

NATIONAL AGRO FOUNDATION



Towards Rural Prosperity

2017 - 18

ANNUAL REPORT

*Promoting farmers welfare through
Farmers Producer Organizations (FPOS)*

www.nationalagro.org



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Message from Managing Trustee



Dear friends & well-wishers,

Welcome to the National Agro Foundation Annual Report of 2017!

17 years ago, we had set out our vision to 'create a healthy, literate and a prosperous rural India' with prime focus on sustainable agriculture development and had a humble start. While we adhere to our larger vision, mission, and approaches, we constantly upgraded our work to adapt to contemporary challenges. Now, NAF is an organization with multiple components and the major share of our effort portfolio is to empower our beneficiaries through natural resources management, building the resilience of agricultural system against climate change vulnerabilities imparting green skills & organizational skills for different stakeholders to build the capacity of community organizations as well as harnessing the potentials of digital technologies. Our strategic partnership efforts have now started to take deep root in the corporate sector through CSR, as we collaborate to utilize our mutual strengths for the benefit of the rural society. The partnership has grown in such a way that the Corporate agencies with whom we work are recognized in various forums including winning CSR awards for the developmental initiatives.

Last year, NAF's major emphasis was on "Promoting farmers' welfare through Farmers Producer Organizations (FPOs)". NAF recognizes the potentials of the FPO concept to make agriculture, economically viable for small farm holders and help them with potential backward and forward market linkages. NAF facilitates around 20 FPOs to successfully achieve business sustainability. NAF has also developed an innovative digital platform 'KANCHI' to improve the functional efficiency of the FPOs by digitizing the business operations. At the same time, our efforts towards other focus areas of Natural resource Management, Social Development initiatives, agricultural development activities, analytics and consultancy services, skill development & capacity building programmes, awareness generation campaigns, etc., continue to benefit the community across different parts of the Country as before. All our efforts were channeled through the framework of the 4E model, which focus on advancing and strengthening the interdependent and mutually reinforcing pillars of sustainable development; 'Education', 'Economy', 'Environment' & 'Empowerment' to innovative and develop replicable solutions to the complex and interlinked social- economic- environmental challenges of today's rural India.

This year has been very successful for NAF. We fostered collaborations with new partners, reached out to most needy beneficiaries through our projects, provided analytical and consultancy services through our cutting-edge Research and Development center, built the human assets in agriculture & rural sector. Our Front Line Demonstration (FLD) farms demonstrated the impact of Lean Farming on the increased productivity of crops and the resultant profits for the farmers. NAF got few recognitions this year for its performance in the fields of water and agriculture development. NAF won NABARD's state level 'First Prize' for successful implementation of Nugumbal watershed project in Kancheepuram district. NAF innovation "KANCHI" was shortlisted as one of the top 10 innovations in the Global Competition

"Our strategic partnership efforts have now started to take deep root in the corporate sector through CSR, as we collaborate to utilize our mutual strengths for the benefit of the rural society"

"Last year, NAF's major emphasis was on "Promoting farmers' welfare through Farmers Producer Organizations (FPOs)"

"In coming years, NAF would like to leverage its vintage and resources to work on the complex areas like climate change mitigation, land & water management, reducing widening inequality, Digital technology solutions, etc.,"

in the Global APAgTech Summit 2017 held at Vishakhapatnam. Such recognitions motivate us to work better for the prosperity of the rural community.

In coming years, NAF would like to leverage its vintage and resources to work on complex areas like climate change mitigation, land & water management, reducing widening inequality, Digital technology solutions, etc.,

This year annual report will provide some of the select accomplishments of different functional divisions of NAF (Agricultural division, NRM division, Training, and capacity building division, Social Development division and Analytical & laboratory division in detail) in further sections. Our outreach efforts made and actions set in motion this year will yield results in the ensuing year. At the same time, some of the successes mentioned in this year report may be a flow from the previous year's effort. So, this annual report is a snapshot of this year from a long video of NAF's work.

All these achievements would not have been possible without an active & supportive team, partners with similar vision & philosophy, the conducive environment created by the government at all levels and most importantly, the people with whom and for whom we work. I am immensely grateful for all the support & contributions made by all the stakeholders towards achieving our shared vision. My sincere thanks to the Board of Trustees of NAF and the Execution Team for their unstinting support and cooperation. Happy Reading!

S S Rajsekar,

Managing Trustee, NAF

About NAF

Who we are

National Agro Foundation (NAF) was established in 2000 by **Late Shri C Subramaniam** (Bharat Ratna Awardee & Architect of India's Green Revolution), and was further nurtured by **Dr A P J Abdul Kalam** (as Chairman of NAF Governing Council), for comprehensive agriculture and rural development with prime focus on transforming the direction of the Indian agriculture **from “production oriented” to “market-oriented”** or in the words of Mr. Subramaniam from **‘seed to grain’ to ‘soil to market’**.



Vision

To create a “Healthy, Literate and Prosperous Rural India”



Mission

“Creating replicable models of prosperous rural clusters through ecologically safe, environmentally sustainable farm and non-farm sector activities, natural resource management, rural enterprises and human resource development by networking various stakeholders through mutually beneficial partnerships.”

To explore our diversified rural development initiatives and to contribute towards creation of a prosperous Rural India, please visit our website

www.nationalagro.org

Outreach



Agri & Analytical services

Rajasthan, Uttar Pradesh, Madhya Pradesh, Maharashtra, Karnataka, Kerala, Arunachal Pradesh, Assam, West Bengal, Chattisgarh, Andhra Pradesh, Telangana, Tamil Nadu



Project hubs

Odisha, Maharashtra, Andhra Pradesh, Tamil Nadu



R & D center

Tamil Nadu



Consultancy services for Rural Development

Tamil Nadu, Andhra Pradesh, Madhya Pradesh



Knowledge partner

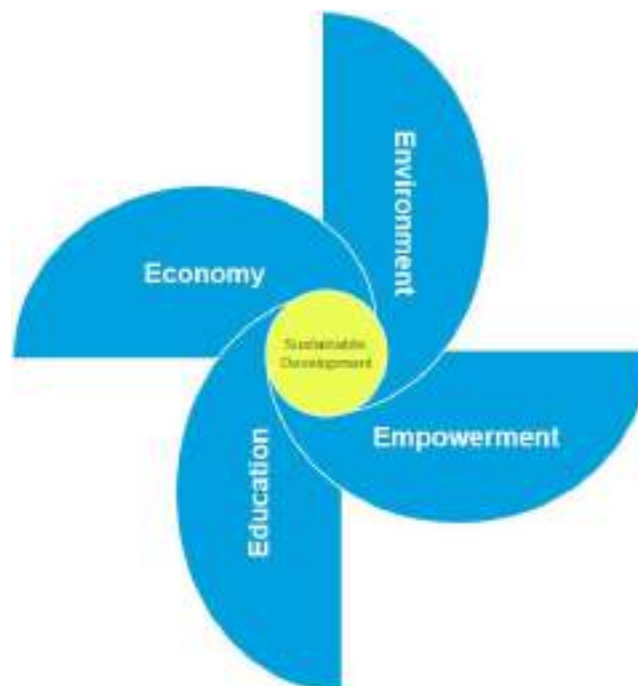
Uttar Pradesh



Strategy highlights

4 E Approach:

NAF believes that sustainable development is about recognizing, understanding and acting on interconnections—between the thematic areas of education, economy, environment and empowerment.



Sustainable Livelihoods Approach:

The idea of **assets** is central to the sustainable livelihoods approach. Rather than understanding poverty as simply a lack of income, the sustainable livelihoods approach considers the assets that poor people need in order to sustain an adequate income to live.



Holistic Approach:

The integration of watershed management efforts with that of other areas such as agricultural development, social development, etc., incorporation of cutting-edge science and technology, and extensive Training and capacity building activities.

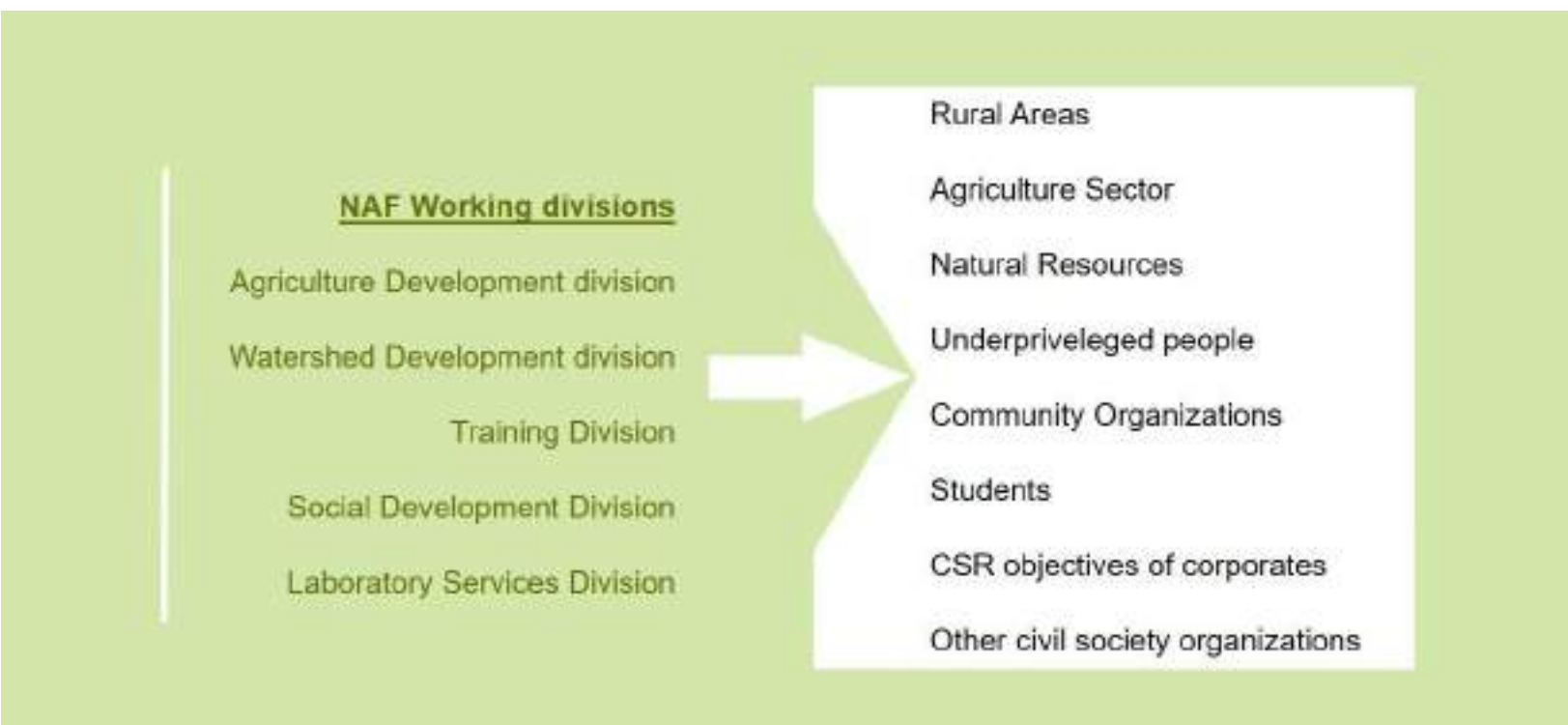


Sequential approach:

All developmental areas are included in a sequential process of development and interventions are made in order. Each developmental area is considered separately and also integrated around a unifying theme to which all of the activities are connected.



Key Work Areas



Achievements highlights in numbers (Since inception)

Output

Number of Agriculture and Rural Development projects implemented	Number of States (provincial territory) covered	Number of Households Reached	Number of Villages reached
93	14	57000+	770
Agri-preneurs (Agriculture Entrepreneurs) Trained	Number of Farmers Trained	Number of Farmer Producer companies (FPC) promoted	Number of soil Samples tested in our lab
620	73118	20 (Around 1000 farmers in each FPC)	24549
Total Area treated through Watershed Development Projects	Number of soil & water management interventions made	Number of Agricultural Demonstration fields established	Number of partner Organization
24326 Ha	278	2165	30+

Outcome

Productivity levels of various crops improved by	Profit of Farmers increased by	Crop intensity increased by	Milk productivity of the dairy farmers increased by
15-50%	25-75%	145%	300%
Number of micro enterprise set up in Rural and agri sector	Number of grass root level community organizations formed	Average increase in water table in the project areas	Income increased through off-farm and non-farm livelihoods intervention
500+	300+	3.5-4 Meters	20-25%

Agricultural Development for farmers' wellbeing



KVIC
LUMV PROJECT
പ്രോജക്ട് നമ്പർ : 100/2016
തീയതി : 25.02.2016

NAF's Intervention spectrum spread across soil to market. In other words, it focusses both on the agricultural production and agricultural marketing system. Further extending the intervention spectrum, consumers were also targeted through activities of food safety laboratory to spread the importance of food safety and hygiene.

NAF's focus on the improvement of agricultural productivity will make it economically viable and can play a major role in rural employment generation.

Agriculture Development Division

We recognize the fundamental role of agriculture to improve rural livelihoods, reduce poverty, contribute to the nation's economy and ensure food and nutrition security for all.

To strengthen this crucial agricultural system, we focus on the key challenges like environmental degradation, climate change related issues, market imperfections & volatilities, price fluctuations, sustainability issues, the poor skill level of farmers and lack of rural infrastructure.

Our intervention model attempts broadly to make the farming system economically viable and ecologically sustainable. Also, every effort of our implementation team strives to involve the targeted beneficiaries from the project planning phase to the project exit phase.

Areas of Focus:

We work in the following strategic areas that we believe will address the local problems and ground realities faced by farming families in the project areas.

Promoting and nurturing Agri-businesses run by farmers (FPOs)

Providing advisory and consultancy services to other stakeholders.

Training, Technology, Extension & Analytical services for Agricultural productivity improvement.

Empowering the farmers with the knowledge, tools and technologies to improve their livelihoods and tap the maximum potential from the agricultural system.

Demonstrating and implementing climate smart agriculture to reduce the climate change related vulnerabilities of the farmers by improving their adaptive capacity.

1. SUSTAINABLE AGRICULTURE PROMOTION – A CSR PROJECT OF APOLLO TYRES FOUNDATION

NAF in collaboration with Apollo Tyres Foundation is implementing a project on **Sustainable Agriculture** in Eraiyur village, Sriperumbudur block of Kancheepuram District. The project has sub components such as training, frontline demonstration, the establishment of models, chain link wire fencing, and revolving funds for farmers club which helps in augmenting the production and productivity. Intensive technical training was imparted at Centre for Rural Development, NAF, Illedu to equip the farmers with Lean Farming Technologies which is essential for Sustainable Agriculture. Awareness program for the Farmers club members was conducted at Eraiyur village on dovetailing different Government schemes of line Departments of Agriculture. To meet out the emergency expenses of the farmers especially for uninterrupted farming activities, Rs. 2,00,000/- have been sanctioned in the project as Revolving Fund. Models such as Azolla and vermicomposting units were established in Eraiyur village for the supply of organic inputs to the village.



Revolving funds for farmers club were provided through Apollo tyres foundation to help them to take extra effort to shift to sustainable agricultural practices.



Pic: Farmer learning making organic inputs



Pic: Training on raising seedling in shade net



Pic: Training through farm school



Pic: Training on Natueco farming

2. PROJECT ON 'WATER MANAGEMENT INITIATIVES IN RURAL INDIA'- A CSR PROJECT OF I NAUTIX TECHNOLOGIES

In continuation to Flood Rehabilitation Project implemented in the year 2016–17, a project on water management has been implemented in Kancheepuram and Thiruvallur districts of Tamilnadu and Pune district of Maharashtra. Following activities were undertaken:



20 lakh liters of rainwater have been harvested during last year because of the desilting of water bodies in the project area. A total areas of **7133 cft of area** of water bodies were desilted.

Soil and water conservation and Natural Resource Management

A check dam has been constructed on Anaikattu canal at Padirivedu to check the water flow in canals and make the water available for irrigation. To feed the water bodies, the inlet channel has been rejuvenated which was abandoned for a couple of decades. Channel clearance and rejuvenation of water bodies were also undertaken as part of soil and water conservation measures. The total volume of earthwork excavated through de-silting is 7,133 cft in order to enhance the water holding capacity of the water bodies. There was a rainfall of 160mm during October 2017, as predicted. 20 lakh liters of rainwater was harvested during the last one year. This has benefited over 150 acres of land belonging to 65 farmers

As tree planting is one of the mitigation measures to combat climate change, tree planting was done in iNautix project villages of kancheepuram and Thiruvallur districts. In Kancheepuram district, 700 plants were planted at V.K.Agaram, Vilampattu and Pudupattu villages. 1500 plants were planted in common ponds, village streets, individual house premises, and schools.



Pic: A farm pond constructed in Madarpakkam



Pic: Village people planting trees

3. PROMOTION OF CLIMATE SMART AGRICULTURE

As a part of promoting climate smart agriculture, training was imparted to farmers. Awareness Campaign on Climate Smart Agriculture was conducted in V.K.Agaram, Villampattu, Pathirivedu, Madharpakkam and Kolwadi villages. This was followed by the establishment of frontline demonstrations and critical inputs were distributed. 15 lead farmers have established FLDs and the crops are at various stages of growth.



Climate smart agricultural practices were promoted through setting up of Front Line Demonstration farms in the project area.

Establishment of Common Service centre at Kolwadi, Pune:

As part of empowering farmers and reduce the drudgery, a community farm machinery center has been established in Kolwadi village of Pune district. The following machinery has been given as part of the farm machinery center and the community has been entrusted to maintain the center.

S.No	Items	Quantity (Nos)
1	Mahindra 32 H.P mini tractor	1
2	Rotavator	1
3	Cultivator	1
4	Plain paddy thrasher 25 H.P	1
5	Battery operated sprayer	6

Community operated Common Service Centers were set up to rent out the farm machineries.

During the discussion with the farmers, it was decided to form a group and register with the Government. Accordingly, the group was registered with the Department of Agriculture, Government of Maharashtra and the machinery have been purchased. Registration is under progress for the tractor.



Pg.

Agriculture Development Division

Pic: Field demonstration of System of Rice Intensification

Pic: Distribution of critical input to farmers

Climate Smart Agriculture (CSA) projects

Agriculture is one of the major segments which contribute to greenhouse gas emissions resulting in Climate Change. Efforts are being made by various agencies to contribute to climate change mitigation measures. This has been taken up as a priority area by NAF since last year. Lean Farming, a method perfected by NAF has been promoted as part of climate smart agriculture (CSA) to combat climate change. Climate-smart agriculture has been promoted among the lead farmers of FPOs in different districts of Tamil nadu. These projects have been implemented with support from the following corporate agencies as part of CSR.

NAF partnered with NABARD and corporates to promote Lean farming techniques to increase the resilience of the farmers to the climate change impacts.

S No	Name of the project	Sponsor agency
1	Lean farming for environmentally safe crop productivity improvement	Pershing India Limited
2	Lean farming for Climate Smart Agriculture	Bahwan Cyber Ttek
3	Lean Farming for Climate Smart Agriculture	KLA Tencor

36 frontline demonstrations have been established on climate-smart agriculture. These FLDs have been established through FPOs which were created under support from NABARD.

36 Frontline Demonstration farms have been established to promote climate smart agricultural practices in 5

Sl.no	District	FPO Block	KLA Tencor	Pershing	BCT	Total
1	Kancheepuram	Chitamur and Lathur	2	-	2	4
2		Mafdurantakam and Acharapakkam	2	-	1	3
3		Gummidipoondi 1	-	5	-	5
4	Thiruvallur	Gummidipoondi 2	-	-	2	4
5		Sholavaram	-	-	3	4
6	Thiruvannamalai	Thellar	-	5		5
7	Villupuram	Marakanam	-	-	4	4
8		Olakur	-	5	-	5
9	Cuddalore	Kattumannar Koil	5	-	-	5
		Total	9	15	12	36

Around 25 lead farmers were given training in various components of climate smart agriculture during pre-season camp.

Preseason camps

Preseason camps have been conducted to create awareness among the farmers about Lean Farming Technologies and make them be prepared to arrange all the inputs well in advance before the start of the season. In these programs, subjects like soil health management, seed treatment, Integrated Nutrient management, Integrated Pest Management, and climate smart agricultural technologies were explained clearly to the farmers. Demonstrations on seed treatment and preparation of organic formulations were also done to make the farmers aware of such skills. Around 25 lead farmers participated in each of the program villages.



Pic: Pre-season Camp

Farmers were advised to focus on the micro nutrient deficiency problem in their soil to achieve maximum productivity by applying optimal amount of fertilizers.

Frontline Demonstrations

Soil samples have been taken and the FLD farmers have been trained with Climate Smart Agriculture technologies. Soil test based recommendations were provided to the farmers. Critical inputs like Micronutrients were provided to the FLD farmers as per the recommendations of soil test reports.

Field monitoring and Expert's advisory sessions

All the FLDs are regularly monitored by field coordinators. Agri Experts also visits the FLDs and providing need-based field advises.



Pic: NAF expert visiting farms



NAF expert examining health of crops

Field Day



Pic: Farmers see the impact of intervention during 'Field day'

Field Day programs are conducted on FLDs by assembling the lead farmers. The Lean farming technologies followed by the FLD farmer were explained by him and the scientific reasons behind each technology were explained by NAF Expert.

4. PROMOTION OF RENEWABLE ENERGY

Installation of Solar street lights

To promote renewable energy sources in the community as a part of climate change adaptation and mitigation initiatives, solar street lights were installed in Thiruvallur and Kancheepuram district villages of the project. Before installation, potential places for solar street lights were identified by the NAF team. From the list, 20 places were scrutinized based on necessity, priority and the community's interest in maintaining the systems. The following are the places where solar street lights were installed:

20 solar street lights were installed with an objective of promoting renewable energy

S.no	District	Name of the village	School	Temple	Street	Total
1	Kancheepuram	V K Agaram	1	1	2	4
2		Pudupettai	-	1	2	3
3		Vilampattu	-	2	1	3
4	Thiruvallur	Padhirivedu (Irular colony)	-	-	5	5
5		Nemalur	-	-	5	5
		Total	1	4	15	20



Figure 1 Local beneficiaries under newly setup solar street light



5. NAF AS KNOWLEDGE PARTNER AGENCY FOR HCL FOUNDATION

NAF provided technical support to HCL foundation team and farmer beneficiaries of the HCL foundation's Samuday project

NAF has been engaged as Technical Support Agency by HCL Foundation for their project "Samudhay" in Uttar Pradesh. In the first phase, this project was implemented in the Kachauna block of Hardoi district covering 2000 farmers. The subject matter expert of NAF was stationed in UP to offer on-farm advisory services in the project area. Apart from this, NAF offered other advisory services including Project Implementation strategies, monitoring, and evaluation, marketing, and post-project sustainability. The project has been expanded to two more blocks covering 6000 farmers in Hardoi district. HCL Foundation is planning to expand its operations in Andhra Pradesh and Tamilnadu in near future.

Services provided under the project

1. Field advisory services on improved farming practices
2. Demonstration of important agri technologies
3. Integrated Pest management advisory
4. Comprehensive Disease management advisory
5. Harvest and post-harvest techniques
6. Guiding the market team and field team on factors to be considered in the marketing of Fruits and vegetables
7. Training on Marketing Quality Standards of Agriculture produces
8. Analysis of Market feasibility, technical feasibility, and implementation feasibility
9. Analysis of Result Evaluation Framework
10. Conceptualization of Model village project
11. Training of Trainers
12. Project planning and implementation strategies for Kharif and Rabi season for 2017–18
13. Guidance on institution building
14. Action plan for a future course of actions for replication and scaling up

NAF is impacting 2000 farmers in Hardoi district, Uttar Pradesh through HCL Foundation's Project Samudhay

NAF expertise for the project

NAF engaged a team of experts for the project with domain expertise on both on the farm and off-farm mode. One expert was be deputed at the project site for both Kharif and Rabi season to provide technical advisory services.

Exposure training

NAF has provided one exposure training to the selected team members of HCLF on Marketing of vegetables, Institution Building, Custom Hiring center and Value Addition of farm produce.



Pic: Advisory services to HCL foundation team



Pic: On filed advice to Farmer beneficiary

6. MODEL FARM PROJECT AT MAGUDANCHAVADI

A land which was kept uncultivated turned into a model farm land with the initiatives of Shanmuganathan Kanagavalli Charitable Trust and NAF. In the model farm, paddy was cultivated using SRI method and lean farming techniques.

Shanmuganathan Kanagavalli Charitable Trust is working on various social welfare schemes in Magudanchavadi panchayat in Salem district. The Trust was interested in developing Model farm in their 1.5 acres of own land situated in Kupbandipalayam village of Magudanchavadi panchayat. The land has been kept idle for several years. They wanted to convert this farm into a model farm. NAF offered advisory services including soil health diagnosis as well as periodic monitoring services. As per the request of the Trust, NAF has suggested a cropping plan. Since the irrigation water is saline in nature, Paddy and Ragi were recommended. The first crop Paddy has been raised as per the recommendations and advice of NAF Experts. Paddy was cultivated under the SRI method by following Lean Farming Techs.

Critical inputs were arranged by NAF as per the recommendation of soil and water test reports. NAF Experts visited the field on regular basis and provided necessary field advice.

The total yield of 17700 kg from 90 cents of land which is 1967 kg/acre was realized. The Trust has planned to do value addition to the produce to increase the profit margin. The grains were supplied to rice mill to make parboiled rice which is under process in a rice mill. In addition, the paddy straw has been sold for Rs. 6000/-



Photo: Farmer practicing SRI technique



Photo: Farmer spraying Panchakavyam (Inside pic: panchakavyam prepared by farmer)

7. WATER AND AGRICULTURE DEVELOPMENT PROJECT- A CSR PROJECT WITH OERLIKON FRICTION SYSTEMS

In Thiruvallur District, three villages namely Perumalkuppam, Chinnampedu, and Pondhavakkam were selected to implement Water and Agriculture initiatives.



Awareness program

The awareness program was conducted in the selected villages to sensitize the people about the objectives, donor and implementing Agency of the project. Awareness generation programmes about Farmers Club was also conducted to congregate the people as an Institution. It was suggested to the farmers to select 20 volunteers in each village for the formation of farmers club with one member as president, secretary, and treasurer for each of the Farmers club.

Preseason camp

Preseason camp has been conducted to make the farmers aware of Lean Farming Technologies and prepared them to arrange all the inputs well in advance before the start of the season.

In this program, subjects like soil health management, seed treatment; integrated nutrient management, integrated pest management, and climate-smart agricultural technologies were explained to the farmers. Demonstrations on seed treatment and preparation of organic formulations were also done to make the farmers aware of such technologies and skills. About 25 lead farmers participated in the program.

Frontline Demonstrations

Fifteen lead farmers were selected for establishing Front Line Demonstrations at the rate of five farmers from each village. Based on the criteria of farmers selection Field inspection was done by NAF Experts Team to find out the suitability of farmers field for establishing FLDs. Soil samples were taken from the selected fields and sent to NAF Soil Testing Lab for comprehensive soil analysis. Based on the soil test report, the recommendation was provided from the NAF domain expert. All the farmers opted paddy as demo crop for the first season. Accordingly, Critical inputs like Micronutrients were provided to the FLD farmers as per the recommendation of the soil test report. To popularize integrated pest management practices low-cost Pheromone traps were provided which attract yellow stem borer male moths and yellow sticky trap which traps sucking insects in the FLD fields.

Field monitoring and Expert advice

All the FLDs are regularly monitored by field coordinators. Agri Experts are also visiting the FLDs and providing need-based field advises. Timely application of micronutrients and timely execution of intercultural operations are also ensured by NAF field officers. The FLDs are underway and are expected to be completed by the first week of April 2018.



Photo: Awareness Program at Perumalkuppam



Photo: Field monitoring cum advisory by NAF experts

Agri-Business initiatives

1. Promotion and nurturing of Farmer Producer Organizations



NAF has been empanelled as Resource Institution by Small Farmer Agri Business Consortium (SFAC), Ministry of Agriculture, GoI for promoting and nurturing Farmers Producer Organizations. Further to this, TNSFAC, Government of Tamilnadu has signed a Memorandum of Agreement with NAF for forming 4 FPOs in Tamil nadu. All 4 FPOs have been formed and registered as Company.



Photo: Awareness meeting to form Farmer Interest Group



Photo: Exposure visit of farmers to oil extraction unit



Photo: Exposure visit to Valwill Sudesi's production unit



Photo: Raja Desingh farmer Producer Company's Dall processing mill



Photo: Custom hiring center of Thangathamurai FPO



Equity Grant Received from Central SFAC Delhi for Raja Desingh FPCL



Photo: Valwill Sudesi FPO Participated in World Food Expo



Agri Input Center, Thangathamurai FPO

Details of FPOs supported by SFAC:

Sl. No	Name of the FPO	District	Block	No of farmers enrolled	No. of villages covered	Amount of Share capital collection	Crop/ Produce	Business Plan prepared	Business Activity Commenced	No. of BODs training conducted	No. of exposure visits	No. of TOT Training	FLDs completed
1	Eriyur Manimutha	Villupuram	Gingee	1000	25	10 lakhs	Pulses	1.Dhall mill proposal 2.Input center proposal	Input center, Oil Expeller	5	7	4	180
2	Raja desingh	Villupuram	Chinna salem	1000	18	10 lakhs	Pulses	1.Input centre proposal 2.Dhall mill proposal	Input center, crop loan. grocery shops, Dall Mill Processing	5	6	4	120
3	Thanga Thamarai	Salem	Mechery	1051	38	10.51 Lakhs	Pulses	1.Dhall mill proposal 2.Input center proposal 3.Custom hiring center	Input center, Custom hiring center, Seed Production	5	5	4	180
4	ValvilSudesi	Namakkal	Rasi puram	1000	37	10 Lakhs	Millets and pulses	1.Input center proposal 2.Millets processing unit	Millets value addition	4	4	3	120

FPOs supported thorough SFAC

Out of 4 FPOs, 3 FPOs have started Input Supply Center as one of their main business activities. In input supply centers agrochemicals like fertilizers and pesticides are being sold to member farmers. Also, these FPOs are in the process of expanding their business. Suitable business plans are being prepared with assistance from banks and financial institutions. M/s Thanga Thamarai Farmers Producer Company in Salem and Raja Desingu FPC in Gingee block of Villupuram district is in the process of establishment of Dhall Mill as value addition units. M/s Valwill Sudehi FPC of Namakkal are into the making of millet-based sweets, snacks, and savories.

New FPOs

TNSFAC has sanctioned additional 6 FPOs for NAF wherein similar activities of formation, nurturing, strengthening, and handholding would be carried out in 6 districts as follows, out of 6 FPO's One FPO has registered as Company, another 5 FPO's are under process for registration.



Pic: TNSFAC sanctioning 6 FPOs promotion projects

S No	Name of the FPO	Name of the district	Crop	No. of villages covered	No of farmers enrolled	Amount of Share capital collection
1	UTTHIRAAMERUR	Kancheepuram	Groundnut	40	1000	5 Lakh
2	MINJUR FPCL	Thiruvallur	Pulses	17	1000	1 Lakh
3	JARUKAMALAI FPCL	Salem	Millets / flowers	8	975	1.5 Lakh
4	ALANGYAM	Vellore	Pulses / vegetables	12	460	2 Lakh
5	RESAHE FPCL	Krishnagiri	Pulses / flowers	12	919	1 Lakh
6	HIGH HILLS	Nilgiris	Tea	30	1000	0.6 Lakh

Table: List of new FPOs



Photo: Board of Directors meeting of Uthiramerur FPC



Photo: Board of Dorectos meeting at Jarukamalai FPC

FPOs promoted through NABARD

Similarly, NABARD has also empanelled NAF as one of the Resource Institutions for the promotion of FPOs in Tamil nadu. NAF has signed a MoU with NABARD for forming 10 FPOs in 5 districts of Tamil nadu at an outlay of Rs.90 lakhs. The details are as follows:



Name of the FPO	Total No of BODs training conducted	Total no. of exposure visits	Total No. of TOT Training	Business plan	
				Business activity	Turnover
Acharapakkam& Madurantakam	1	2	2	Input center	0.5 lakhs
Lathur&Chithamur	1	2	2	Input center	2lakhs
Marakanam watermelon	1	2	2	Input center	5 lakhs
Olakkur	1	2	2	Vegetables grading and collection	Just commenced
Thellaru	1	2	2	Input center	2 lakhs
Gummidipoondi good luck	1	2	2	Input center	Just commenced
Puratchideepam	1	2	2	Input center	Just commenced
Sholavaram	1	2	2	Vegetable grading and collection and marketing	70 lakhs
VeeraRajendrachoZHANAR	1	0	0	Input center, Mushroom	1.5 lakhs
Panruti	1	1	2	-	Just commenced



Photo: Input center opening at Sholavaram FPC



Photo: Input center opening at Olakur FPC

EQUITY GRANT SANCTION FROM STATE SFAC AND CENTRAL SFAC:

2 FPOs promoted by NAF received equity grant of INR 10 lakhs from Central and state SFACs

The Government of India / Government of Tamil nadu is extending assistance in the form of equity grant assistance up to 10 lakhs for mature FPOs. TNSFAC has sanctioned INR 5 lakhs each to Thangathamari FPO in Salem district, Raja Desingh FPO in Villupuram district and Eriyur Manimutha FPO who are showing better performance.

Similarly, these FPOs had applied for equity grant assistance from Central SFAC. Thangathamari FPO and Raja Desingu FPO have got the additional assistance of INR 5 lakhs each from Central SFAC.

Both the FPOs are in the process of establishment of Dhal Mill. This grant assistance in addition to the bank loans would be used for establishment of the Dhal Mill. The Dhal Mills are in advanced stages of establishment.



Pic: TNSFAC provides equity grant of INR 5 Lakhs

*NAF facilitated
Thangathamarai FPO
to get loan worth INR
1 Crore from
NABKISAN*

SFAC CREDIT GUARANTEE LINKAGE:

Thangathamarai FPO (TTFPCL) has proposed to start the Dal Mill processing unit with an outlay of Rs.1.00 Crore. Nabkisan has come forward to finance the project with an interest rate of 11% after scrutinizing the DPR and conducting background verification studies. TTFPCL has sought the SFAC for issuing Credit guarantee cover for its project sanctioning. SFAC after conducting a detailed survey on projects had given consent to issue credit guarantee cover for 85.00 Lakhs. Nabkisan has sanctioned a loan of Rs.1 crore.



Pic: NABKISAN provides credit worth INR 1 crore for Thangathamarai FPO

CREDIT LINKAGE:

NAF has also facilitated credit linkage for Raja Desingu FPO for INR 80 Lakhs for its Dal Mill Unit from Pallavan Grama Bank (PGB), Salem. It was the first FPO got sanctioned loan facility from PGB from Tamilnadu. NAF has also handheld the following FPOs to apply for loans for value addition/processing unit with Pallavan Grama Bank for the following FPOs

1. Olakur FPO, NABARD – Input Center - Rs.34.00 Lakhs
2. Thellar FPO, NABARD – Cold Press Oil unit – Rs 10.00 Lakhs
3. EriyurManimutha FPO – Mini Dal Mill Unit – Rs 65.00 Lakhs
4. SholavaramFPO – Rs. 40.00 Lakhs
5. Lathur&Chithamur FPO- Rs.20.00 lakhs

Pallavan Grama Bank has provided credit worth INR 80 Lakh and NAF helped FPOs to apply for credit worth INR 169 Lakhs to Pallavan Grama Bank Lakhs



Pallavan Grama Bank provides credit worth INR 80 Lakh to Raja Desingu FPO

MARKET LINKAGE ARRANGEMENTS:

NAF has also arranged for market tie-up agreement with the following retail companies who have agreed to procure produce/commodity from FPOs promoted by NAF.

Sholavaram FPO is supplying commodities worth INR 15000 to 20000 daily to Way Cool Fresh Pvt., Limited.

1. **Way cool fresh limited** – a company which is working on B2B and B2C models to sell vegetables and fruits. Sholavaram FPO, promoted by NAF under NABARD assistance has already been linked with this company and the FPO is supplying vegetables and greens worth Rs.15000/- to 20000/- on a daily basis. Other FPOs dealing with vegetables will also link with retail outlets in the coming years.

2. **Linevan retails and a trading company limited** - The FPOs promoted under SFAC who are into pulses production and value addition would be linked to this company for the supply of dhals and millets. The linkage is set to take off shortly.

KANCHI- A DIGITAL SOLUTION FOR FARMER PRODUCER COMPANIES- IN PARTNERSHIP WITH CDFI

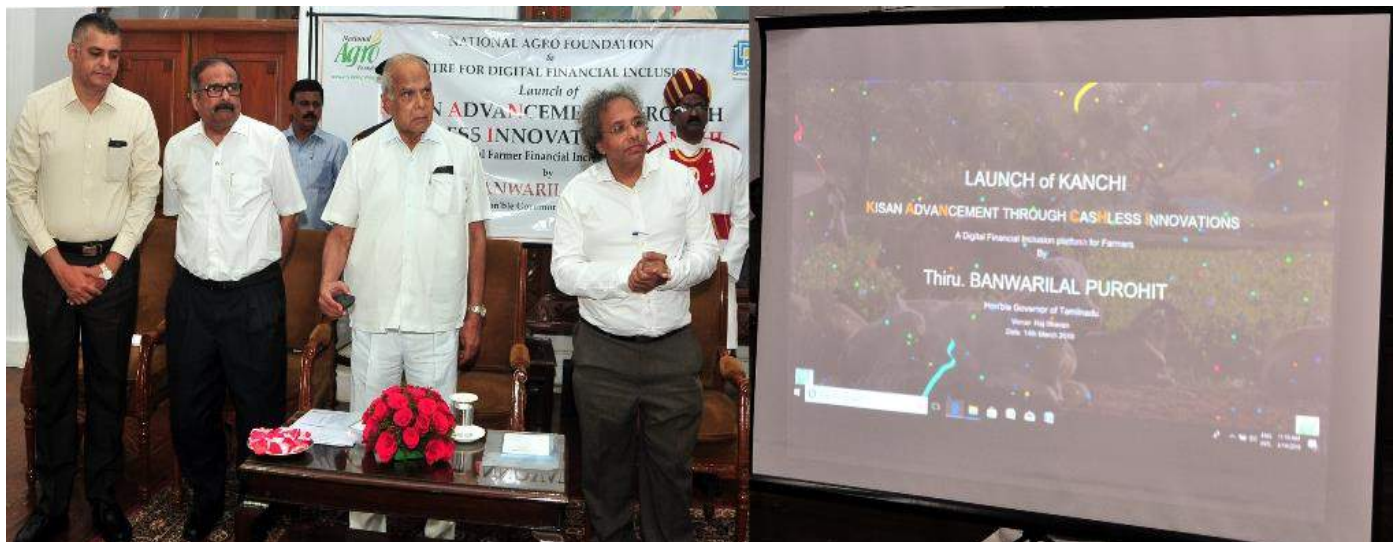


Figure 2 Hon'ble Governor of Tamil Nadu, Thiru. Banwarilal Purohit launching KANCHI planform

So far, data of 15000 farmers entered into the Farmer Depository Component of KANCHI, 9030 digital share certificates were issued, 8 Milk Aggregation Centers collect milk from 500 members using Milk through Imap (Milk Aggregator Portal) Application of KANCHI.

KANCHI (Kisan Advancement through Cashless Innovation) was developed through Flexicode Technologies Limited, a Chennai based software company with support from New Delhi based Center for Digital Financial Inclusion. The platform aims to bridge the gap between formal financial institutions and the rural community especially farmers and women and improving access to credit from banks through credible transaction history, enabling cashless transactions of business operations of SHGs, Dairy Cooperatives, Farmers Groups and FPOs. This would help bankers to serve rural customers better. The platform also helps in the share management system of FPOs wherein small and marginal farmers are shareholders, Lending, and Recovery of loans of SHGs and FPOs as well as transactions of milk aggregators of the dairy cooperative.

Components of KANCHI:

- FIS (Farmer Inventory System)
- FDR (Farmer Data Repository)
- ICD (Input Center Digitization)
- Plant clinic portal

Image: Digital Share certificate issued to farmers through KANCHI

Image: Screen shot of KANCHI's Farmer Data Repository

Image: Screen shot of KANCHI's Farmer's registration page

Pg.

Agriculture Development Division

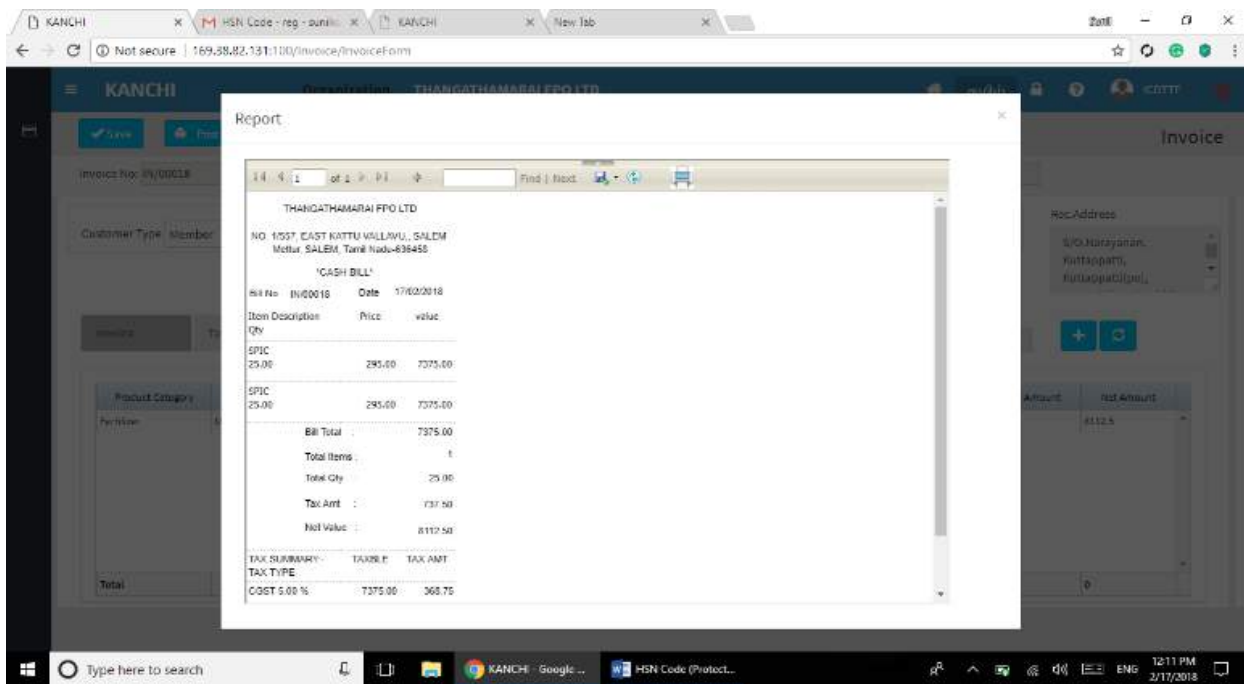


Image: Screen shot of KANCHI's billing module of Input center

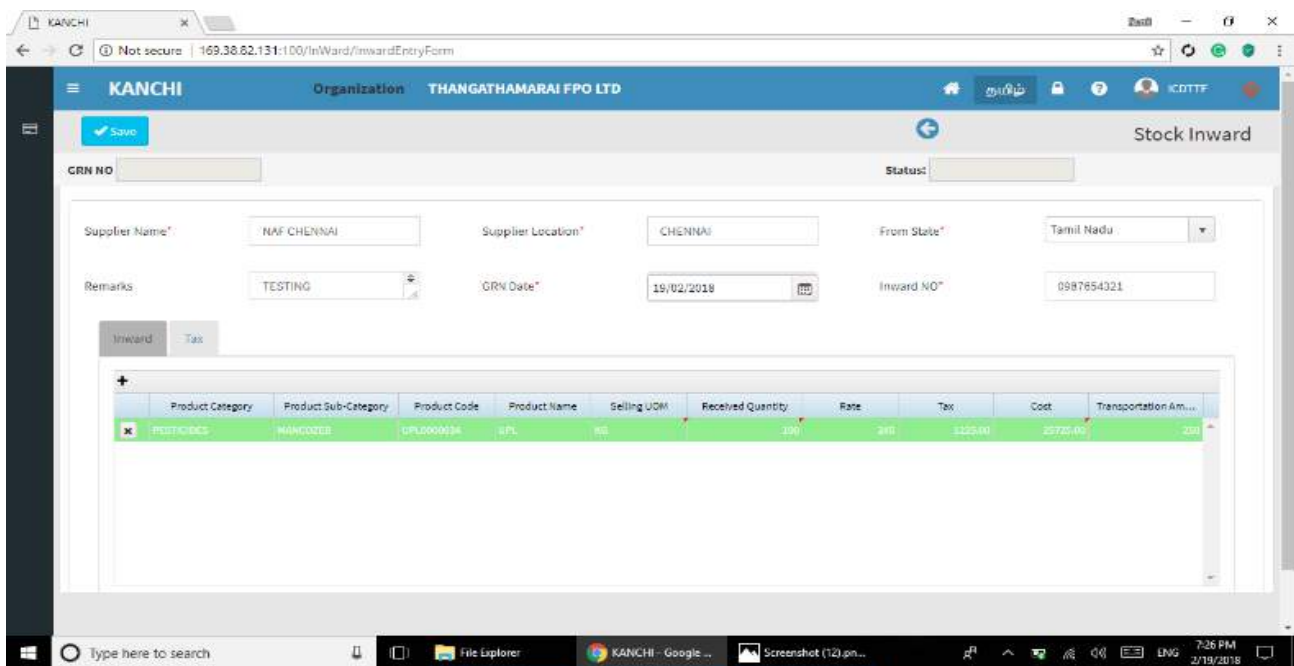


Image: Screenshot of Stock entry module of KANCHI



Pic: Farmer attending Plant clinic



Pic: Pest identification using digital microscope

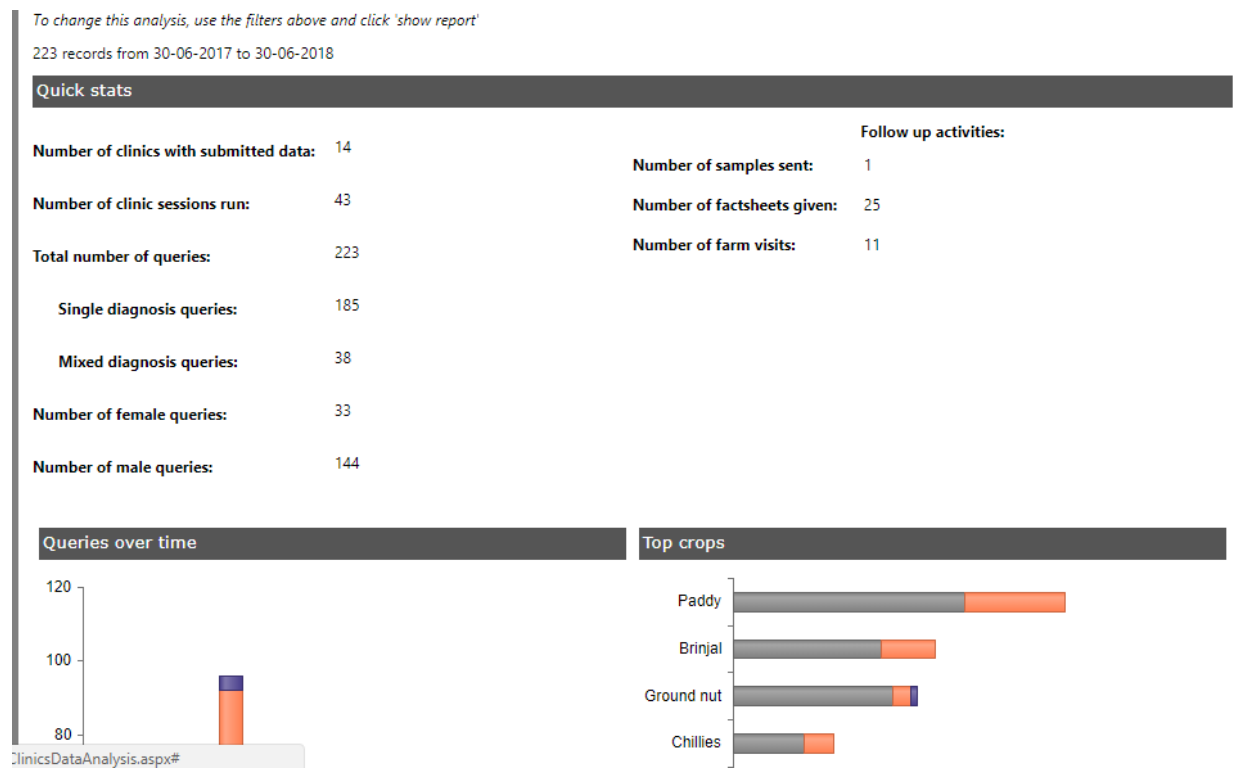


Image: Screenshot of data analysis done through Plan clinic module of KANCHI

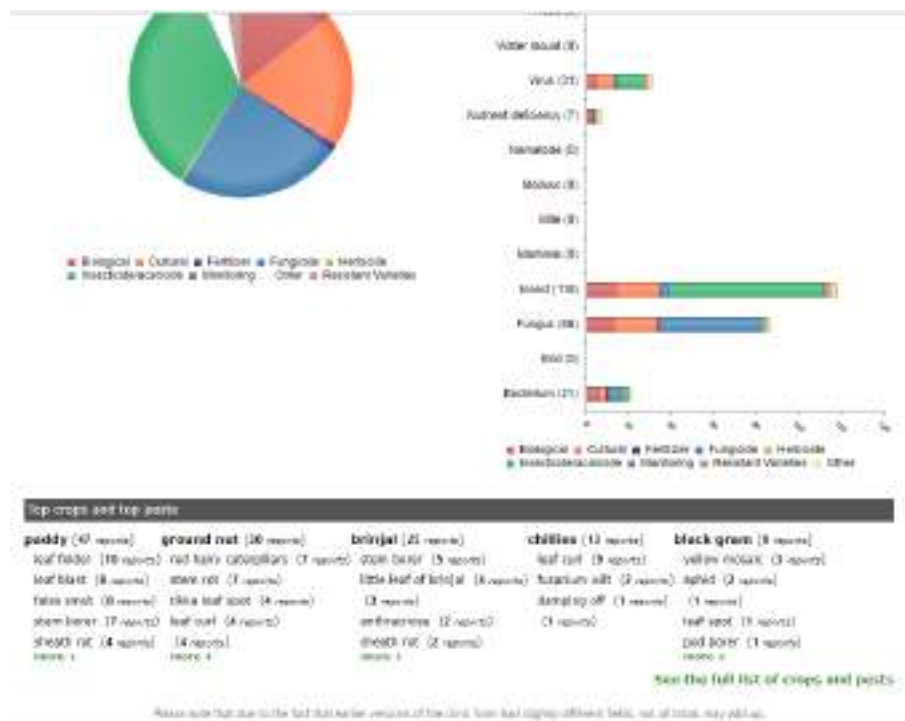


Image: Screen shot of analysis done through plan clinic module of KANCHI

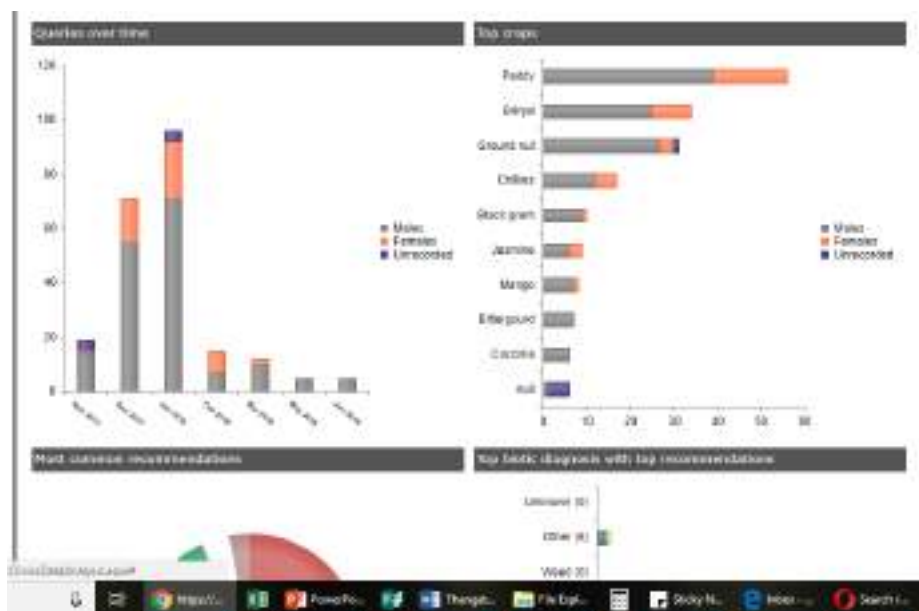


Image: screenshot of data analysis done through plant clinic module of KANCHI

FDR-Farmer Data Repository component of KANCHI:

This is at the core of the platform as the repository digitally stores all relevant personal, KYC and banking details along with income and expenditure levels of the farmer households. So far, 15000 FDR data was entered into the system.

FIS – Farmer Inventory System:

This module digitizes and manages processes related to FPO Share Capital and Investments besides handling Farmer Investor requests & grievances. So far, 9030 digital share certificates were issued.

MAP – Milk Aggregation Portal

MAP seamlessly digitizes the entire milk supply aggregation from Milkman to the chilling plant and the corresponding payment cycle through the use of the mobile app and a web portal. So far 8 Milk Aggregation Centers collect Milk from 500 members through the Imap App (Android App).



Pic: Milk collection center using the app



Milk Aggregation Portal (MAP) application

ICD – Input Center Digitization

ICD is another Module from KANCHI in which all the FPO Centers with Input center as one of Business activity, digitalized the business process through this platform. All the payments are made through the BHIIM application. At present, Thangathamarai Farmer Producer Company has gone live with ICD Module & Soon all other FPO's with Input Centers will be started.

LRS – Lending & Recovery System

This module enables devising loan schemes, credit appraisal, disbursement, recovery & credit rating at a farmer level. At present this platform is being used by two FPO's.

Reclaiming
Watersheds
for sustainable
development

Watershed Development Division

Watershed management interventions such as soil and water conservation (SWC) and water harvesting are crucial to improving the natural asset of an area. As a result, there will be an increase in overall biomass, productivity, cropping frequency, irrigation sources, livestock, livelihoods opportunity etc.,

*Treating **Agricultural watersheds** will result in **increased resilience** of small land holding farmers through **enhanced ecosystem services**.*

Watershed management technologies have proven to be effective in reducing soil erosion on slopes by making the water run-off to walk-off and a walk-off to sink in, stabilizing landscapes, recharging the groundwater, increasing the surface water availability, improving agricultural production system, etc.,

NAF's watershed team effectively manages the biophysical, socio-economic and institutional components of the watershed to generate sustainable livelihoods for the dependent people.

Watershed management is a holistic concept, which tries to achieve the best possible balance in the ecosystem between natural resources on the one side, and human and other living beings on the other. NAF applies a multidisciplinary & multi-sectoral approach, using scientific knowledge from different fields and a combination of technologies, strategies, and techniques to create maximum possible benefit.

*Effective treatment of watershed will ensure the sustainability of **land based resources** and act as bedrock of **Sustainable Development practices**.*



Original Condition

**After rejuvenation
and creation of Check
Dams**

**Water stored after
single day rainfall**

Projects details:

Sl. No.	Name of the Watershed	District & State	No. of villages covered	Total Area (Ha)	No. of Families covered	Funding support
1.	Arasur	Kancheepuram, TN	7	1170	750	NABARD and Govt., of TN
2.	Nugumbal	Kancheepuram, TN	5	1356	1200	NABARD and Govt., of TN
3.	Sirukalathur	Kancheepuram, TN	4	1005	1350	NABARD and Govt., of TN
4.	Othivilagam	Kancheepuram, TN	4	1097	1100	NABARD and Gov., of TN
5.	Chettipalayam	Coimbatore, TN	4	1277	2514	L&T
6.	Pappampatti	Coimbatore, TN	4	1220	2212	L&T
7.	KN Palayam	Erode, TN	3	1300	1500	Bannari Amman Sugars
8.	Melpennathur	Thiruvannamalai, TN	4	1560	2550	Bannari Amman Sugars
9.	Kuppachiparai	Krishnagiri, TN	3	1150	1350	Rotary International and NABARD
10.	Pulleri	Kancheepuram, TN	4	1350	1560	VA Tech WABAG
11.	Edaiyur	Kancheepuram, TN	5	1526	1612	TATA Capital
12.	Kokkaranthangal	Kancheepuram, TN	4	1381	1327	L&T Tech Services
13.	Kolvadi	Pune, MH	5	1500	850	L&T Tech Services
14.	Kotteri	Cuddalore, TN	3	1100	1150	TITAN
15.	Thandakarankuppam	Cuddalore, TN	3	1200	1250	TITAN
16.	Kolathankurichi	Cuddalore, TN	3	1150	1300	TITAN
17.	Narumanam	Cuddalore, TN	3	1100	1250	TITAN
18.	Villiyannallur	Cuddalore, TN	4	1419	2312	IL&FS
19.	Pichivakkam	Kancheepuram, TN				NABARD & SAINT GOBAIN
20.	Arasur - CP	Kancheepuram, TN	0	0	0	NABARD
21.	Nugumbal - CP	Kancheepuram, TN	0	0	0	NABARD
22.	Sirukalathur - CP	Kancheepuram, TN	0	0	0	NABARD
23.	Othivilagam - CP	Kancheepuram, TN	0	0	0	NABARD
24.	Kolvadi WS+	Pune, MH	0	0	0	L&T Tech Services
25.	Madarpakkam	Thiruvallur, TN	2	715	1200	iNautix
26.	Arani	Thiruvallur, TN	3	750	450	Oerlikon Metco
27.	Arasur - SP	Kancheepuram, TN	0	0	0	NABARD
		Total	77	24326	28787	

Activities:

1. Natural Resource Management.
2. Productivity Enhancement Measurement.
3. Training.

4. Livelihood Support.

**Project wise Output details:**

1. WATERSHED PROJECTS UNDER NABARD WDF IN KANCHEEPURAM DISTRICT, TAMIL NADU.

S. No	Details of Activities carried out	Units	Apr 17 - Mar 18	Since inception
1	Formation of field bund	Cum	79110.26	229154.4
2	Deep tilling (Chiseling)	Ha	-	374.052
3	Disc Plough	Ha	122.05	99.625
4	Farm Pond	Cum	1819.6	19031.73
5	Cattle pond	Cum	-	11820.82
6	Sunken Pond	Cum	-	845.25
7	Water absorption trenches	Cum	-	1709.81
8	Continuous contour trenches	Cum	-	18
9	Channel formation and deepening	Cum	3647.5	80957.42
10	Loose boulder structures	Cum	74.67	60 (Different sizes)
11	Check Dams		1	4 (Different sizes)
12	Agro horticulture	Nos	-	47690
13	Agro forestry	Nos	-	83690
14	Check Weir	Nos	1	1
15	De-silting of village ponds	Cum	-	1 (600 Cum)
16	Channel sterilizer / Regulator	Nos	-	1
17	Eri De-silting	Cum	-	79936.6
18	Percolation Pond	Cum	-	18123.5
19	Renovation of Sirukalathur Pond	Cum	-	2499
20	Renovation of Thenneripattu&sitheri	Cum	-	15592.8
21	Baby Pond	Cum	-	8925
22	Sluice	Nos	-	1
23	Kitchen Garden	Nos	330	330
23	MIS Tank	Cum	-	2250
24	Man-days	Nos	2279	67351

Livelihood promotion: Under the livelihoods component, the stakeholders who did not benefit from other components of the watershed development projects were given first preference. The existing SHGs were supported with the revolving fund and from the revolving fund, the member was given with micro credits. 598 women beneficiaries were given with microcredits to start various entrepreneurial and income generation activities like milch animals, goat rearing, tailoring shop, flower shop, bakery, provisional store, etc.,

Maintenance Fund: Maintenance fund has been collected from the beneficiaries of these four watershed areas. It is deposited in the savings bank account of Village Watershed Committee (VWC) of each watershed. In total, Rs.37.27

lakhs has been collected as a Maintenance fund. Fixed Deposit: Out of the total maintenance fund collected from the farmers, Rs.14.15 lakhs has been deposited under the Fixed Deposit scheme.

Productivity Enhancement Measures (PEM): Under PEM measures, Rs.16.82 Lakhs has been sanctioned. This has been used as the Revolving Fund by giving a loan to the needy farmers. Tissue culture banana (1 beneficiary) and Vegetable farming activities (8 beneficiaries) were supported through PEM.



2. WATERSHED PROJECTS SUPPORTED BY L&T, COIMBATORE DT., TAMIL NADU:

S. No	Details of Activities carried out	UoM	Apr 17- Mar 18	Since inception
1	Formation of field bund	RM	10528.8	34043.3
2	Deep tilling (Chiseling)	Ha.	75.5	170.99
3	Disc Plough	Ha.	75.5	169.83
4	Farm Pond	m3	2455.428	8687.283
5	Channel formation and deepening	m3	5749.25	17232.87
6	Gabion Check Dam	m3	39.01	120.41
7	Check Dam 8.0	Nos	1	5
8	Check dam 8.5	Nos	1	5
9	Check dam 10	Nos	2	6
10	Agro horticulture	Nos	760	2610
11	Agro forestry	Nos	2360	3510
12	Percolation Pond	m3	596.63	2026.71
13	De-silting of water bodies	M3	0	6587.48
14	Training cum exposure visit	Nos	2	6
15	Recharge bore	Nos	0	4

Treatment details of Chettipalayam Watershed



Photo: Check dam design to control the breaching



Photo: Water harvesting structure constructed in the project site

S. No	Details of Activities carried out	UoM	Apr 17- Mar 18	Since inception
1	Formation of field bund	RM	7544	23120.7
2	Deep tilling (Chiseling)	Ha.	60.197	237.807
3	Disc Plough	Ha.	60.197	235.547
4	Farm Pond	m3	791.33	10338.875
5	Channel formation and deepening	m3	9210.12	27480.186
6	Gabion Check Dam	m3	49.57	109.28
7	Check dam 8.5	Nos	1	7
8	Agro horticulture	Nos	3008	4933
9	Agro forestry	Nos	1425	3500
10	Percolation Pond	m3	1296.71	8829.4
11	Training cum exposure visit	Nos	2	6
12	Recharge bore	Nos	0	4

Treatment details of Papampatti Watershed



Photo: Water absorption Trench and field bund



Photo: Water stream after the project



Photo: One of the trustee of NAF doing monitoring and evaluation visit



Photo: FGD during NAF team's Monitoring and Evaluation visit

3. WATERSHED PROJECTS SUPPORTED BY BANNARI AMMAN SUGARS IN ERODE & THIRUVANNAMALAI DISTRICTS, TAMILNADU



S.No	Details of Activities carried out	UoM	Apr 17 - Mar 18	Since inception
1	Field bund	CUM	8574	8574
2	Chisel Plough	Ha.	6.23	6.23
3	Agro Horticulture	Nos	525	525
5	Agro forestry(AF)	Nos	1975	1975
6	Repair Percolation Tank	CUM	1900.92	1900.92
7	Silt Detention pit	CUM	312.22	312.22
8	Channel formation	CUM	2578.89	2578.89
9	Gabion Check Dam	Nos	6	6
10	Masonry Check Dam	Nos	1	1

Treatment details of KN palayam watershed, Erode

S.No	Details of Activities carried out	UoM	Apr 17 - Mar 18	Since Inception
1	Cattle pond	Cum	2400.00	2400.00
2	Channel formation and deepening	Cum	1358.00	1358.00
3	Percolation Pond	Cum	937.5	937.5

Treatment details of Melpennathur watershed, Thiruvannamalai



Photo: Percolation pond of Melpennathur while construction



Photo: Percolation pond of Melpennathur after construction

4. WATERSHED PROJECT AT EDAIYUR WATERSHED SUPPORTED BY TATA CAPITAL

TATA CAPITAL

We only do what's right for you

S.No	Details of Activities carried out	UoM	Apr 17 - Mar 18	Since inception
1	Solar Street Light	Nos	20	20
2	VWC Meeting	Nos	4	4
3	Intensive Technical Training	Nos	1	1
4	Training Exposure Visit	Nos	1	1



Photo: PRA activities during the participatory project planning phase



Photo: Solar street light installed in village common place



Photo: Intensive technical training to village community



5. KUPPACHIPARAI WATERSHED PROJECTS SUPPORTED BY ROTARY INTERNATIONAL

S.No	Details of Activities carried out	UoM	Apr 17 - Mar 18	Since inception
1	Field bund (0.42)	CUM	3174	4136
2	Field Bund Pipe Outlet	Nos	21	21
3	Chisel Plough	Ha.	16.07	32
4	Farm Pond	CUM	-	225
5	Farm pond inlet and Outlet -1 Nos	Nos	1	1
6	Agro Horticulture(AH)	Nos	3907	3907
7	Agro forestry	Nos	3364	3364
8	Water Absorption Trench (WAT)	CUM	1000	1000
9	Channel Formation	CUM	1948	1948
10	Loose Boulder Structures	RM	120	120
11	Desilting of Eri	CUM	1722.83	4000



Photo: Rotary club members visiting project site



Photo: NAF experts, rotary club members and NABARD DDM joint visit to project site



Photo: Water harvested after project



Photo: Water stored in field after making of field bund

6. PULLERI WATERSHED PROJECTS SUPPORTED BY VA TECH WABAG,
KANCHIPURAM DT., TAMIL NADU



S.No	Details of Activities carried out	UoM	Apr 17 - Mar 18	Since inception
1	Field bund	CUM	1779.67	1779.67
2	Chisel Plough	Ha.	5.88	5.88
3	Channel formation	CUM	4765.47	4765.47
4	Water Absorption Trench (WAT)	CUM	1835.7	1835.7
5	Sunken Pond	CUM	103.43	103.43
6	Agro Forestry	Nos	2426	2426
7	Agro Horticulture	Nos	1375	1375
8	Farm pond	CUM	2088	2088
9	Cattle Pond	CUM	2000	2000
10	Check dam	Nos	1	1
11	Sunken Pond Inlet & Out let	Nos	1	1
12	Loose Rock Check Dam	CUM	4.32	4.32



Photo: Cattle pond constructed through the project



Photo: Farm pond constructed through the project



Photo: Water flow in cleared channel



Photos: Village community planting agroforestry trees along the water stream

7. WATERSHED PROJECTS SUPPORTED BY L&T TECH SERVICES IN KOLVADI, MAHARASHTRA
AND KANCHIPURAM DISTRICT, TAMIL NADU



S.No	Details of Activities carried out	UoM	Apr 17 -Mar 18	Since inception
1	Watershed training and Exposure - 40 participants per batch	Nos	1	2
2	Training to Mahilapanisamithi	Nos	1	1
3	IGP	Nos	50	50
4	Meeting	Nos	6	10
5	VWC Training	Nos	1	1
6	EDP training	Nos	2	2
7	SHG Exposure	Nos	1	1
8	Cattle Camp	Nos	2	3
9	Health camp	Nos	1	2
10	Check Dam -12.5	Nos	2	4
11	Channel Cleaning	Cum	800	800
12	Farm Pond	Cum	6152.1	13413.4
13	Village Pond	Cum	900	1421.5



Photo: Farmers on exposure visit



Photo: Farm equipment to farmers at CFRD



Photo: Drinking water well before intervention



Photo: Drinking water well after intervention



Photo: Chairs provided to schools under EPA



Photo: A gate was set up for the school under EPA



Photo: Check dam site before project



Photo: After construction of check dam



Photo: Site before farm pond



Photo: Site after farm pond

S.No.	Entry Point Activity	UoM	Apr 17 – Mar 18	The amount in Rs.
Kokkaranthangal				
1.	Computer to school	Nos.	1	35000
2.	Books to the school library	Nos.	82	10000
Amandhakaranai				
3.	Computer to school	Nos.	1	35000
4.	Books to the school library	Nos.	82	10000
5.	Rain gauge	Nos.	1	25000
Arcadu				
6.	Computer to school	Nos.	1	35000
7.	Books to the school library	Nos.	82	10000
Bhudhur				
8.	Computer to school	Nos.	1	35000
9.	Rain gauge	Nos.	1	25000
10.	LCD Projector to school	Nos.	1	37000
Total				257000

EPA activities in Kokkaranthangal watershed



Photo: Projector provided to school under EPA



Photo: School materials provided to school children



8. WATERSHED PROJECTS SUPPORTED BY TITAN AND NABARD IN CUDDALORE DISTRICT, TAMILNADU.

S.No	Details of Activities carried out	UoM	Apr 17 – Mar 18	Since inception
1	Field Bund	Cum	600.00	600.00
2	Cattle pond	Cum	1371.95	1371.95
3	Farm pond	Cum	3181.32	3181.32
4	Channel formation	Cum	1869.56	1869.56
5	Exposure visit	No's	4	4
6	Meeting conducted	No's	28	28



Photo: Farm pond in the project area



Photo: Cattle pond after excavation

9. WATERSHED PROJECTS SUPPORTED BY NALANDA FOUNDATION AND IL&FS IN CUDDALORE DISTRICT, TAMILNADU



S.No	Details of Activities carried out	UoM	Apr 17 – Mar 18	Since inception
1	Farm pond	Cum	1075	1075
2	Exposure visit	No's	2	2
3	Soil Sample Collected	No's	160	160
4	Kitchen Garden	No's	250	250
5	Meeting Conducted	No's	4	4



Farm pond constructed on field



Fallow land turned into productive after project



Photo: Desilting of lake during project



Photo: Desilted Lake after project implementation

Climate Change mitigation and adaptation initiatives:

With climate change impacting the livelihoods of a vulnerable community, NAF has taken up a climate change adaptation program for the current year as the focal area. Accordingly, several initiatives have been undertaken. NABARD has sanctioned four watershed projects under climate proofing initiatives. Initiatives would include natural resource management, weather-based advisory, crop diversification, alternate livelihood, and crop insurance. Training and capacity building is an integral component of the project.

NAF has started Climate proofing project with the help of NABARD in the watershed projects areas to maintain and augment the benefits accrued through watershed development activities

CLIMATE PROOFING WATERSHED IN KANCHEEPURAM, TAMILNADU

S.NO	ACTIVITIES	UoM	Apr 17 - Mar 18	Since inception
1.	Training	Nos	23	23
2.	Water Absorption trench	cum	800	800
3.	Summer Plough	Ha	144.73	144.73
4.	Intercropping – Ground Nut & Pulses	Nos	70	70
5.	Soil sample	Nos	356	356
6.	Fish Culture	No. of ponds	9	9
7.	Bio-fertilizer	Nos	526	526
8.	Green manure	Nos	119	119
9.	Installation of a weather station	Nos	4	4

This year training and capacity building activities were conducted in 4 watersheds covering various aspects of Climate Proofing project.

As a part of the climate proofing project, capacity building training was conducted for the beneficiaries under four watersheds namely Arasur, Nugumbal, Othivilagam, and Sirukalathur. It was planned to conduct the training in two phases. The first phase covered training on Vermicomposting, Organic preparation, Animal health, and Crop diversification. All the training were conducted at NAF CFRD for the beneficiaries of 4 watersheds (covering 25 participants for each training).

Four watersheds (Arasur, Nugumbal, Sirukalathur, and Othivilagam) with 50% of the progress accomplished opted for Climate change adaptation program in Kancheepuram district under NABARD.

New Watershed development projects in the pipeline:

S.No	Name of the Watershed	District & State	No. of villages covered	Total Area (Ha)	No. of Families to be covered
1	Agaram	Cuddalore, TN	4	1175	2239
2	Ariyagoshti	Cuddalore, TN	4	929.3	2356
3	Kothatai	Cuddalore, TN	4	1479	2853
4	Pichivakkam	Kancheepuram, TN	4	1250	1600
	Total		16	4833.3	9048

AWARENESS CAMPAIGN ON CLIMATE SMART AGRICULTURE

To make people aware of climate-smart agricultural technologies, four awareness campaigns were conducted in the following iNautix project villages.

S.NO	District	Village	Date
1	Kancheepuram	V.K.Agaram	29.11.2017
		Vilampattu	29.11.2017
2	Thiruvallur	Pathirivedu	30.11.2017
		Madharpakkam	30.11.2017
3	Pune	Kolwadi	23.01.2018

'More than 150 people participated in the climate smart agriculture awareness campaign'

In this programme, the Current scenario of climate change, its impacts on agriculture and environment was explained among the gathering by NAF experts. She also illustrated mitigation measures on Agriculture to combat the changing climate. Slogans on Climate Smart Agriculture technologies were explained by experts from NAF. He handed over the flag cards prepared for the campaign to the gatherings. In all the campaigns, men, women, and children participated with enthusiasm and interest. In each program, about 40-50 people participated.



Photo: Training on climate smart agriculture



Photo: Training on micro irrigation



Photo: Training on Bio-product preparation



Photo: Training about SRI technique



Training and
capacity building
to provide green
skills to relevant
stakeholders

Primary purpose of this division is to provide customized training and capacity building sessions as per the needs of the participants.

We believe that the training and capacity building activities before the start of the project and throughout the length of the project is the most important factor amongst those factors which are pivotal to our success in other divisions.

Training and Capacity Building

This division aims to strengthen the human asset of the stakeholders by empowering farmers, farmer organizations, students, NAF team, NGOs, Government officials, Bankers, and other relevant stakeholders etc., with required awareness, knowledge, and skills. The training was conducted at NAF Center for Rural Development (CFRD), a dedicated training center of NAF and various project areas.

Key considerations of the division:

1. Our beneficiaries access to formal education limited. So, we factor in the limitation while designing the training modules.
2. **Livelihoods oriented** training to increase human capabilities.
3. Rural **Livelihoods are diversified**. So, special training on **non- farm activities** also given.
4. Specific difficulties like **gender-related issues** are considered and special focus for women farmers and other women beneficiaries are given.
5. Training for **Farmer's organizations** focuses on achieving financial stability and environmental sustainability. Additional focus is given for marketing skills, business strategy, scale-up strategy, and business plan.
6. **The climate change** related problem threatens the agriculture sector very profoundly. Special training on **climate-smart agriculture, lean farming, sustainable agriculture, and Adaptive management techniques etc.**, is provided to increase the resilience of the farmers to the climate change related impacts.
7. **The mixed methodology** of classroom-based and field training is adopted. **Innovative teaching methods** are adopted to overcome the learning difficulties of the beneficiaries.
8. We promote and facilitate lateral learning (**Farmers-Farmers learning**)

Highlights

S. No	Division	No. of Programme		No. of Participants		Total Beneficiaries
		NAF CFRD	Field	NAF CFRD	Field	
	Training to promote Agri-business					
1	ACABC	2	0	70	0	70
2	FPO Review Meeting	2	0	40	0	40
3	FPO Board of Directors Training	1	0	50	0	50
4	Training on Compliances for FPO's	1	0	59	0	59
	Training to promote Sustainable Agriculture					
5	Sustainable agriculture training supported by Apollo Tyres	1	0	24	0	24
6	Farmers Training - Lean Farming for environmental conservation through Pershing	1	0	31	0	31
7	Climate Proofing Training –Animal Health Management	23	0	622	0	622
8	Awareness Programme - Climate Change Farming & Environment	0	10	0	377	0
9	Workshop on Climate Change adaptation and Mitigation	1	0	62	0	62
10	Skill Training supported by I Nautix	26	0	682	0	682
11	Skill Development Training supported by Oerlikon	1	0	20	0	20
	Training under watershed Development projects					
12	Watershed Review Meeting	2	0	15	0	15
13	Exposure Visit Watershed	9	0	321	0	321
14	District and Village Resource Person's Training	10	0	420	0	420
	Exposure visits					
15	L&T Technology Visit	1	0	11	0	11
16	HCLF –Exposure Visit	1	0	10	0	10
17	Exposure Visit From CSIE IIT Madras	1	0	24	0	24
18	School Visit from Mandhir Vidyashram	1	0	65	0	65
19	Anna University Students visit	2	0	91	0	91
	Other Training					
20	Training through Indian Society of Agribusiness Professionals (ISAP)	1	0	10	0	10
21	Training through TANUVAS-CFDT	2	0	150	0	150
22	Training through Centre for Agriculture and Biosciences International (CABI)	7	0	112	0	112
23	Induction Training	1	0	17	0	17
24	Training through Agricultural Technology Management Agency (ATMA)	5	0	200	0	200
25	PPM Training	6	0	221	0	221
	Total	127	10	4150	377	4150

Table: Highlights of Training programmes

NAF's Center for Rural Development is dedicated to train and capacitate farmers on technology-based agriculture to transform the direction of the Indian agriculture from "production-oriented" to "market-oriented". It is thus achieved by developing an integrated and innovative rural development model that equip farmers with technology which in turn increase the productivity per unit area.

In CFRD training center, 4150 farmers were given training on various aspects of sustainable agriculture through 127 training programs for the FY 2017-18 as against 3774 farmers trained last year. Apart from this, under the corporate volunteerism program, 269 employs from Pershing and 564 employs from iNautix corporate sector has joined hands with NAF to initiate community development.



Training on preparation of organic inputs



Class room training session



Training on solar pump at NAF's CFRD



Lead farmer training other farmers

TRAINING AND CAPACITY BUILDING INITIATIVES IN FARM SECTOR – A CSR project with iNautix Technologies Pvt Ltd.:



18 training modules were designed by NAF (Center for Rural Development)

NAF has joined hands with iNautix India through its CSR project “Training and Capacity Building initiatives in the farm sector” to help farmers to become ever more innovative. Many farmers in the developing world are slow to adopt technological innovations, ranging from using improved varieties to the use of information technology. On a broader perspective, this program on “Training and Capacity Building initiatives in the farm sector” has been designed on four topics.

1. Awareness program to farmers on Climate change and sustainability
2. Skill development
3. Skill Enhancement
4. Climate Smart Agriculture

In total, 1087 farmers benefitted through our 104 training

To cover the broad four topics, 18 training modules are preconceived which would capacitate farmers on all spheres of agriculture that aims in improving the productivity per unit area surpassing all the impacts affecting present-day agriculture. We have conducted 104 trainings to farmers till March 2018 benefitting 710 farmers through classroom training and 377 farmers through creating awareness on Climate Change farming from different geographies and Districts.



Pic: On field Training



Pic: On field training on farm machineries



Training to Women Farmers:

Till date 8530 and 3249 mahilakisans were trained in Kanchipuram Dt., and Thiruvallur Dt., respectively.

MKSP – Mahila Kisan Sashaktikaran Pariyojana is a Government of India program implemented by TNCDW (Govt of Tamilnadu). As a pilot project, 3 districts Viz: Kanchipuram, Thiruvallur, and Villupuram Dist are selected to launch MKSP which aims at improving the livelihood of women engaged in agriculture by imparting intensive training on sustainable agriculture. In both Thiruvallur and Kanchipuram Dt, NAF has been identified as a Technology Transfer partner facilitating capacity building to CRP's and Mahilakisans. In a total of 16800 beneficiaries identified in 3 districts, 8000 beneficiaries come under NAF. The project is an ongoing success in both Thiruvallur and Kanchipuram Dt. Till date 8530 and 3249 Mahila kisans were trained in KanchipuramDt and Thiruvallur Dt., respectively.



Training to Agri-preneurs

This year, 70 prospective agri-preneurs attended the ACABC training programme. Among them 12 agri-preneurs started their own business.

Agri Clinic and Agri-Business Center is a Government of India (Ministry of Agriculture and Farmers Welfare) unique program to tap the expertise of available Agricultural graduates, Agri Diploma Holders, Veterinarians etc to offer professional extension service to farmers, thus enhancing the agricultural development in India. In a total of 82 Nodal Training Institutes (NTI's) in India and 6 in Tamilnadu, NAF is one of the NTI that provides best of all entrepreneurial skill to agri graduates and also enable them the best extension provider to rural agriculture.

NAF has conducted 2 ACABC training program for 70 agripreneurs for this FY 2017-18, in which 12 has started a business successfully after completing the training with their own investment. Success stories are being sent to MANAGE on regular basis and so far 246 success stories were uploaded in MANAGE website and 35 more success stories have been sent and to be uploaded in webs



Photo: Trainees of ACABC programme



Photos: Trainees of ACABC training

7 training programmes were conducted to train CEOs of FPOs and prepared then as plant doctors

NAF – CABI PLANT CLINIC TRAINING PROGRAM:

CABI (Centre for Agriculture and Biosciences International) is an international not-for-profit organization that improves people's lives worldwide by providing information and applying scientific expertise to solve problems in agriculture and the environment. CABI has joined hands with NAF to provide expert service to farmers through its plant wise program. Through 7 training program, they provide training to CEO's of FPO and turn them as plant doctors.



Photo: Training programme regarding plant clinic

Pershing

NAF-PERSHING PROJECT: LEAN FARMING FOR ENVIRONMENTALLY SAFE CROP PRODUCTIVITY IMPROVEMENT

31 farmers from different agro-climatic zones participated in Lean farming training programme.



Figure 3 Classroom training about environmentally safe crops

National Agro Foundation and Pershing India, both join hands for creating awareness on "Lean farming for Environmentally Safe Crop Productivity Improvement" through FLD – Front Line Demonstration which in turn enhance the livelihood of farmers. On this initiative, as a first step, 31 farmers were called for one-day technical training at Center for Rural Development, NAF campus, Illedu on 30:05:2017. We selected farmers from different geographies and from different agro-climatic zones such as Thiruvannamalai,

Villupuram and Thiruvallur District to widely create an impact and understanding about FLD that followed in continuation of this training.

32 students exposed to Natural resource Management practices

ANNA UNIVERSITY STUDENTS VISIT OUR PROJECT SITES:

As a part of the internship, 32 ME students from Anna University visited NAF and learned the various NRM activities carried out in watershed development programs.



Photo: Student visitors seeing project site



Photo: Student visitors seeing project site

TRAINING FOR NABARD's WDF – CLIMATE PROOFING PROJECT:

As a part of the climate proofing project, capacity building training was conducted for the beneficiaries under four watershed Viz: Arasur, Nugumbal, Othivilagam, and Sirukalathur. It was planned to conduct the training in two phases. The following were the training conducted in the first phase at NAF - Center for Rural Development, Illedu.



1. Training on Vermicomposting
2. Training on Organic preparation
3. Training on Soil testing for Organic carbon
4. Training on Animal health
5. Training on Crop diversification
6. Training on Intercropping
7. Training on Companion cropping
8. Training on flower production

All the training were conducted for the beneficiaries of 4 watersheds covering 25 participants for each training. In total, 500 farmers were benefitted through this initial capacity building training program.

500 Farmers from 4 watershed development project participated in Capacity building activities for NABARD Climate Proofing Project



Photo: Classroom training about climate proofing



Photo: Practical training regarding climate proofing



THROUGH TANUVAS-CFDT:

TANUVAS-CFDT (College of Food and Dairy Technology) in association with NAF has conducted an Entrepreneurship development program for farmers involved in milk production. 60 farmers from different locations of Kanchipuram Dt took part in the training.

AGRICULTURAL SKILL DEVELOPMENT TRAINING SUPPORTED BY OERLIKON:



Oerlikon Corporate join hands with NAF to implement FLD projects to create awareness to farmers on sustainable agriculture. As a part of this 2 day, the technical training program was conducted in CFRD in which 20 farmers took part.

Training through Agricultural Technology Management Agency (ATMA):

Under the ATMA scheme, NAF has conducted 4 training program viz: Organic Agriculture, Promotion of Minor Millets, and Package of Practices for Oilseed Crop, Farmer Producer Organisation



Exposure Visit of students from IIT and Manthan Vidhyasharam School to CFRD:

IIT, Madras brought 24 students from different world countries on an exposure visit to learn and understand the status of Indian agriculture and how the FPO in India was functioning successfully. Also, 65 School children from Mandhir Vidhyasharam, Chennai visit CFRD as a part of their school tour on Agro Tourism.



கந்தாரிபாய் மகளிர் சுய உதவிக்குழு (SHG)

பாண்டிபேடு தெரு, மாதிர்பாக்கம் அஞ்சல்

நதாழில் : சீனிப்பு மற்றும் கார வகைகள்
தயாரித்தல்

தீ ஆதாரம் : PLF, கனரா வங்கி, NAF

2008 சூன் 15

பிரதிபதி :

Social
Development
to achieve
People's
participation

Social Development Division

NAF supports small scale social development activities as an Entry Point Activity for other large scale developmental interventions. These social development activities are often confused with the ultimate objective of all interventions, social development. NAF's exit policy for every project is "community ownership". It continuously works towards creating a self-reliant rural community. So, achieving people's motivation and participation throughout the intervention and after the intervention is crucial.

These social development activities are carried out at any phase of project implementation. But, mostly they are implemented before the start of actual project activities. Though only a small amount of money is spent on these activities, the success of these activities determines the success of other projects.

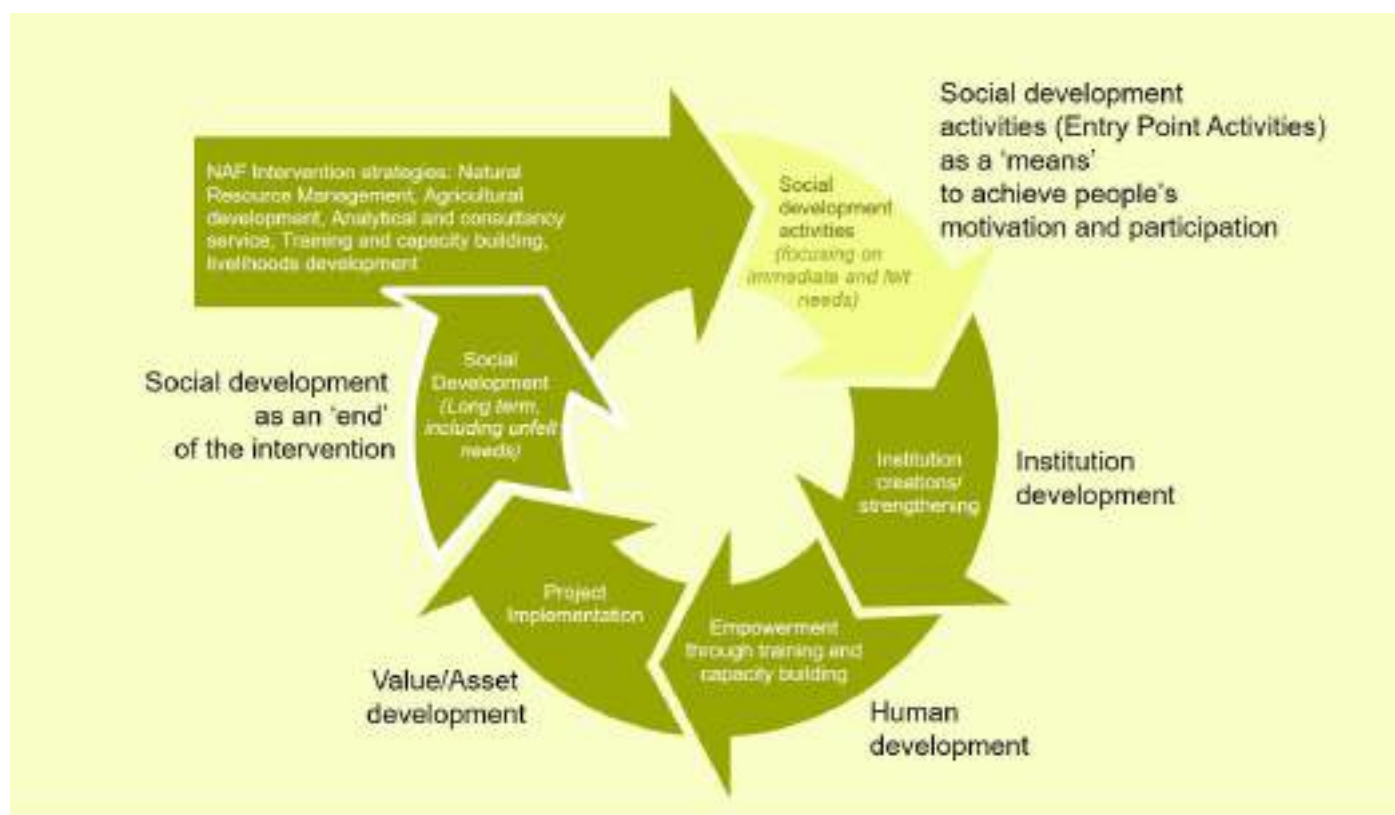


Figure 4 Social development activities in the overall intervention plan

Highlights:

New Account for SHGs opened - 24 SHGs.

NAF-Revolving Fund Beneficiaries -33

Direct Linkage (DL) through SHG: 183 SHGs have been credit linked with banks to the tune of INR10.12 crores.

LIC: Facilitated 806 members to renew the insurance coverage

NAF helped 1 beneficiary to claim Death claim insurance of Rs.30, 000.



Photo: Kanchana of Annai Therasa SHG moved from handloom to power loom.

Key Activities:

1. Formation/Strengthening of community-level organization based on the Self Help Group model.
2. Fostering Financial Inclusion through bank account opening, facilitating farmers to access to insurance products, arranging a scholarship for school children, making bank linkages to SHGs, Microloans through NAF revolving funds, etc.,\
3. Promoting Water Sanitation and Hygiene (WASH) objectives in the project areas.
4. Conducting awareness campaigns about climate change vulnerabilities, the importance of water management,
5. Setting up of women led Common Service Centers and e-Seva centers.
6. Building Sanitation facilities in schools.
7. Setting up of Solar street lights



Photo: Women led e Seva Center



Photo: Women led Common Service Center



Photo: Renovated sanitation complex supported by iNautix



Photo: Newly built sanitation complex in a village school



Cutting edge
Research and
development
center

Laboratory and Analytical Services

Provide reliable data, analytics, and evidence:

The primary aim of this division is to promote Evidence Based practices in agriculture, natural resource management, food sector, etc.,

We provide services to NAF implemented projects and also to other stakeholders to promote the scientific base for the developmental interventions.

NAF pioneered the setting up of modern laboratories for soil testing and food testing laboratories recognizing the need for such technology intervention in the agriculture and rural development sector. NAF is first NGO in India to get accreditation from NABL, Department of Science and Technology, Government of India in the area of agricultural soil testing.

Soil & Water Testing: NAF Soil Testing Lab has been providing comprehensive soil health diagnostic services for agriculture development for the past 17 years. Accurate information regarding the important natural resources soil and water is crucial to improving the agricultural activities. Our works under this division help the farmers, field level functionaries, and other partner organizations to discover ways to better manage soil and water resources for soil fertility and crop productivity enhancement and to reduce the loss due to sub-optimal crop production, weeds, pests, disease, and other threats.

Food Testing: Analysis of food products and advisory for compliance to FSSAI Standards, nutritional analysis for labeling purposes, testing of Food & Water Samples for microbiological quality and swab samples for monitoring Good Food Hygiene, Sanitation and Personal Hygiene Practices etc. are taken up by the Food Testing Lab.

Plant tissue culture laboratories: R& D in the micro propagation of selected medicinal plants, project guidance and training to the students.

Training and academic programmes: NAF not only maintains the laboratories to International standards but also conduct awareness programmes, workshops teaching and technical training programs to extend the usage of these technology services by other stakeholders.



Highlights:



We provide services to NAF implemented projects and also to other stakeholders to promote the scientific base for the developmental interventions.

Soil Testing Lab

Analytical services

- NAF Soil Testing Lab has been providing comprehensive soil health diagnostic services for agriculture development for the past 17 years. Apart from comprehensive soil testing, testing services for water, organic fertilizer/ compost quality, and plant tissue analysis is extended by the lab.
- NAF Soil Testing Lab is accredited as per ISO 17025: 2005 standard by NABL, DST, GoI since 2014. The scope of accreditation includes soil testing, water testing, Organic Fertilizer & Bio-fertilizers testing.
- From April 2017 to March 2018, 1434 Soil samples, 78 water samples and 252 other samples (compost, leaf, soil for texture etc.) have been tested. Apart from the samples from Tamil Nadu, soil samples from other states - Maharashtra, Uttar Pradesh, Uttarakhand, Andhra Pradesh, Telangana, Madhya Pradesh, Karnataka, and Kerala were tested during this period.
 - Apart from samples from India, a soil sample from another country – Nigeria was tested during this period.
 - Keeping in view of the requirement of quality services for microbiological testing in soil mainly for organic farming, **microbiological testing of soil** was initiated during the year. Upon successful completion of analytical trials for different parameters, microbiological soil testing service would be opened up to the customers.

Food Testing Lab

National Agro Foundation, Food Testing Laboratory was conceptualized and started to provide analytical services to the small and medium scale food industries; help in providing quality to the consumers and raising the general standards of quality particularly in the small-scale sector.

Analytical services

Accredited with ISO/IEC 17025:2005 for the Chemical Scope, the food testing lab has been carrying out Analysis of Food products for Compliance to FSSAI Standards & Nutritional Analysis for Labeling Purposes. The Microbiological laboratory is testing Food, Water, and Soil & Compost Samples for microbiological quality. Swab studies are conducted for monitoring Good Food Hygiene, Sanitation and Personal Hygiene Practices amongst food handlers.

- From April 2017 to March 2018, a total of 204 food samples was analyzed.
- 76 samples under the Microbiological scope were tested.
- 15 students from reputed educational institutions like Anna University, Jeppiaar University, Sathyabama University, and VIT carried out their end semester projects at NAF Food Testing Lab under the guidance of experts from the Food Testing Lab.



Academic services

Anna University:

NAF Food Testing Lab is Adjunct Laboratory for Anna University's B.Tech and M.Tech Food Technology Programs since 2007 and B.E Agri& Irrigation Engineering Programs since 2014.

- ✓ Lab session for B.Tech Food Technology (45 students) and B.E. Agri Irrigation (50 students) have been conducted in July and December 2017 respectively
- ✓ 2 M.Tech Food Technology students of Anna University are doing their research project under the guidance of experts of Food Testing Lab.

150 Students from government schools participated in Hygiene awareness programme.



Pic: Students of Anna University at NAF lab



Students of Anna University at NAF lab

IGNOU:

NAF Food Testing Lab is a registered program study center for IGNOU's PG Diploma in Food Safety and Quality Management since 2013.



- ✓ Chemical and Microbiological Lab counseling sessions were conducted for 26 students of IGNOU PGDFSQM batch 2017.

Hands-on Training:

- 7 Undergraduate students who are aspiring to join the food industry have undergone one-week hands-on training in Chemical Analysis of Foods for Nutritional Facts.
- 20 students attended a 5-day hands-on training in food microbiology under the Laboratory Cooperation Program between NAF and Bhaktavatsalam Memorial College during December 2017

Feedback received from participants (Compiled):

"Very well prepared workshop"

"The workshop provided a large inspiration"

"Very Practical, Very well done"

"We enjoyed all the parts of the workshop and we find all the aspects extremely helpful for in-service teachers training"

"The learning from the workshop will make our future work easier"

'150 students from nine schools participated in the Apollo tyres foundation supported 'Hygiene and food Safety' awareness programme'

Awareness Training:



National Agro Foundation (NAF) as a technical partner to Apollo Tyres Foundation, in collaboration with Help Foundation, conducted an awareness drive on personal hygiene for Govt. school students on 20th July 2017 in three schools in Mathur and Eraiyur villages of Sriperumbudur Block of Kancheepuram District, Tamil Nadu.

The program was supported by Apollo Tyres Foundation as part of its WASH initiatives in rural areas. NAF explained students on the importance of personal hygiene and hand washing practices. Hand swab samples were collected and further developed to understand the level of cleanliness among the students. The students were delighted to see their own hand swabs and their level of cleanliness. After seeing the exhibits students realized the importance of hygiene & proper hand washing. Totally, 150 students participated in the program.



Photo: Workshop on food safety



Photo: Workshop on food safety

'779 students from nine schools participated in the KLA Tencor supported 'Hygiene and food Safety' awareness programme'

KLA Tencor CSR project:

During 2017-18, KLA Tencor Software India Private Limited joined hands with National Agro Foundation (NAF) for a collaborative initiative towards creating a healthier future for the school children. Accordingly, NAF had planned a series of **Awareness programs on Health, Hygiene and Food Hygiene and Safety for the school students** under the CSR support of KLA Tencor. NAF reached out to students belonging to the age group of 11 – 16 years from Government, Government aided and Private schools in Chennai. The aim was to motivate the younger generation towards developing good hygiene practices and healthy eating habits and thereby becoming a smart consumer.



The technical sessions focused on the following:

- Importance of food safety and the practices to be followed to ensure the consumption of safe food.
- The importance of reading a food label before buying any packed food
- Health and Nutrition - Choosing the right foods for a healthier future by adopting the principles of FAO – My plate concept.

The students were also engaged in do-it and learn – it experiments on detecting food adulterants. Experiments on detecting adulterants in common foods like tea, honey, milk, dhal etc. were demonstrated which could be tried by the students in their home.

To instill the habit of regular hand washing and signify the importance of personal hygiene Hand swabs from students were collected the previous day to the event from the respective schools. These were developed in the laboratory to check their personal hygiene levels and the same was explained to the students in a scientific manner.

During 2017-2018, nine schools covering 779 students have benefited in this program. The schools covered under the program include Ellen Sharma Memorial Matriculation Higher secondary school Sholinganallur, Besant Arundale Senior Secondary School Thiruvannamipur, Hussain Memorial Matriculation Higher Secondary School Ambattur, Geetha Matriculation Higher Secondary School Saidapet (2 batches) and Kumararani Meena Muthiah Matriculation Higher Secondary School Adyar. The program was also conducted in four Corporation schools in Adyar, Saidapet, Tharamani, and Thiruvannamipur to benefit the underprivileged children.

Hand-outs on hand washing, tips on choosing the right street food vendor and inputs on how to read a food label have distributed the students. Posters on these topics and reducing the use of plastics were handed over to the school.

The students felt that the program was very useful and informative as they gained more knowledge on the importance behind food safety, health and hygiene.



Pic: Workshop on food safety



Workshop on food safety

Collaborations & Empanelments

MoU with FARMSS

NAF has signed a MoU with **FARMSS**, a social start-up supported by Digital Impact Square, an initiative by TCS Foundation, during April 2017. They are working towards developing an 'on-field' / 'near-field' soil testing kit that would be easy to use, accurate, cost-effective and easy to scale. NAF, as a technical partner; is involved in evaluating the Detection Kit results and its applicability and suitability as an alternative method for use at field level.



MoU with IIT Madras:

National Agro Foundation and IIT Madras have joined hands and signed a Memorandum of Understanding on February 7th, 2018, to develop a sensor for assessing the quality of milk. IIT Madras has developed the sensor to be used and NAF will be providing all the technical support to validate the sensor performance. The results derived from the sensor will be validated against the conventional test methods for specified parameters and the applicability and suitability of the same at field conditions will be studied.



NAF a FoSTaC empanelled Training Partner

National Agro Foundation has been empanelled as Training Partner for Food Safety Training and Certification (FoSTaC) by FSSAI. FOSTAC is a new initiative of FSSAI to ensure food safety and hygiene in all the food businesses. FSSAI recommends that all licensed food businesses must have at least one trained and certified Food Safety Supervisor for every 25 food handlers in each premise under FoSTaC. Food Safety Supervisor training would be conducted at 3 levels – basic, advanced and special. Target participants can be food handlers, food safety supervisors, students, professionals, and other persons intending to enter the food industry.

ADAPTIVE RESEARCH

COLLABORATIVE RESEARCH PROJECT WITH CLRI (Central Leather Research Institute)



NAF has entered an agreement with CLRI to conduct "Studies on the characterization of fur compost and its efficacy on rice crops" in three blocks viz: Chithamur, Acharapakkam, and Marakanam. Initial RBD (Randomized Block Design) trials in 3 blocks were completed and all the results were submitted to CLRI. Now, the confirmatory trial was going on in three blocks.



Experimental farm developed by NAF for the research purpose

CORPORATE VOLUNTEERISM PROGRAM

NAF is implementing many community development programs through Corporate Volunteerism. Corporate volunteering is the encouragement and facilitation of volunteers in the community through the organization which involves the employee donating their time and expertise either during official work hours or on their own time with some facet of company support. Volunteer programs organized by NAF are highly recognizable and valued programs that can help the corporate company work with the community more effectively that deepen the engagement among employees and contribute to the company's visibility and reputation in key markets.



Employee volunteers participated in the NRM works

*'In 11 programmes,
564 employee
volunteers of I Nautix
participated.'*

INAUTIX CORPORATE VOLUNTEERISM:



iNAUTIX Technologies India Private Limited, a group company of Bank of New York Mellon - a leading financial services provider has joined with NAF for Corporate Volunteerism in a total of 11 programs engaging 564 of its employees. They engage their valuable time with us by providing services like tree planting, seed ball preparation, seedling preparation, strengthening of canals, digging of farm ponds etc.

Pershing®

PERSHING INDIA CSR VOLUNTEERISM PROGRAM:

*'In 8 programmes,
269 employee
volunteers of
Pershing India
participated'*

Pershing LLC is a subsidiary of The Bank of New York Mellon Corporation and is committed to delivering dependable operational support, robust trading services, flexible technology, an expansive array of investment solutions etc. They also join hands with NAF under Corporate Volunteerism. In a total of 8 programs, 269 of its employees along with NAF initiated many community volunteer programs such as the distribution of library books to remote village schools, planting of trees along farm ponds, lakes, farm bunds etc.

AWARENESS CAMPAIGN ON GREEN MANURE BY INAUTIX VOLUNTEERS:



*'Volunteers provided
green manure for
more than 35
Farmers'*

As a part of the Climate Smart agriculture CSR project, Farmers were given awareness on the importance of growing green manures that enrich the soil fertility, texture, and structure of the soil. Nearly 35 Farmers were called to attend the campaign. They were issued with every 10 kgs of green manure seeds and pamphlets on green manures sponsored by iNautix volunteers.



Volunteers planting trees



Volunteers preparing seed balls

Awards & Recognition

The Government of Andhra Pradesh, in partnership with the Bill & Melinda Gates Foundation, Dalberg Advisors and Confederation of Indian Industry (CII) had invited applications for a Pitch Competition to identify technology-based solutions that solve agricultural challenges faced by small and marginal farmers in Andhra Pradesh. **NAF was selected as one of the 10 finalists (and the only NGO) out of the 259 applications received from 61 countries** at the tightly contested Ap Agtech Pitch Competition. It is indeed a proud moment for the entire NAF family when Dr.M.R Ramasubramaniyan, Executive Director, NAF received the certificate from Mr. Bill Gates in the august presence of Mr. N. Chandra Babu Naidu.



NAF came in top 10 innovations in the Pitch Competition held in the Global APAgTech Summit in Vishakapatnam

National Agro Foundation has been awarded **First Prize by NABARD for the Best Project Facilitating Agency in Watershed Development Program in Tamilnadu** for Nugumbal Watershed. The award was received by NAF team headed by Dr. M.R.Ramasubramanian, Executive Director from **Thiru O Pannerselvam, Hon'ble Deputy Chief Minister**, Tamilnadu on 27th March 2018 during the State Credit Seminar organized by NABARD.



NAF received NABARD's Best Project Facilitating Agency in Watershed Development Program, Tamil Nadu

Other events

WORKSHOP ON CLIMATE SMART AGRICULTURE - NOVEMBER 7, 2017 AT NAF CENTRE FOR RURAL DEVELOPMENT



On the occasion of 17th Memorial Day of Shri.C.Subramaniam, Founder of National Agro Foundation (NAF); NAF organized a workshop on “Climate Smart Agriculture and Natural Resource Management: A Mitigation Strategy for Climate Change impact on FPOs”. The aim of the workshop was to disseminate various technologies and best practices related to Climate Smart Agriculture and Natural Resources Management amongst the FPOs for their capacity development for climate resilience.

Lectures by experts were organized as a part of the event. More than 150 farmers from five districts of Tamil Nadu enthusiastically participated in the program amidst heavy downpour on the day.

WORLD FOOD DAY CELEBRATION 2017

World Food Day is celebrated world wide to commemorate the founding of Food and Agriculture Organisation (FAO) of the United Nations.



National Agro Foundation organized a one day event on the theme “Change the future of migration, Invest in food security and rural development” on 27th October 2017 in association with College of Food and Dairy Technology (CFDT)-TANUVAS. The event was purported to play a significant role in creating awareness on the opportunities and benefits of food processing, especially to the rural folks. It attracted people of all economic strata from rural areas who contemplate migration to urban areas in search of livelihood prospects. Techniques in preparation novel and nutritious food products were disseminated and people were encouraged to take up the food business as a potential venture.

As a part of the event, several competitions, lectures, and discussions on food and dairy processing were arranged to spread the message on the importance of food processing.

Around 200 participants from members from the rural farming community, students, food processing industries and entrepreneurs participated in the event held at CFDT Campus at Koduvalli, Alapati.

Success stories

Water under scorching sun

Nugumbal Watershed development project was implemented from 2009 and it covers 1476.37Ha area. Before the implementation of the project the targeted area was entirely dry and dominated by rain fed agriculture. The ground water level was also very low. Farmers cultivated once or twice a year and the yield was also suboptimal. In order to produce more yield farmers were also using large quantity of fertilizers. Both ecological conditions and agricultural practices put stress on each other and ultimately affected the livelihoods of the farmers.

Ironically, the rainfall is abundant in the region. But lack of water harvesting structures was actual problem faced by the community.

National Agro Foundation intervened the project area through watershed management approach. As a part of the project, more than 400 Water Absorption Trenches, more than 60 Continuous Contour Trenches, 2 check dams, 20 Rock Fill Dams were constructed.

As a result, now the open wells in the project area have water even in summer.

“The water level had increased around 2 to 4.5 m in the open wells. Every month we are measuring the water level in wells selected as observatory wells. We can visibly see the changes. While indiscriminate usage of groundwater through tube wells became a menace in our villages, many farmers now stopped using tube wells and started using water available in the open wells”

Villagers of Nugumbal



One of the observation well in the project area

Transformation of the barren land

60 acres of land in the upper reaches of Nugumbal watershed was highly eroded because of limited plantations and absence of physical structures to control erosion. 300 WATs were dug on the ridge portion of the watershed. Loose Boulder Structures (LBS) were positioned to avoid the soil erosion in large quantity. Excavation of WAT in higher numbers enabled the storage of abundant water in the trenches. The run-off water overflowing from the WATs will be drained through the channel. The check dams were constructed across the channel to minimize the velocity of water flow and conserve the rainwater.

The treatment of the nearby areas through watershed approach increased the soil moisture, water level on surface and ground, reduced the soil erosion.

Now, Around 60 acres of uncultivable land was reformed into cultivable. Vegetables, fruits and flowers were cultivated in those newly transformed land.

“Last season, we collectively cultivated watermelon in the newly transformed land and earned around INR 5000 per acre.”

-Farmer benefitted through the Nugumbal Watershed Development project.



Watermelon grown on previously uncultivable land

One stop market place for farmers

Sholavaram is one of the major vegetable producing belts in and around Chennai. But farmers there faced constraints imposed by small land holdings, middle men and other market related problems. Most often, they did not get the right prices for their produce. NAF with the support of NABARD mobilized farmers through Farmer Interest Groups to form a Farmers' Producer Company. The result is more than 1000 farmers came together to form a company. Now FPC members are able to leverage collective strength and bargaining power to access financial and non-financial inputs, services, reduce transaction costs, tap high value markets and distribute the benefits from the company on more equitable terms, etc.,

The FPC sells leafy vegetables, vegetables, and cereals to the whole sellers in Chennai. They are supplying vegetables to Sunny bee fruits and vegetable retail chain, one of the famous retail chains in Chennai. The FPC also sells almost all the farm inputs to the farmers.

The most beneficial aspect of the FPC is that the produce is getting picked up directly from the FPC office which is situated in their production cluster and hence, they neither have to incur any logistic costs.

"We aggregate the vegetables demand from the whole sellers and supply from the farmers. Farmers who sell through FPC get 20 to 30% more return for their produce. Our long term vision is to make the FPC one point sales and procurement center for the farmers in the region.

Director, Sholavaram FPC.



Sholavaram FPO members selling the produce to Sunny Bee

Yield increase by adopting new techniques

Perumal has progressed through hard work. Twenty years back, he got half an acre from his father as an inherited property. Now he owns 4 acre of land, one tractor, a house in his agricultural land. Everything he achieved through agriculture. Apart from agriculture he does electrical work, carpentry works, etc., in the village.

He got training from National Agro Foundation in organic farming, Natueco farming, lean farming, SRI method of paddy cultivation, new varieties of black gram, groundnut, etc., through developing Frontline Demonstration fields (FLDs).

Now he is able to produce on an average 30% more yield in his four acre of land.

"I had developed Frontline Demonstration fields with the help of National Agro Foundation in 5 different times. I grew paddy, groundnut, black gram, and vegetables. Now, I am familiar with the new methods of cropping, heat tolerant varieties, plant diseases, natural remedies, organic inputs, etc., I help neighboring farmers and my relatives with the knowledge whatever I gained through my experience with FLD farms."
Perumal.



Perumal,, Volunteer for setting up of FLD

On-farm water management

R Loganathan owns around two acres of land. His land was not very much favorable for agriculture due to scarce water availability. NAF helped him in making field bunds and preparing the land through modern agricultural methods. The productivity of the land increased. Further, after the construction of various water harvesting structures near his field, the water level in the well increased significantly.

Now, Loganathan is able to fully cultivate the available land throughout the year. He also volunteered to develop Frontline Demonstration plot on his field. Through training programme he gained knowledge about the new varieties of millets, groundnut, paddy, etc., and techniques of lean farming.

He also volunteered to be a farmer member of Climate proofing project and testing the climate smart agriculture practices on his field.

“NAF helped in preparing my land through new methods of ploughing and making field bunds in my 2 acre land. Field bunds retains large quantity of water during rain and I can walk on the bunds to manage every corners of the land”

R Loganathan



R Loganathan,, Volunteer for setting up of FLD

The demonstration effect

Jayaseelan had created FLD farms for paddy and groundnut in his field. Now, he had volunteered to grow Finger millet under Climate Smart Agriculture project. His farm lies on the road and attracts many visitors to his farm to see the results of the FLDs.

He used organic inputs provided by National Agro Foundation in the FLDs. More than 10 nearby farmers had visited his field each time he creates FLD to know the impact of new inputs and methods of farming.

Some farmers used the same inputs for other vegetable crops. Three farmers applied organic inputs on Brinjal and found improvements in terms of quantity of production of quality of vegetables.

“As my agricultural land is on road, many farmers visit my land to know the impact of inputs and techniques used in my FLD farms. I also learn many new techniques from them. National Agro Foundation’s support to establish FLDs helped me in doing the agriculture in best way.”

Jayaseelan.



Jeyaseelan,, Volunteer for setting up of FLD

Fortune in sachets

10 years back, Dhanalakshmi got INR 13,000 loan from the Karumariamman SHG. She spent half of the money on household expenses. For the remaining money she purchased groceries, eatables, etc., and spread them on a cot for sales.

Over a period of time, she purchased large quantities of items and packed them in small sachets. Through this model, she made the profit margin of 100 to 150%. Her lowest weighed product sachet is food tempering mixture (mixture of mustard and variety of lentils). Her mustard tempering mixture sachet weighed only 2 grams. Later, she started preparing cool drinks in her home and sold them for INR 5. Her major customer share is from the school opposite to her shop. She sold eatables, pen ink, gum, pencil, paper, outline maps, etc.,

Now, her product line includes, stationary items, use and throw cups, Grocery items, dairy products, vegetables, spices, fruits, bread, etc.,

“Initially, I started the petty shop to avail the loan benefit but now I run my entire family from the money which I earn from the shop. I made my daughter to study teacher training course and looking after my ailing husband.”

-Dhanalakshmi.



Dhanalakshmi showing dry fruits in small sachet

Mechanized Tailoring boutique shop

Ellammal shifted her boutique shop to Velore village from Nugumbal village three years back. To her pleasant surprise, she got bulk orders during school reopening season. But her challenge was to deliver the stitched dresses in time. She pulled in her husband's help to finish the orders in before deadline. This experience made her to realize the difficulties to work with the conventional human powered machine.

She decided to mechanize her tailoring shop with an electric powered tailoring machine and overlock machine. Capital requirement was a huge constrain to her. Fortunately, she was a member of Chembaruthi SHG (Self Help Group) which was chosen by National Agro Foundation and NABARD to support under the livelihoods component of Othivilagam watershed project.

She had applied for a micro loan to the SHG and received the loan amount of INR 40,000. Now, she won the confidence of new customers through her trademark quality of work and punctuality in the delivery.

"I and my husband suffered from foot and knee pain by using pedal powered manual sewing machine. Now, our boutique's productivity has doubled without undergoing any pain. The quality of stitched dresses also increased as we use overlock machine"

-Ellammal



Ellammal and her husband

Malliga's localized milk business

Initially, Malliga had two cows. While most of the dairy farmers sell their milk produce to local co-operative society, Malliga sell to local customers and a private ice cream parlour to increase her income. Local co-operative society buy the milk for INR 25/L but Malliga sells it for INR 30/L. Biggest challenge in selling the milk directly to end customers is to maintain the supply of milk consistently. She need to take calculated decision based on the cow health, total number of cows needed, milking period of cows, etc.,

She decided to buy one more cow by raising a loan to achieve the year round milk yield. She had applied for loan at Sengani Amman SHG Supported by NAF. A loan of INR 32,000 was given from NABARD's revolving fund under watershed development programme.

Now, she produces 24 liters of milk every day from three cows and sells them for INR 720. She uses the income for her children education. One child is studying in 4th standard and another child is studying in 3rd standard. She also uses the cow dung to produce manure for her small agricultural field.

"I got the loan of INR 32,000 and bought a cow for INR 30,000. I spend daily INR 100-120. But it gives me INR 250 daily during the milking season. Now I have three milking cows."
-Malliga



Cycle servicing to cycle lending business

Lakshmi's husband worked as a cycle mechanic in a nearby town and out of his own interest learnt basics about motor bikes. He then started a cycle repair shop in his village, sensing the high local demand. Lakshmi sits in the shop for most of the time and realized that there is a very high demand among the school children for cycle rental business.

She applied for a loan of INR 40,000 and INR 32,000 in different times from ManoRanjitham SHG where she is a member for more than 10 years. The loan is given from the Livelihoods revolving fund of NABARD's watershed development project. She purchased five new bicycles, tyre, tube, spare parts, tool kits, etc., from the loan amount.

"I charged INR 20 for one bicycle for one day. Every day I earn around INR 100 from bicycle rental services. Later we also started motorized air pressure filling services for cycles and bikes. Ours is the only motorized air filling facility available in the village and I earn around INR 50 from providing air filling services to the cycles and bikes."

-Lakshmi



Lakshmi with newly purchased air filling motor

Small petty shop to grocery shop

Radhamani's husband is working as a bus conductor in a private bus service. She is having two children. One child is studying in 9th standard and another child is studying in 3rd standard. Both the children are studying in a good private school.

Considering the financial conditions of the family, Radhamani wanted to contribute to the family income through doing some business. Initially, she started a small peti shop. Later, she realized that the income which she get from a small shop was very low and thought of expanding the store. She had applied for the loan in Palayathamman SHG and received a loan of INR 32,000 and INR 15,000 in two different times. Mostly, she used the loan amount to meet her working capital requirement.

She started selling vegetables, sanitation products, stationary items, milk products, etc., she had cut down the wastage by managing the stocks better and cut reduced the cost through bulk procurement and procurement from a whole seller. In long run she planned to achieve cost leadership in the area and can transfer the cost benefit to the end customer through reduced price.

"Every day she makes a revenue of INR 700 to INR 1000. The income which I generate through the store is useful for my family to meet our daily expenses and children educational expenses."

Radhamani.



Radhamani in her shop

Milking fortune

Muniyamma is associated with Sakthi SHG for the past 10 years. Her husband took 2 acres of agricultural land for lease and doing agriculture. Fortunately, Muniyamma have sufficient homestead land to rear up to 10 cows.

When Shakti SHG was supported by National Agro Foundation, she applied loan for two time and got credit worth INR 45,000. She bought two cows by putting INR 30000 from her own savings. She is having four cows now.

She sells more than 30 litters of milk every day and earns around INR 800 every day. She spends around INR 400 for four cows every day to maintain them healthy.

Muniyamma's earnings from selling milk was helpful in meeting her daughter's marriage expenses.

"Revenue from the cows is the major source of our family income. Apart from meeting our household expenditure, we were able to save more than INR 200 daily. We got the loan for lower interest rate. Otherwise we would have ended up paying more to service the loan."

-Muniyamma



Muniyamma with her cow

Arrival of 'Abhi' changed the life of 'Anjali'

Anjali is working in an anganwadi center as an assistant. 15 years back, her daughter brought one goat kid from their relative's home and named it 'abhi' after the famous characters of a Tamil television serial, Kolangal. From then goats became a regular part of their family.

Goats are the only assets of Anjali's family. At one point of time many of her goats died due to a disease. She was looking for a small loan to buy few more goats. She got a loan of INR 25000 from the SHG supported by National Agro Foundation. From the loan money she purchased 7 goats.

Since 2017, she had sold 15 goats for INR 60000 and owns 10 goats. She also lend her goats for lease.

"Every six month, on an average I earn INR 30,000 by selling goats. I use the money for my household consumption, children education and meeting unexpected expenditures. I am paying the tuition fee for my daughter's teacher training course by selling the goats. My daughter, when she was young brought one goat from our relatives home, now goats are the one helping her education"

-Anjali



Anjali's goats

Happy end to 10 years wait

Mahalakshmi learnt tailoring works 10 year back and planned to join a textile export company as tailor. Many of her friend joined such jobs in Chennai. As Mahalakshmi got married, she could not pursue her dreams. Apart from seeing tailoring as an income generating source, she was very passionate about tailoring works.

Since 2004, she is a member of of Abdul Kalam SHG. National Agro Foundation under the livelihoods component supported Abdul Kalam SHG by providing micro credit. Mahalakshmi got a loan of INR 32,000.

Initially, she started stitching works for neighbors. Due to her passion and tailoring skills, she is able to attract customers from neighboring villages. Even now, she maintains a lean business model. She does the work from the varanda of her home. She completely believe in her skills to give perfect fitting to her customers. Recently, she retrofitted her old sewing machine with electric powered system to avoid work related body pain.

On an average every day I earn INR 200 which I use to cover all my household expenses. I use my husband's earning for our children's education. My son is studying 9th Standard and daughter is studying 7th standard. I spend yearly INR 40,000 for their education. This tailoring work helps me to take care of the household expenses on day to day basis and helps me to avoid taking loan from local money lenders.

Mahalakshmi



Mahalakshmi in her work

Fabric of Change

Vaani, 25 years back worked as a tailor in a garment manufacturing company. In the same company she was promoted up to Manager. The company shifted its production center to a different place. That is when, Vaani started her own garment manufacturing company in a small room. Initially, she could not manage the financial requirements of the company all alone. She joined a self-help group, Magilam poo.

National Agro Foundation supported the Self-Help group in promoting savings and bank linkages. NAF facilitated a loan amount of 3, 5, 7 and 10 lakhs in different stages. Vaani is one of the major beneficiary of the self-help group. She also provided employment to three members of the Self-help group.

Now Vaani is able to better manage the advance payments to suppliers, salary, buying machines and other recurrent costs.

“Now I am able to focus on the business activities and quality of garments. Because I completely depend on the self -help group for the credit requirements of the company. We have a group savings of more than one lakh. The interest we pay for the loans from SHG stays within the SHG and ultimately goes to the savings of the group. National Agro Foundation helps the SHG in maintaining the financial discipline and bank linkages.

-Vaani



Vaani's shop floor

Organic rooftop garden

Thulasi is an active member of women farmers batch got trained under Mahila Kisan Sashaktikaran Pariyojan, a sub component of the National Livelihood Rural Mission (NRLM). NAF is the implementation partner of the programme in the region.

Though the training programme, women farmers were taught about preparation of Panchakavyam, vermicomposting, roof top gardening, vegetable cultivation, mushroom cultivation, seed preservation, SRI technique for paddy cultivation.

Usually, Thulasi's husband took major decisions in the agriculture. But after attending the training programme, Thulasi introduces new methods of farming. She had set up a vermicomposting unit in the backyard, manufactured panchakavyam and other organic inputs. She had cut down the cost and increased the return in her jasmine farm.

She had also set up roof top garden and now producing more than 10 varieties of green leafy vegetables and 5 varieties of vegetables. She became a lead farmer in the village and imparting training to other women.

Initially, I was reluctant in joining the training programme due to my busy day to day activities. But the 15 day training programme transformed the way I look about farming. Now I am almost self -sufficient in agriculture. I also produce more than 50% of my family's vegetable requirements from the roof top garden. My aim is to form a women's group to produce and sell organic agricultural inputs for the farmers"

Thulasi, Trainee of MKSP programme



Thulasi's at her backyard garden

Testimonies

The Soil testing facilities and the depth of work in the NABL accredited food technology lab are great. All the best and thx for the opportunity. M/S 3/26/21

M.S. Uma Maheswaram
Chief Mentor & Investments
Officer

The visit to this lab, was more like a visit to a temple.

This is a noble cause that can have an impact on human life like no other.

Glad to be associated with this journey.

M/S 5/4

V. M. MURALISHARAN CHIEF OPERATING OFFICER, BATHUR GREEN TEK & CHAIRMAN, ETHIRAD COLLEGE FOR WOMEN	
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Impressive work on testing labs.
Good work. Long way to go.

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Deeply impressive
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It was indeed a memorable moment and great privilege to visit & dedicate the Climate Smart Agriculture on the ~~100th~~ Commemorative Day of the Great Soul, Bhawan Prasad, C.S.

I am indeed proud of technical and social mobilization skills of NAF.

I would particularly congratulate Dr-Suresh Chandra, Dr Balasubramanian and Dr Muneer for the ~~benefit~~ service to humanity!

CS will steadily live and serve through NAF!

[Signature]

S. Pragoor Thi Thirul
CGM NABARD

Good Infrastructure for Agriculture & Animal Skill & Capacity Development. Need to have more such facility across India

PONMATHANNA C.B
HEAD - CSR
L&T TECHNOLOGY
SERVICES, PLE,
CHENNAI - 60

Need based program for the future development of India with a vision to uplift rural folks. A commendable job. The atmosphere reminds of Gandhigram (near Dindigul).

Prof. G. ADISKARA RAJAN
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MADURAI - 1
HAYING FARM - 23 km from Madurai

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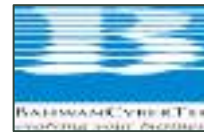
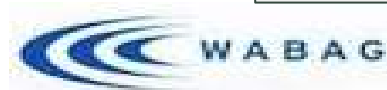
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