



ICAR-CENTRAL INSTITUTE OF FISHERIES EDUCATION, MUMBAI

## MEERA GAON MERA GOURABH

Report prepared by  
Dr. S. N. Ojha, Principal Scientist & Nodal Officer,  
MGMG Program, FEES Division, ICAR-CIFE



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Panch Marg, Off Yari Road  
Versova, Andheri (W)  
Mumbai.400 061

## ICAR-CIFE-MERA GAON MERA GOURABH

### BASELINE SURVEY

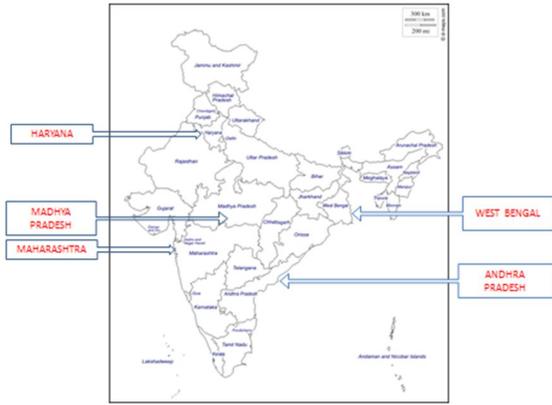
The ICAR-Central Institute of Fisheries Education (CIFE), Mumbai, is a deemed university on fisheries education, that is covering masters and doctoral programmes in 11 disciplines of fisheries science. These 22 specialized research based teaching programmes are provided by 84 scientists. Each such programme is covered by around 4 scientists. The university has six major Departments/ Divisions including Aquaculture; Fisheries Resources, Harvest and Post-Harvest; Fish Genetics and Biotechnology; Aquatic Environment and Health Management; Fish Nutrition and Biochemistry and Fisheries Economics, Extension and Statistics. Its four Centres at Rohtak (Haryana), Kolkata (West Bengal), Kakinada (Andhra Pradesh) and Powarkheda (Madhya Pradesh) are spread over different agro-climatic zones and have inland-saline, freshwater and marine farm facilities for on-farm education and extension. Two training-cum-research fishing vessels M.F.V. Saraswati (36 m OAL) and M.F.V. Narmada (11 m OAL) greatly contribute to the learning and research experience of our students and other institutions. The institute also runs several short term training programmes for the farmers and officers besides conducting demand driven awareness programmes in different parts of the country as the institute does not have full-fledged Directorate of Extension, like other deemed universities of ICAR.

The programme, Mera Gaun Mera Gourabh (MGMG)/My Village My Pride was initiated by the institute in the month of September, 2015. Since MGMG was a new concept, the scientists have tried to integrate the concept with fisheries programmes. Mostly the villagers are busy in the festival seasons and are able to furnish data accordingly.

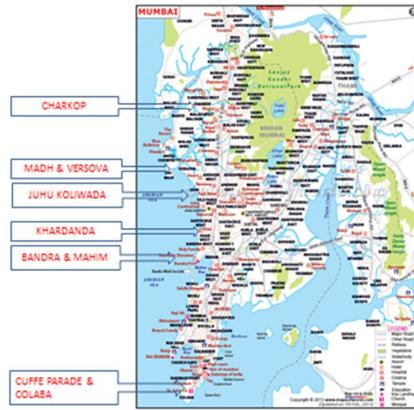
#### Methodology

Considering the dimensions of the programme, the scientists were divided into groups. Later they were also encouraged to select to select villages of their choice, depending on their interest in developing projects (Box 1). Though the overall supervision was with the patrons of the programme, they were assisted by the advisors and education material architects to look after the educational materials. Field programmes were assigned to a team of scientists who would be supported by field reporters. Though this institute is covering some fishing villages through its regular research programmes and the MGMG has not developed the format for the fisherfolks, the institute has taken some fishing villages and some villages from the inland areas, after adding some parameters for the fisherfolk community in the baseline survey.

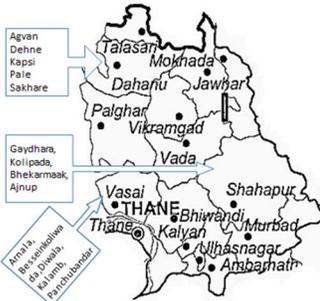
Box 1: Lcales of study



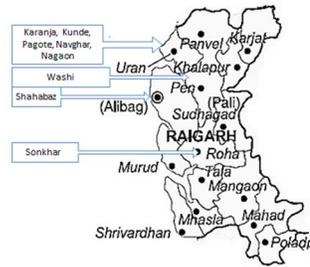
1. India



2. Greater Mumbai



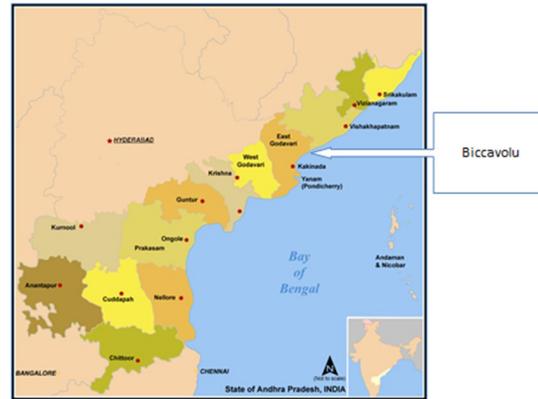
3. Thane



4. Raigad



5. Pune



Andhra Pradesh



6. Madhya Pradesh



7. West Bengal



8. Haryana

## Activities

The major activities conducted during this period (Oct-Dec, 2015) were; Attracting Fisher-Youths in Fisheries Education, Training Need Assessment, Demonstration of value added fish products to fisherwomen, and Developing Soil (and Water) Health Card for Aquaculture. Many other activities are also initiated which are in initial stage.

### Activity 1: CIFE HQs

#### Attracting Fisher-Youths in Fisheries Education (AFYFE)

CIFE, in its own way, had designed a demand driven programme under Mera Gaon Mera Gourav (My Village My Pride) for Attracting and Retaining Rural Youth to Agriculture (ARYA) on 26 Oct, 2015. The Institute had responded to the request of the fishing village to bring awareness about fisheries education among the traditional fishers in nearby Versova. The institute had motivated the fisher-students to join fisheries and contribute by adding the traditional knowledge and learning modern fishing science. While the CIFE faculty gave illustrated and interesting lectures about fisheries education and its scope in public and private sector, the students of CIFE explained about their joining this sector. Lastly a fisher-student gave an interesting feedback about this awareness programme. The fishers were also shown the film on CIFE.



1. Dr. S. N. Ojha, Principal Scientist, CIFE, explaining to the fishers the scope fisheries education in India



2. Dr. Megha Kadam Bedekar, Senior Scientist, CIFE specified some aspects of fisheries education in Marathi



3. Mr. Pradip Tapke, Fisher Leader, Versova, said about the need of such programme.



4. The participants of the programme viewing the film on CIFE.

## Activity 2: CIFE HQs

### Training Need Assessment

Scientists interacting with village level organizations for developing need based training programmes

Training Need Assessment: From the report on baseline survey conducted in five villages in Raigad district, KARANJA AND KUNDE villages have been selected to carry out further development work as these two villages only are engaged with fisheries related activities. Accordingly, training on value addition and fisheries product development has been planned-to be conducted in both the selected villages with the help of the expert from our institute. The program will be conducted in the next quarter. Further training on life saving skills has also been planned with the help of various departments associated with disaster management.



### Activity 3: CIFE HQs

Developing plan to address the pollution in the sea

Team members: Dr. Babitha Rani, Ms. Manjusha L., Mr. Saurav Kumar, Ms. Husne Banu

Interacted with

- I. Society Juhu Tara Koliwada Samaj Matsyodog Sahakari Sangh
- II. Mahim Naqwa Machimar Sahakari Society
- III. Machimar Sarvoday Sahakari Society Ltd.
- IV. Sri Martandaprasann colab Matsyodyog Vividh karyakari Sahakari Samastha Maryadit

Major problem on identified as

1. Coastal pollution Plastic Waste Management in Maharashtra
2. Illegal fishing by purse seiners from Gujarat coast
3. Interference by middlemen in price fixing
4. Acquisition of fishing grounds by ONGC

Action plan:

Our team made sincere effort to prioritize the existing problem in the adopted village and pronounced that plastic and coastal pollution is ranked top. In this respect we collected the data and published research related to respective zone in order to formulate action plan. As Maharashtra Pollution Control Board has acted strongly on this line and doing critical research to solve the problem and information is available as follow:

Rules/Procedures

- I. Re-cycled Plastics Manufacture and Usage Rules, 1999 under the Environment (Protection) Act, 1986 on September 2, 1999
- II. MoEF Re-cycled Plastics Manufacture and Usage (Amendment) Rules, 2002
- III. Recycled Plastics Manufacture and Usage (Amendment) Rules, 2003
- IV. Office Order to form Special cell to oversee the compliance of Recycled Plastic manufacture and usage (amended) Rules 2003
- V. The Maharashtra Plastic Carry Bags (Manufacture and Usage) Rules 2006
- VI. Maharashtra Non-biodegradable Garbage (Control) Ordinance, 2006 (Mah. Act. No. X of 2006)
- VII. Issued the circular on Implementation of Maharashtra Plastic Carry Bags (M&U) Rules 2006
- VIII. The Plastic Waste (M&H) Rules 2011 issued by the ministry of Environment and Forest, Govt of India.
- IX. Action plan on Checking Compliance to Implementation of Plastic Rules/ Act by vigilance team.
- X. Plastic Waste (M &H) Rules, 2011
- XI. Plastic Waste (M&H) Amendment Rules, 2011

Further information related to Practically Feasible and Economically Viable Method of Disposal of Plastic Waste is available in this link: <http://mpcb.gov.in/images/pdf/plasticReport.pdf>

We are preparing the lay out for tackle the present plastic and coastal pollution and planning to sensitized the stack-holders.

The gap between villagers, fisherman and board need to be bridged and we are planning to cater as coordinator to highlight the key issues among the parties.

Activity 4: CIFE HQs

Demonstration of value added fish products to fisherwomen

From the feedback from the adopted villages i.e. Versova and Mahim (under Mera Gaon Mera Gourav) during the base line survey, it was learnt that they need a training programme on value added fish products preparation. Accordingly, a training programme was organized for the fisher women of Versova and Mahim on 2/12/2015. Total 30 women participated from this two fishing villages. They were trained in making products like fish wada, chukly, pickle and cutlet from the low cost fish mince.



Demonstration of value added fish products



Fish chukley



Fish cutlet



Fish wada

Activity 5: CIFE HQs

Soil (and Water) Health Card for Aquaculture

CIFE is in the process of developing Soil Health Card for individual fish farmer.

Soil Analysis Report Sample received/collected on: Dt: 26.11.2015 Name of Farmer: Bhusan Vartak				Address: Village Saffale, Dist. Palghar (Maharashtra)		
Sl. No.	Parameter	Unit	Value observed		Suitable range	Remarks
			Top soil	Bottom soil		
1.	pH		7.3	7.4	6.0-8.0	
2.	Soil colour		Dark brown	Light brown	Black/Brown	Not Red
3.	Soil texture					Sand contents are high
	Sand	%	*48	*65	40.0	
	Silt	%	28	23	30.0	
	Clay	%	24	12	30.0	
4.	Water retention capacity	%	*36.33	*28.46	40.0	Water retention capacity is less
5.	Organic carbon	%	0.38	0.24	0.5-2.75	
6.	Total Nitrogen –N	mg/100 g	40	24	>50	
7.	Phosphorus-P	mg/100g	4.6	3.4	>6	
8.	Potassium-K	mg/100g	-	-	>25	
9.	Electrical conductivity	millimhos/cm	-	-	<16	

\*Recommendation: Soil texture is not suitable for aquaculture practices, it needs seepage control measures before taking it for fish culture.

Soil Analysis Report						
Sample received/collected on: Name of Farmer: Darshan Koli Address: Village Satpala, Vasai-Virar, North Mumbai				Dt: 18.11.2015		
Sl. No.	Parameter	Unit	Value observed	Suitable range	Remedial measure	Remarks
1.	pH		7.5	6.0-8.0		
2.	Soil colour		Blackish	Black/Brown		Not Red
3.	Soil texture		32			
	Sand	%	34	40.0		
	Silt	%	34	30.0		
	Clay	%		30.0		

4.	Water retention capacity	%	42.4	40.0		
5.	Organic carbon	%	12.18	0.5-2.75		
6.	Total Nitrogen -N	mg/100 g	123	>50		
7.	Phosphorus-P	mg/100g	7.6	>6		
8.	Potassium-K	mg/100g	-	>25		
9.	Electrical conductivity	millimhos/cm	-	<16		

Water Analysis Report						
Sample received/collected on:			Dt: 18.11.2015			
Name of Farmer: Darshan Koli						
Address: Village Satpala, Vasai-Virar, North Mumbai						
Sl. No.	Parameter	Unit	Value observed	Suitable range	Remedial measure	Remarks
1.	Colour		Greenish	Light green/brown		Not clear water
2.	Transparency	cm	37	30-40		
3.	pH		8.3	7.5-8.5		
4.	Alkalinity	mg/l	172	50-275		
5.	Salinity	g/l	nil	>0.5		
6.	DO	mg/l	6.2	5.0-10.0		
7.	CO <sub>2</sub>	mg/l	nil	<3.0		
8.	Hardness Ca <sup>++</sup> Mg <sup>++</sup>	mg/l	183	50-200* 125-700*		
9.	Ca : Mg		-	1:2.5-3.5*		
10.	NH <sub>4</sub> <sup>+</sup> - N	mg/l	0.19	<1.0		
11.	NO <sub>2</sub> - N	mg/l	0.11	<0.5		
12.	NO <sub>3</sub> - N	mg/l	2.32	<25		
13.	PO <sub>4</sub> - P	mg/l	0.27	<0.5		
14.	Potassium K	mg/l	-	0.5-10.0 50-380*		
15.	Iron Fe	mg/l	0.12	<0.3		

Activity 6 CIFE Centre, Powarkheda

Scientists demonstrating aquaculture technology

		
		
S.No.	Activity	Work carried out
1.	Formation of team of scientists by the centre	Formed two teams of Scientists as per stipulated date i.e August,2015
2.	Selection of Villages by the group of scientists	Selected two villages in time
3.	Benchmark survey of villages	Done in time
4.	Database of mobile user farmers	Collected mobile no. of lonely fish farmer and the Sarpanches and secretaries of selected villages.
5.	Demonstration of village specific modules	Given technical guidance to fish farmer on post stocking management of fish pond.
6.	Interface with farmers	Done by organising awareness camp
7.	Creation of awareness about climate change and others	Done by organising awareness camp
8.	Educating villagers about issues of local and national importance	Done by organising awareness camp
9.	Emphasise the adoption of modern agriculture technology by farmers	Done by organising awareness camp
10.	Inculcating the ideology of clean and good agricultural practices like vermicomposting ,soil health, water-harvesting etc.	Done by organising awareness camp
11.	Development of village specific brief technical literature and distribution to related farmers.	Distributed technical pamphlet on 'Carp Culture' to the fish farmer
12.	Submission of quarterly report to the nodal officer	Submitted.

Activity 7: CIFE Centre, Kakinada

Developing soil health card, mobile based advisory services and demonstrations

Soil Health Card

50 soil samples from freshwater and brackish water aquaculture ponds of Bikkavolu and Amalapuram area were analysed under the programme. Parameters like soil colour, soil pH, soil texture (sand, silt, clay %), water retention capacity, organic carbon%, available nitrogen (ammonia and nitrate), phosphorus, potassium and soil salinity were analysed. Test results were sent to CIFE Mumbai for recommendations.

Mobile Based Advisory Service

In addition to these mobile based advisories in quality fish seed production, Fish seed transportation and water quality management were given to the farmers.

Demonstrations

Demonstrations on aquaculture pond management and plankton collection were given to the farmers.



Fish seed transportation



Plankton collection



Quality fish seed

## Activity 8: CIFE Centre, Kolkata

### Developing soil health card

SOIL HEALTH CARD: Soil samples submitted by 55 farmers from 10 selected villages of Sonarpur and Baruipur blocks, Dist. - South 24 Parganas under MGMH programme were analysed. Parameters like soil colour, soil pH, soil texture (sand, silt, clay %), water retention capacity, organic carbon %, available nitrogen (ammonia and nitrate), phosphorus, potassium and soil salinity were analysed. Test results were sent to CIFE Mumbai for recommendations based on these soil test reports. Soil health card will be issued to these farmers after completion of all official formalities.

## Results

### Group wise problems and recommendations

#### Greater Mumbai ( Maharashtra) Coastal Fisheries Development

<b>GROUP 1</b>	Dr. Babitha Rani, A.M. , Ms. Manjusha L. , Mr. Saurav Kumar, Ms. Husne Banu
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1.	Name of the Scientist(s)	Dr. Babitha Rani, A.M. (Team Leader) Ms. Manjusha L. Mr. Saurav Kumar Ms. Husne Banu (Coordinator)
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	Name of the Identified Villages:	Juhu Koliwada, Mahim, Cuffe Parade & Colaba
	Post Office	NA
	Block	NA
	District	Mumbai

Major Problems	Juhu Koliwada, Mahim, Cuffe Parade & Colaba
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Nil	Nil	Nil	Nil	Marine Fisheries	1. Acquisition of fishing grounds by ONGC 2. Illegal fishing by purse seiners from Gujarat coast 3. Interference by middlemen in price fixing 4. Extensive presence of suspended and plastic pollutant in fishing area

	Recommendations	1. Meeting the officers of the pollution control board to find out their problems in addressing the pollution related issues of the selected village. Meeting the officers of department of fisheries to discuss about acquisition of fishing grounds by ONGC, illegal
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		<p>fishing by purse seiners from Gujarat coast, and interference by middlemen in price fixing. Preparing a report based on the discussion with such officers as SWACHH BHARAT campaign.</p> <ol style="list-style-type: none"> <li>2. Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details.</li> <li>3. Improving the base line information</li> <li>4. Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.</li> </ol>
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<b>GROUP 2</b>	Dr Balange A K, Dr Paramita Sawnt, Mr Karan Ramteke, Mr Sikendera Kumar
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1.	Name of the Scientist(s)	Dr Balange A K ( Team Leader) Dr Paramita Sawnt Mr Karan Ramteke Mr Sikendera Kumar ( Coordinator)
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	Name of the Identified Village:	Khardanda, Madh gaon, Versova, Bandra, Charkop
	Post Office	NA
	Block	NA
	District	Mumbai

Major Problems	Khardanda, Madh gaon, Versova, Bandra, Charkop
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Nil	Nil	Nil	Nil	Marine Fisheries	<ol style="list-style-type: none"> <li>1. No training for fish processing and product development.</li> <li>2. No programme for young fishers on fisheries education.</li> <li>3. Lack of proper market</li> <li>4. Lack of processing plant</li> <li>5. sea water pollution by</li> </ol>

					sewage 6. Requirement of Jetty ( Madh Gaon, Versova)
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	Recommendations	<p>Developing a training programme on fish processing, product development and marketing under SWACHH BHARAT and MAKE IN INDIA campaign.</p> <p>Meeting the officers of the pollution control board to find out their problems in addressing the pollution related issues of the selected village. Meeting the officers of department of fisheries to discuss about acquisition of fishing grounds by ONGC, illegal fishing by purse seiners from Gujarat coast, and interference by middlemen in price fixing. Preparing a report based on the discussion with such officers as SWACHH BHARAT campaign.</p> <p>Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details.</p> <p>Improving the base line information</p> <p>Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.</p>
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**GROUP 3**

Dr.S.P.Shukla , Dr.Zeba Jaffer Abidi, Dr.R.P.Raman, Dr.A.K.Jaiswar

Name of the Scientist	Dr.S.P.Shukla , Dr.Zeba Jaffer Abidi Dr.R.P.Raman, Dr.A.K.Jaiswar
Name of the Institute/ Agricultural University/Station	Central Institute of Fisheries Education Versova,Mumbai 400061

Name of the Identified Village:	Madh Koliwada ( Madh Daryadeep Machchimaar cooperative society) Madh Koliwada ( Madh Machchimaar V.K.S. Cooperative society)
Post Office	Versova
Block(Taluka)	Malad West
District	Mumbai

Major Problems	Versova
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Crops/ Horticultur e Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Nil	Nil	Nil	Nil	Marine Fisheries	1. Depletion in fish stock due to overfishing by trawlers ( Falka), purse seine 2. Destruction of biodiversity in coastal areas due to pollution and other human activities 3 Increase in bycatch and drop in valuable fish species 4. Over fishing and drop in catch of traditional fishermen due to speed trawling and bull trawling 5. Exploitation of mangroves for developing housing and commercial projects 6. Plastic pollution , improper treatment of sewage, poor garbage management in coastal areas 7. Absence of proper sewage treatment plants 8. Non-enactment of proper rules and regulations for ban on fisheries

	Recommendations	<p>Meeting the officers of the pollution control board to find out their problems in addressing the pollution related issues of the selected village. Meeting the officers of department of fisheries to discuss about acquisition of fishing grounds by ONGC, illegal fishing by purse sieners from Gujarat coast, and interference by middlemen in price fixing. Preparing a report based on the discussion with such officers as SWACHH BHARAT campaign.</p> <p>Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details.</p> <p>Improving the base line information</p> <p>Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.</p>
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## Thane ( Maharashtra) Village Development

GROUP 4	Dr. K Pani Prasad, Dr. Gaurav Rathore, Dr. Sanath Kumar H., Mr. Pankaj Kumar, Dr. Gireesh Babu, Dr. G. Tripathi,
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1	Name of the Scientist	Dr. K Pani Prasad, Dr. Gaurav Rathore, Dr. Sanath Kumar H., Mr. Pankaj Kumar, Dr. Gireesh Babu, Dr. G. Tripathi
	Name of the Institute/ Agricultural University/Station	ICAR-CIFE Mumbai

	Name of the Identified Village:	Agvan, Dehne, Kapsi, Pale, Sakhare,
	Post Office	Agvan, Vangaon, Gowne
	Block	Dahanu
	District	Palgher-Thane

Major Problems	Agvan, Dehne, Kapsi, Pale, Sakhare
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Rice ( Sakhare)	Ghundi bug, Blast disease				
Pulses (Pale)	Yellow stem borer				
Garlic	Wilt, white rusting, [Leaf miner, Rusting( Sakhare)]				
Chiku	Stem borer	Cow	Non descriptive, Repeat breeding(Pale), Inbreeding	Fish Ponds	Disease & electricity problem
Mango	Mango hopper	Buffalo	FMD disease, heat stress, Inbreeding, Mestitis, non- descript, local disease		
Lady finger	Cut worms	Goat	Heavy warm load		
Toor	Leaf miner	Poultry	Low productivity		
Coconut	Fruit borer	Unavailability of labour, Water mixing problems, and Degraded water, Salty water, Pest infestation in crops, Water scarcity (Dehne, Kapsi)			

	Recommendations	<p>Meeting with ATMA, KVK and local organization to facilitate work on agriculture, aquaculture and livestock to address the problems, like, degraded water, salty water, and pest infestation in crops along with diseases in livestock.</p> <p>Improving the base line information</p> <p>Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details.</p> <p>Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.</p>
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**GROUP 5** Dr.Neelam Saharan, Mr. M. A. Pathan, Mr. Dhamotharan K, Dr. Md. Aklakur, Dr. Martin Xavier K.A

	Name of the Scientist(s)	Dr.Neelam Saharan[Team Leader] Mr. M. A. Pathan Mr. Dhamotharan K Dr. Md. Aklakur Dr. Martin Xavier K.A (Coordinator)
	Name of the Institute/ Agricultural University/Station	ICAR-CIFE Mumbai

	Name of the Identified Villages:	Gaydhara, Kolipada, Bhekarmaak, Ajnup
	Post Office	NA
	Block	Shahapur
	District	Thane

Major Problems	Gaydhara, Kolipada, Bhekarmaak, Ajnup
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Rice[Gaydhara]	Water scarcity and Disease	Cow, buffalo , backyard poultry, sheep, goat [Gaydhara]	Disease	Fisheries	Drought in April – May, [Gaydhara and Ajnup] No fish ponds, only some streams[Kolipada ]

	Recommendations	Meeting the ATMA and KVK officers of the respective area to find out their problems in addressing issues of the selected village. Preparing a report based on the discussion with such officers as SWACHH BHARAT campaign. Improving the base line information
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<b>GROUP 6</b>	Dr.Chandra Prakash, Dr.Ashutosh D Deo, Dr.Suryakant Patil, Mr. Shashi Bhushan, Dr. Mukunda Goswami
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	Name of the Scientist(s)	Dr.Chandra Prakash[Team Leader] Dr.Ashutosh D Deo Dr.Suryakant Patil Mr. Shashi Bhushan Dr. Mukunda Goswami[Coordinator]
	Name of the Institute/ Agricultural University/Station	ICAR-CIFE Mumbai

	Name of the Identified Villages:	Arnala, Besseinkoliwada, Diwala, Kalamb, Panchubandar
	Post Office	NA
	Block	Vasai
	District	Thane

Major Problems	Arnala, Besseinkoliwada, Diwala, Kalamb, Panchubandar
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Nil	Nil	Nil	Nil	Fisheries	Marginal profit, Uncertain return

	Recommendations	Meeting the ATMA and KVK officers of the respective area to find out their problems in addressing issues of the selected village. Preparing a report based on the discussion with such officers as SWACHH BHARAT campaign. Improving the base line information
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Raigad ( Maharashtra) Village Development

<b>GROUP 7</b>	Rupam Sharma, Megha Bedekar, Pavan Kumar, Kundan Kumar
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Name of the Scientist	Rupam Sharma[Team leader] Megha Bedekar Pavan Kumar Kundan Kumar [Coordinator]
Name of the Institute/ Agricultural University/Station	ICAR-Central Institute of Fisheries Education, Deemed University, Mumbai-400061.

Name of the Identified Village:	Karanja, Kunde, Pagote, Navghar, Nagaon
Post Office	JNPT
Block	Uran
District	Raigad

Major Problems	Karanja, Kunde, Pagote, Navghar, Nagaon
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Crops/ Horticulture Crops/ Agro-forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Olericulture- Brinjal, Bendi [Nagaon]	Nil	Backyard poultry [Kunde, 120no, Pagote, 240no, Navghar, 10no, Nagaon, 200no]	Nil	Community pond[Karanja, 1no, Kunde, 1 no]	Lack of technical knowledge on fish processing[Karanja] Lack of Jetty [Kunde]
		Livestock[Nagaon , 10no]			
			General Problem: Unemployment and Under employment, Non availability of Drinking water[Navghar, Nagaon],		

Recommendations	Meeting the officers of ATMA, local organization and KVK to discuss on poultry and aquaculture. Initiating MAKE IN INDIA and SWACHH BHARAT programmes in fish processing and product development. Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details.
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		Improving the base line information Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.
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<b>GROUP 8</b>	Dr. Latha Shenoy, Dr. Geetanjali, Dr. Asha Landge, Dr. Vidyashree Bharati, Ms. Neha Wajahat
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Name of the Scientist	Dr. Latha Shenoy (Team Leader) Dr. Geetanjali (Co-ordinator) Dr. Asha Landge Dr. Vidyashree Bharati Ms. Neha Wajahat
Name of the Institute/ Agricultural University/Station	ICAR-Central Institute of Fisheries Education, Deemed University, Mumbai-400061.

Name of the Identified Village:	Washi, Shahabaz, Sonkhar
Block	Pen(171 vill), Alibagh(281 vill), Roha (162 vill)
District	Raigad
Raigad district has a population of 2,634,200 that includes several Schedule tribes. There are 8 subdivisions, 15 tehsils and 1970 villages.	

Major Problems	Washi, Shahabaz, Sonkhar
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Crops	Livestock Category	Fisheries	Major Problems
Nil	Nil	There are more than 1200 farm ponds in Raigad district. Washi near Pen has culture ponds while Shahabaz has paddy cum fish culture along with capture fisheries. Poynad is popular for seed collection for Asian Sea bass and Sonkhar has farm pond activities.	Less availability of fish seed of Asian Seabass mainly due to the nearby JSW steel plant. Disease outbreaks. Shortage of fish seed of Indian Major Carps (IMC)

	Recommendations	Meeting with ATMA and KVK to discuss about fish processing Improving the base line information Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details. Preparing a report based on the discussion with such officers and
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		submit by 10 Nov, 2015.
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<b>GROUP 9</b>	Dr. A. K. Verma, Dr. Nagalakshmi, Ms. Rathi Bhuvaneshwari, Ms. Jeena, Mr. Manish Jayant
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	Name of the Scientist(s)	Dr. A. K. Verma [Team Leader] Dr. Nagalakshmi Ms. Rathi Bhuvaneshwari Ms. Jeena Mr. Manish Jayant [Coordinator]
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	Name of the Identified Villages:	Inglun, Kalhat, Kasha, Nigade, Boire
	Post Office	NA
	Block	NA
	District	Vadgaon, Pune

Major Problems	Inglun, Kalhat, Kasha, Nigade, Boire
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Paddy[Inglun, Kalhat, Kasha, Nigade, Boire ]	Diseases: Stem borer, blight Labour scarcity Water scarcity (2 months before summer)	Ox/ bull, Cow, Buffalo, Goat	Poor economic conditions, Unproductive/ Sterile, Unbalanced diet causing nutrient deficiency syndrome (mineral deficiency), poor fodder	Nil	Nil
Wheat	Nil				
Gram	Nil				
		Conversion of agricultural land for non-agricultural purposes, mainly industrialization and residential purposes, Poor socio economic status of villagers, No workers for agriculture as people prefer to work as a labour in industries as they get good wages, Irregular rainfall, Soil is less fertile hence require high input of fertilizer, Lack of improved seed varieties availability			

	Recommendations	Meeting with ATMA and KVK to discuss about fish processing Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details. Improving the base line information Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.
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Rohtak ( Haryana)

GROUP 10 V. Harikrishna, S. Arun Sudhagar

1	Name of the Scientist	V. Harikrishna, Scientist, S. Arun Sudhagar, Scientist
	Name of the Institute/ Agricultural University/Station	ICAR-CIFE Centre Rohtak; Dist. Rohtak

	Name of the Identified Villages:	Lahli, Baniyani and Bainsi [Block: Lakhan Maira]
	Post Office	Anawal
	Block	Kalanaur
	District	Rohtak

Major Problems Lahli, Baniyani and Bainsi

Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Rice, Wheat, Sugarcane, Sorgham fodder [Lahli , Baniyani] Rice, wheat, cotton, sugarcane [Bainsi]	Plant Hoppers, Stem borers, Poor rain fall [Rice] Unpredicted Rain fall [Wheat] Termite, Stem Borer and Root Borer [Sugarcane] [Lahli and Baniyani] Poor irrigation, salinity, stem rot, foot rot, brown hopper[Rice], Karnal bunt, loose smut, flat smut[wheat];	Cow, buffalo, sheep, goats, pig[Lahli Baniyani and Baiynsi]	Mineral deficiency [Lahli] Mastitis; Anoestrus [ Baniyani] Buffalo abortion [Bainse]	7 farmers adopted [4ha shrimp farming, 2ha Psngasius, 4ha community pond for IMC][Lahli] 7 farmers[8ha inland saline shrimp farm [Baniyani] 5 farmers [5.7 ha community pond	Mineral deficiency and high hardness in shrimp farming; Bottom pollution in community based village ponds; and High Input Cost in Pangasius Farming[Lahli] Mineral deficiency and high calcium level [Baniyani]. Bottom pollution[ Baiyansi]

	[Baniyani] Yellow fly in cotton[Baiynsi]				
			General Problem: Drinking water, poor electricity, water logging, and soil salinization[Lahli and Baiyansi] Poor irrigation, salinity, low support prices[ Baniyani and Baiyansi]		

	Recommendations	Meeting with ATMA, KVK and local organization to facilitate work on agriculture, aquaculture and livestock Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details. Improving the base line information Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.
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Hoshangabad (M. P.)

<b>GROUP 11</b>	Dr. Somdutt, Dr. Sunil Kumar Nayak
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1	Name of the Scientist	Dr. Somdutt, Dr. Sunil Kumar Nayak
	Name of the Institute/ Agricultural University/Station	ICAR-CIFE Centre Powarkheda; Dist. Hoshangabad

	Name of the Identified Villages:	Diwla khedi, Jaisalpure, Nitaya, Chandrapura
	Post Office	Vill. Nimsaria
	Block	Hoshangabad
	District	Hoshangabad (M.P.)

Major Problems	Diwla khedi, Jaisalpure, Nitaya, Chandrapura
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
Paddy, wheat, mango, guava,	Nil	Cow, buffalo, goats[Diwla	Nil	Leased in pond	Fish culture of IMC is done along with

vegetables [Diwla khedi, Jaisalpure] Paddy, wheat, vegetables [Nitaya, Chandrapura ]		khedi, Jaisalpure Nitaya, Chandrapura]		[Jaisalpure] Circular hatchery[Nitaya, Chandrapura]	Singhada crop without much inputs [Jaisalpure]
			General Problem: Poor road, Lack of local health care centre, Irregular electricity supply, Lack of public transportation		

	Recommendations	Meeting with ATMA, KVK and local organization to facilitate work on agriculture, aquaculture and livestock Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details. Improving the base line information Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.
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#### East Godavari (A. P.) Village Development

<b>GROUP 12</b>	Dr. Muralidhar P. Ande, Mrs. K. Syamala, Dr. T. I. Chanu, Dr. Arun Sharma
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1	Name of the Scientists	Dr. Muralidhar P. Ande– Team Leader Mrs. K. Syamala Dr. T. I. Chanu Dr. Arun Sharma- Coordinator
	Name of the Institute/ Agricultural University/Station	ICAR- CIFE, Kakinada centre

	Name of the Identified Village:	Biccavolu
	Post Office	Biccavolu
	Block	Biccavolu
	District	East Godavari District, Andhra Pradesh

Major Problems	Biccavolu
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Crops/ Horticulture Crops/ Agro- forestry	Major Problems	Livestock Category	Major Problems	Fisheries	Major Problems
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Paddy [Biccavolu]	Nil	Cow, buffalo, sheep, goats, pigs, poultry [Biccavolu]	Nil	90 ha, 39 Ponds, 200 farmers, (mainly dealing with fish hatchery and fish fry and fingerling rearing) [Biccavolu]	Poor marketing of fish seed; Fish diseases [Biccavolu]
			General Problem: Irregular power supply; Sanitary problem ( SWACHH BHARAT), Agriculture: Pest problem; Rodents/ Rats problem; Sudden Cyclone; Floods; Marketing Problem[Biccavolu]		

	Recommendations	Meeting with ATMA, KVK and local organization to facilitate work on agriculture, aquaculture and livestock Prepare the list of fishers/farmers who are going to participate in the goshti/meets to disseminate the knowledge along with their mobile-contact details. Improving the base line information Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.
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#### South 24 Parganas (W. B.) Village Development

<b>GROUP 13</b>	Team I: Dr. B. K. Mahapatra, Dr. A. R. Sen, Dr. S. Datta, Dr. S. Munilkumar Team II: Dr. G. H. Pailan, Dr. P. Sardar, Dr. S. Dasgupta, Mr. Dilip Kumar Singh,
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1	Name of the Scientists	Team I: Dr. B. K. Mahapatra, OIC & P.S. [Team Leader] Dr. A. R. Sen, P. S. Dr. S. Datta, P. S. Dr. S. Munilkumar, P.S. [Coordinator]  Team II: Dr. G. H. Pailan, P.S. [Team Leader] Dr. P. Sardar, P.S. Dr. S. Dasgupta, S.S. Mr. Dilip Kumar Singh, Scientist. [Coordinator]
	Name of the Institute/ Agricultural University/Station	ICAR- CIFE, Kolkata centre

Major Problems	Paruldaha, Dandapur, Moutola, Jayatala, Dhamnagar [Team I] Kalikapur, Natagachi, Kustia, Arapanch, Langalbaria [Team II]
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Crops/ Horticulture Crops/ Agro- forestry	Major Proble ms	Livestock Category	Major Problems	Fisheries	Major Problems
NA	NA	NA	NA	Fish farming is important	No development of recharge structures near ponds, tanks etc. Poor quality fingerlings production Poor domestic market, exports and support structure for cold storage will give a major boost to this sector.
				Ornamental fishery	improper water quality health hazards

	Recommendations	<p>Meeting with ATMA, KVK and local organization to facilitate work on agriculture, aquaculture and livestock</p> <p>Prepare the list of fishers/farmers who are going to participate in the goshthi/meets to disseminate the knowledge along with their mobile-contact details.</p> <p>Improving the base line information</p> <p>Preparing a report based on the discussion with such officers and submit by 10 Nov, 2015.</p>
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