UNSPENT BALANCE) on account of unspent balance of the previous year, a sum of Rs. 26,47,287 (EXPENDITURE) has been utilized for the purpose of Farmer FIRST Project at ICAR-NIBSM, Raipur, CG for which it was sanctioned and that the balance of Rs. 32,713 (CLOSING BALANCE) remaining unutilized at the end of the year has been surrendered to Government (vide No..... dated.....) / will be adjusted towards the grant-in-aid payable during the next year 2017-18.
1.	F.No. A.Extn. 20-3 / 2011- AE I dated 28.10.2016	Rs. 26, 80,000	

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it is sanctioned.

  
Signature of PI  
(Dr.P.Mooventhan)  
Mobile: 09729671614  
Date 10/04/2017

**Dr. P. Mooventhan, Ph.D.**  
Scientist (Vet. Extension)  
**National Institute of Biotic Stress Management**  
Indian Council of Agricultural Research  
Baronda, Raipur, Chhattisgarh - 493 225

**(P. Mooventhan)**  
PI, Farmer FIRST project  
ICAR - NIBSM, Raipur, C.G.

  
Signature of F&AO  
(Dr.K.C.Sharma)  
Mobile: 08085633709  
Date 10/04/2017

वित्त एवं लेखाधिकारी  
Finance & Accounts Officer  
भाकृअनुप-रा म्दे.प्र.मं., वगैडा, रायपुर (छ.ग.)  
ICAR-NIBSM, Baronda Raipur (C.G.)

**(P. Kaushal)**  
Joint Director (Research)  
ICAR - NIBSM, Raipur, C.G