



# INSPIRING STORIES OF PROGRESSIVE WOMEN FARMERS



Government of India  
Ministry of Agriculture & Farmers Welfare  
Department of Agriculture, Cooperation & Farmers Welfare





# Inspiring Stories of Progressive Women Farmers

**2020-21**



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**Ministry of Agriculture & Farmers Welfare**  
**Department of Agriculture, Cooperation & Farmers Welfare**



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सत्यमेव जयते

कृषि एवं किसान कल्याण,  
ग्रामीण विकास और पंचायती राज मंत्री

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**MESSAGE**

I am extremely heartened that the Department of Agriculture, Cooperation and Farmers Welfare is bringing out a publication on 'Inspiring Stories of Progressive Women Farmers' including agri-entrepreneurus and documenting the best practices adopted by the successful women farmers in agriculture and allied sectors across the country .

India being an agrarian economy, the contribution of farmers including women farmers in its development is immense. A farmer in India is characterized by persistence and hard work. Prosperity of the farmers is, hence, a key to its developmental journey.

In view of this, working towards enhancement of the income of farmers is one of the key goals of Ministry of Agriculture & Farmers Welfare and presently the vision is to double the income of farmers by the year 2022. The Government is making concerted efforts to create a conducive eco-system to support their hard work so that the farmers get optimum returns on a sustainable basis. Over the years, with the innovative and advanced technologies enabling the agriculture, farmers have been closely mentored for scientific farming and many of them have even started adopting them.

The agriculture sector has also taken a quantum leap in recent times. It's a result of the combined efforts of the sons and daughters of soil who skillfully blend modern scientific techniques with their toil on soil and the Government machinery who does right hand-holding by giving them knowledge support. This publication encapsulates stories of 51 progressive women farmers who have succeeded by adopting modern agriculture, animal husbandry, organic farming and so on. The path-breaking interventions covered by the true life stories in this book are not limited merely to crops, but cover the entire gamut including allied sectors and enterprises.

I take this opportunity to heartily congratulate all the women farmers whose stories have been narrated here. Their pioneering efforts would go a long way in driving their sistren towards sustainable growth. I am sure, this publication would also enthuse the women and rural youth to consider agriculture as an interesting occupation and a rewarding business.

(Narender Singh Tomar)



**Sanjay Agarwal**  
Secretary



**FOREWORD**

भारत सरकार  
कृषि एवं किसान कल्याण मंत्रालय  
कृषि, सहकारिता एवं किसान कल्याण विभाग  
Government of India  
Ministry of Agriculture & Farmers Welfare  
Department of Agriculture, Cooperation  
& Farmers Welfare

Agriculture plays a vital role in India's economy and rural women form the most productive work force in the economy of a majority of the nations, including India. Agriculture including various sub-sectors employs 80 per cent of all economically active women; they comprise 33 per cent of the agricultural labour force and 48 per cent of self-employed farmers. About 18 per cent of the farm families in India, according to National Sample Survey Organization (NSSO) Reports, are headed by women.

Agriculture is the largest enterprise in the country and an enterprise can survive only if it can grow consistently. And, growth is incumbent upon savings & investment, both of which are a function of positive net returns from the enterprise. The net returns determine the level of income of an entrepreneur, farmer including women farmers in this case and the impressive agricultural growth and gains since 1947 stand as a tribute to the farmers' resilience to multiple challenges and to their grit & determination to serve and secure the nation's demand for food and raw material for its agro-industries.

Ministry of Agriculture & Farmers Welfare is implementing various schemes intended for development in the agriculture and allied activities. Under the schemes, farmers are guided and inspired to adopt scientific and modern agriculture and related activities. Farmers are also getting updated with information about research and recommendations of experts and scientists of diverse fields from State Agricultural Universities, Officers of Agriculture/Horticulture/Animal Husbandry Department and ATMA with constant interaction and get information for their problems and provide solutions. In this way, now, a suitable farming environment is created for farmers.

A book entitled "**Inspiring Stories of Progressive Women Farmers**" including agri-entrepreneurs is being published by the Department of Agriculture Cooperation & Farmers Welfare to voice the attainments of outstanding and inspirational women farmers. The successful women farmers covered in this book have been benefitted by using modern technology and scientific approach in farming. Moreover, by virtue of their knack and resourcefulness, they have succeeded in agriculture related activities and have uplifted themselves economically. Now, with this book narrating the successes in detail, I am sure that other farmers will get inspiration and work towards doubling their income. I urge all the stakeholders to use the book for benefitting the farming community.

Further, these success stories would go a long way to encourage women across India to follow the recommended agricultural practices and enhance their income. These success stories are truly the stories of innovators in farming who are making a difference in the industry, starting with their own operations. I am sure; these success stories would also motivate many farmers/women to shift from subsistence farming to commercial value added agriculture.

I congratulate the team which made this publication see the light of the day. I appeal to all the readers to spread the word of success in the farming community.

  
(Sanjay Agarwal)

Date: 07.10.2020





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## 1

## JOURNEY OF NURSE TO BECOME A FARMER



Ms Nabanita Das , Village Potiya Goan, P.O.: Fokala Pather, Block: Jorhat West, Distt. : Jorhat, State: Assam-785111, Contact No.7576918243, email Id-dasnabanita966@gmail.com

### INTRODUCTION:

- Ms. Nabanita Das, daughter of Late Ananda Das of Jorhat district in Assam is a young, energetic and dynamic progressive woman farmer. After passing her High School Learning Certificate Examination, she got trained as a Auxiliary Nurse. Though she nursed the ailing human being, being a daughter of cultivator; she nursed a 'farmer' in her heart all along.

### TRAINING AND MOTIVATION:

- While working as a nurse, she developed an attraction to farming on seeing the green fields on both sides of the road on her way to the hospital.
- After few years she chose farming as her occupation leaving nursing profession from a government hospital of Jorhat and started organic farming from the year of 2010.
- Now she is an established progressive farmer of repute and owner of "Nabanita Organic Farm".
- Her first formal training was a training programme on Horticultural crop in 2014 organised by Department of Agriculture, Govt. of Assam (GoA). Thereafter, she attended trainings under Horticulture Mission for North-Eastern and Himalayan States(HMNEH), RKVY, Assam Agribusiness and Rural Transformation Project (APART), GoA at various times.

### ACHIEVEMENTS:

- With the trainings and handholding from District Agriculture Department, Assam; Assam Agricultural University and Krishi Vigyan Kendra; she made significant progress towards becoming a progressive farmer and agripreneur.
- Now she is an established progressive farmer of repute and owner of "Nabanita Organic Farm" at her village.
- She converted her previous typical mono cropped rice land by adopting raised and sunken bed method into a model flower crop based farming system with integration of horticulture, fish pond and animal husbandry etc.

- At present her farm has become a small agri-hub with production of flowers (Anthurium, Gerbera, Gladiolus, tuberose etc), rice, different pulses, oilseeds, fruits and vegetables, fish (local type and carps), eggs, milk, goatery and different poultry breeds viz. Silky Chicken , Rainbow Roaster, Bonroja, Kadaknath, Turkey, Guniea fowl; Pigeon ((Masokali); duck breeds (White Peikin), Indian Runner and indigenous duck.
- The beauty of her farm is she has utilised every inch of the farm land as a productive asset utilizing vertical space also.
- Recently she has introduced vermicompost production and Azolla culture.
- Her earning from the land was merely Rs 4000/- before government interventions. Now she earns Rs. 30,000/- net profit in first year (2014) Rs. 56,000/- in 2nd year (2015), Rs. 96,000/- in 3<sup>rd</sup> year (2016), Rs 1,10,000/- in 4<sup>th</sup> year (2017) and Rs 1,25,000/- in 2019.

### CONTRIBUTING FACTORS:

- Regarding organic farming, she always says that, 'low cost of production, quality produce with best taste and opportunity to get good premium price organic production is really economically viable. As it has been a good demand in my locality as well as my nearest town Jorhat where buyers from different State and National level institutions along with local people are eagerly ready to buy these produces. In fact my organic farming and its produce has provided a viable income which encourage me to quit my government job. Converting from nursing to farming is the excellent example for my financial security.'
- She cultivates and preserves different type of indigenous scented rice genotypes like Keteki Joha, Kunkuni Joha, Kolajoha etc. Moreover she is cultivating black rice which originated in Manipur and is used to make different products of black rice.



**AWARDS & RECOGNITION:**

For her excellence in the field of Agriculture, she bagged some special awards.

- 1 Awarded for outstanding contribution in field of Agriculture by Vice-President of India, 2018 at Assam Agricultural University, Jorhat.
- 2 “Innovative Rice Farmer Award” by Indian Council of Agriculture Research, Patna in 2018.
- 3 ‘Progressive women farmer award’ in New Delhi on the occasion of Mahila Kisan Diwas, 2018.
- 4 On various occasions she has been Awarded by the Hon’ble Governor, Hon’ble Chief Minister and Hon’ble Agriculture Minister of Assam.

- 5 Moreover, she availed the chance to visit Vietnam to know about innovative cultivation practices along with other progressive farmers of the State sponsored by Govt. of Assam in the year 2019
- 6 Many distinguished personality has encouraged her by gracing her with their visit which include Hon’ble Chief Minister of Assam, Hon’ble Speaker of Assam Legislative Assembly, Hon’ble Agriculture Minister (GoA) & Vice Chancellor of Assam Agricultural University.

**INFLUENCE ON OTHER FARMERS:**

Many farmers and youth visit her farm to take a glimpse of her success and many have followed her footsteps.



## 2

Smt. Dipika Rabha, Village Pachim Dairang, PO Khargdang, , Dev. Block Krishnan, District Goalpara, State Assam Phone No. 8638017330



### INTRODUCTION:

- Smt. Dipika Rabha, W/o Sh. Tarun Chandr Rabha, aged 41 years is a dynamic and progressive woman farmer from a typical tribal village. She is educated upto matriculation. Presently, she is engaged in modern cultivation.
- She owns 12 bighas of lease in land where she grows scented (joha) rice.

### TRAINING & MOTIVATION:

- She was motivated towards broad based agriculture when she attended a training.
- Then she attended trainings organised by various Departments and organisations.

### ACHIEVEMENTS:

Mrs. Rabha got noticed by her fellow women friends and they made her their mentor.

- In the year 2015 in January a “*Sarpark Livelihood Promotion Society*” was established in her village Pachim Dairang and Smt. Dipika Rabha was nominated as a President of the Society. The Farmers under this Society attended different training programmes on modern agriculture practices conducted by the District Agricultural Office of State Agriculture Department and Rural Self Employment Training Institute (RSETI) of the district Goalpara.
- With the help of her husband, she started Piggery Farm with ½ Bigha of her homestead land with modern technology. She generally sold out 20-30 nos. of adult pigs annually. At present she has 40 nos. of upgraded adults of pigs & piglets in her farm.
- Smt. Dipika Rabha has started organic scented Joha rice cultivation in 12 bighas of land and organic Papaya cultivation in 5 Bighas of land. Besides cultivating field crops, Smt. Dipika Rabha also cultivates organic kharif & rabi vegetables and fruits etc. in her homestead garden.

### DETAILS OF CULTIVATION:

S. No	Year	Total Area	Name of Crops	Approx. Annual Income after expenditure	Remarks.
1	2018-19	12 Bighas (Leased Land) 5 Bighas (Leased Land) 14 Bighas Homestead Garden(Own)	Organic Scented Joha Paddy Organic Papaya Kharif & Rabi Vegetables( 4 Bigha each) Arecanut, Beetlevine, Coconut, Assam Lemon, Pinapple and others indigenous fruits (All Organic) (3 Bigha), Piggery unit (1/2 Bigha) Low cost mini Green house & Vermicompost unit (1/2 Bigha)	Rs.2,59,200.00 Rs.6,10,000.00 Rs.1,50,000.00 - Rs.1,00,000.00 Rs.1,05,000.00 Rs.1,75,000.00	Oil Palm & Rubber in growing stage.  For raising seedling & own use.

### RECOGNITION & AWARDS:

Her interest in Agriculture & Allied activities and also hard labour made her a progressive woman farmer and a leader of the women farmers’ in her locality.

She was selected as a ‘Best Women Progressive Farmers’ in the District in 2018. State government selected her for Mohila Kisan Award which she was awarded on 15<sup>th</sup> October, 2018 by the Hon’ble Union Agriculture Minister at New Delhi.



## 3

## INCOME ENHANCEMENT THROUGH AGRICULTURE



Smt. Suchitra Roy, Village: Diajahhree, District: Kokrajhar, State: Assam

### INTRODUCTION:

- Smt. Suchitra Roy, W/o. Lt. Jibeswar Roy, a lady farmer from the village Diajahhree of Kokrajhar District is a regular practising farmer. She has three family members at her home, mother-in-law, son and herself. After the death of her husband, the pension that she got was not enough to look after her family, so she took up farming to run her family. She has 11 bighas of total land holding. Her household and homestead garden occupies 2 bighas of land. Her total land for field crops occupies 9 bighas. She mainly grows paddy in her field during Kharif season. She grows local rice varieties like Aijung, Bhogdhan, Black rice and HYV Ranjit. She cultivates potato during rabi season. She also have mushroom cultivation from which she gets a good profit. She also grows pulse crops like blackgram and other vegetable crops like mustard, bhindi, tomato, cole crops etc.

### TRAINING AND MOTIVATION:

- She got training from Department of Agriculture, Kokrajhar and Krishi Vigyan Kendra (KVK), Kokrajhar and has knowledge of modern cultivation of crops. She uses farm yard manures and fertilizers in her field.

### ACHIEVEMENTS:

- At the beginning, Mrs. Suchitra Roy's income was very

low but after having proper training and timely supply of quality seeds and other inputs from Department of Agriculture and KVK. Her net yearly income has increased to lakhs of Rupees from a meagre income.

- Under Horticulture Scheme for the year 2018-19, she also got a power tiller from Department of Agriculture, Kokrajhar.
- She has also planned to grow more varieties of crops in her field in coming season. As she got the power tiller this year, she plans to make full use of it during her cultivation of crops.
- Apart from farming, she has expertise in other works like pickle making business and she also have an enterprise named Suprabhad Enterprise where she along with other ladies of the locality prepare incense sticks for which they have been awarded by National Bank For Agriculture And Rural Development (NABARD) for their splendid performances in agricultural and allied activities.
- By observing the income and passion of Mrs. Suchitra Roy, other ladies from that locality are also interested in taking up farming like her.

### AWARDS RECOGNITION :

- NABARD has awarded the Suprabhat Enteprise for their splendid performance in agriculture and allied activities.



## 4

## INTEGRATED AGRO-FORESTRY MODEL: A SUCCESS STORY

Smt. Gayatri. M.S., Village: Kulagana, Block: Chamarajanagar District: Chamarajanagar, State: Karnataka



### INTRODUCTION:

- Smt. Gayathri M.S, aged about 58 years actively involved in farming. She is from Kulagana village of Harave hobli of District Chamarajanagar. She is having 3.5 acres of land. Earlier, she used to grow only cereals, pulses & sericulture which was not remunerative for her.

### TRAINING & MOTIVATION:

- Once she accidentally came to know about the existence of Krishi Vigyan Kendra (KVK) during the year 2014. Then she had interaction with KVK scientists about the Integrated Farming System, soil and water testing.

### ACHIEVEMENTS:

- Firstly, she tested her soil and water of fields and based on the result of the tests, She is applying fertilizers on STCR (Soil Testing Crop Response) approach. Then she started cultivating vegetables, plantation crops and diversification in mulberry cultivation and silkworm rearing.
- She is having the separate rearing house for silkworm rearing and improved varieties of mulberry.
- She is also into Agro-forestry, Hebbevu, Teak, Silver-oak & Neem trees all along the borders of her farmland. She is very innovative and tries experimenting in her farmland.
- She has also planted cherry, apple and dates in her field. Cherry plants have already started bearing fruits. Coconut, mango, drumstick, papaya and other plants are also planted in her fields by practicing organic farming.

- She is having dairy animals and has also planted improved fodder crops in her farmland for dairy animals.
- She is managing vermicompost unit, bio-digester & gobar gas unit at her farm along with drip irrigation facilities for the crops.
- During 2015, she has received highest price for her bivoltine cocoons. She actively participates in training programmes both at KVK and line departments. She is a resource person for many of the training programmes conducted by line departments and other NGOs.

### IMPORTANCE TO OTHER FARMERS:

- She works as facilitator for 30 SHGs of Sri Kshethra Dharmasthala Rural Development Project (SKDRDP) and she is also President for one of the Federation in her area. She has given radio programme on Integrated Farming System. SKDRDP NGO brings farmers to her field in 3 to 4 batches every month for exposure visit. She gives information to the farmers about organic farming, market led agriculture, integrated farming system and water management.
- She sells her produce directly to the consumers without involvement of middlemen to Gundlupet and Mysuru market and gets money immediately with premium price.
- She is President for Milk Producers Cooperative Society Kulagana and Member for Primary Agricultural Credit Cooperative Society.



## 5

## A SUCCESSFUL BETEL VINE CULTIVATOR

Smt. Ashma M. Hombal, Village: Chalachgudda, Block: Badami, District: Bagalkot, State: Karnataka



### INTRODUCTION:

- A Bachelore degree holder from Chalachgudda village from Badami, Bagalkot district, Smt. Asma M. Hombal is 29 year old woman pursuing agriculture. Being totally different from what other graduates do after completing her graduation, Asma turned towards agriculture.

### TRAINING MOTIVATION:

- She was attracted to agriculture, after seeing the other members from her family practicing agriculture for livelihood and sustenance and then decided to be with them. Slowly she developed interest and added more and more crops to agriculture. Her family was cultivating betelvine since ages. But, Asma added banana and coconut to the farm diversity after studying the local market. Badami, a tourist place in Bagalkot near to her place attracts tourists throught the year ensuring continuous demand for coconut and banana.
- She is in continuous touch with ICAR-Krishi Vigyan Kendra, Bagalkot and Horticulture Department officials for getting guidance from time to time. She feels working jointly, judicious use of water, studying the market and planning accordingly and direct marketing are the secrets of success in agriculture.

### ACHIEVEMENTS:

- Betelvine is one of the most important commercial crop of Karnataka. Making betelvine cultivation more profitable compared to other crops. Once planted, plants will continue to yield quality leaves for more than 30 years, with proper care. On an average, each plant bears around 18000 leaves in one year out of which, around 6000 leaves can be harvested per annum. She is cultivating betelvine in 3 acres of land earning profit of 36,000 per month.
- Besides betelvine, the other major crop is banana. Two acres of banana cultivation fetches a profit of Rs 50,000.

G9 and Rajapuri banana varieties are cultivated keeping the market demand in mind. The yield of Rajapuri banana is less but it fetches more price, and G9 yields more. Thus, she is cultivating this combination of banana varieties for higher yield and better process.

- Her lawyer husband supports in procurement of inputs. They are having one borewell to support the entire 10 acre farm but recently there is acute shortage of the water outflow.
- In one acre of land she is cultivating vegetable. After growing for certain period the vegetable plots are given for auction which makes them feel assured about the returns. In one acre of land she grows cowpea earning around Rs. 15,000 profit per season. This also provides biomass to soil and fodder to animals.
- She has 200 coconut plants along the bunds earning a profit of Rs 50,000/month . Milea dubia, drumstick, neem trees along the bunds are the long-term investments for future income.
- Live fencing secures crops and also act as source of fodder. Guava, curry leaf and lemon plants serve the dual purpose of home consumption and additional income.
- Livestock unit with five buffalo, one cow of Holstein Friesian breed , three goats and a flock of 10 birds ensures manure requirement, meets family nutrition and regular income.
- She is earning around Rs 30,000 per month from livestock unit.

### IMPACT ON OTHER FARMERS:

- Joint family of six members is fully contributing to agriculture work thus saving cost on labour. Without depending on the middlemen, direct marketing of produce in the nearby markets has given them better price. She is a model women farmer for the other farmers.





## 6

## INTEGRATED FARMING SYSTEM : A MODEL FARM BY A WOMAN



Smt. Swapna James, Vill:Sreekrishnapuram Kulakattukurissi, Block & Taluk : Ottapalam  
Dist: Palakkad, State: Kerala, Contact : 9446369247

### INTRODUCTION:

- Smt. Swapna James is an indomitable woman with positive vibes for hard work. She lives at village Kulakattukurissi near Sreekrishnapuram in Palakkad district. After thirty years of farming, their agri farm has been declared has been as one of the best in Kerala and their daughter in law Smt. Swapna James was selected as 'The Karshakathilakam' in the state of Kerala (Award for the best women farmer in Kerala by the State Agriculture Department)in the year 2018. She is looking after the 19 acre family farm.
- The 19 acre farm semi circled by river Thoothapuzha with half of the area cultivated with Rubber ,the other nine acre fully kept in multicrop diversity with coconut, Arecanut, cocoa, Nutmeg, coffee, Jacktree and pepper .The boundaries with tree crop like Teak Mahagani Jacktree and Matti resembles a perfect model of sustainable agriculture. Half an acre near the farm house fully cultivated with diverse food and fruit crops like tapioca, banana, ginger, turmeric, yam, bitter gourd, chilly, snake gourd, little gourd, diverse tuber crops, etc and made the area as a model food crop ocean. She is also keeping 3 cows of Vechure breed (deshi cow of Kerala from Kottayam district) & different breeds of poultry,duck,quail and also goat are reared by her.
- All the farm inputs are self made and sourced from this nineteen acres farm. The zero budget preparations like Jeevamrutha, Beejamrutha Ghana Jeevamrutha Panchagavya and Thumboormuzhy and aerobic compost etc supported with live and dead mulching make the farm soil healthy and fertile. Solar light traps, bio-pest control measures and the bio-diversity balance & control the pest attack and diseases. Castings of chicks, ducks, quail and goat also support the soil enrichment.

### TRAINING & MOTIVATION:

- When she got married in an agriculturist family, she too started developing interest in farming and started using her time and keeping herself remaining busy in the farm. Smt. Swapna took first formal training on Agriculture at Palakkad.
- Participation in various trainings conducted by Agriculture department & Krishi Vigyan Kendra (KVK), exposure visits help her to update her knowledge and current information.

### ACHIEVEMENTS:

- Sheer hardwork and dedication helped her establish a model organic integrated farm with help and support from her family.
- Collecting all the novel and rare varieties of vegetables and other crops from the exposure visits made her farm a hub of bio diversity models.
- Sharing of such seeds and plants to those farmers who wish to cultivate the rare items also make their farm busy with visitors and scholars.
- Another replicable model in the farm is the rain water harvesting system, water storing ponds and diverse fish breeds in the water. The ponds rewards a decent income from fish culture and water storage support the irrigation needs in the drought season.
- The diversity of crops in her farm includes : 45 varieties of Mango like Chandrakaran, Mallika, Sindhooram, Kalapadi, 33 diverse jackfruit trees like all season, Gumless, Muttam Varikka, Thenvarikka, Sindhoori 26 Nutmeg varieties, 14 different Guava trees like Violet, Strawberry, Mundiri, Chinese and Kilogaava, 35 plantain varieties, 08 trees in lemon family, 18 different Colocassia, one dozen leafy vegetables, half a dozen Bhindi varieties, 14 different Tapioca and all other tubers and vegetables of diverse shapes and colours warrants a micro gene bank status and a must visit farm in the state. The total green treasures of Fruit trees, Vegetables & Medicinal plants also includes- Milk Fruit(Star Apple), Star Fruit, Egg Fruit or Canistel, Pomegranate, Burmese Grapes, Jabuticaba, Cherry, Longan, Soursop, Isrel Fig, Mulberry, Starwberry, Blackberry, Custard Apple, Lololikka(Flacourtia Jangomas), Gooseberry, Star Gooseberry (Otaheite Gooseberry), Ambazham (Spondias mombin), Pear, Anjili Tree (Artocarpus hirstus), Rubber Trees, Teak, Bamboo (10 Types), Passion Fruit (04 Types), Plantain(26 varieties).
- She also has a collection of varieties of medicinal plants which include: Tulsi (Holy Basil) Brahmi, Bhadrakshka, Chittamruth (Giloy), Panikoorikka(Patta Ajwain), Kacholam(Galanga), Vicks thulsi, Vayamb(Sweet Flag), Kizhar nelli(Bhoomi Aamlakhi), Karinochi(Nirgundi), Arutha(Sudap), Durian.
- Recently Swapna and her husband bought 70 cents(approx. 0.7 acre) paddy land and started natural paddy cultivation to make a trial on rice farming. They started cultivatin of

- A glimpse of Total Income and Expenditure of the farm :

S. No	Sources of Income	Income	Particulars of Expenditure	Expenditure
1	Nutmeg(1300 plants)	705200	Electricity	28,000
2	Arecanut(300 plants)	671500	Poultry manure	28,000
3	Coconut(210 plants)	440600	Farm yard manure	14,000
4	Fish	120000	Feed for fish	24,000
5	Others Banana, Arrowroot, Yam, Turmeric, Cardamam, Cocoa)	183400	Salary(12000*12)	1,44,000
6			Wages(320*350)	1,12,000
7			Coconut, Arecanut Harvesting cost	26,000
8			Miscellaneous cost	30,000
	Total	2120700		4,06,000

Total income: Rs.2120700/-

Total Expenditure: Rs.406000/-

Profit: Rs.1714700/-

Area : 4.75 Acres.

Net profit per acre: Rs.360989/-

food crops in 7 acres of leased land to satisfy their farming craze. Their life and massive works had been reflected in articles in dailies & journals including 'The Hindu, Malayala Manorama, Kerala Kumudhi, Mathrubhoomi, Rubber Magazine

### IMPORTANCE TO OTHER FARMERS :

- Smt. Swapna attributes her success to the technical inputs provided by Agriculture Department, KVK and encouragement and support of her husband and sons Alan and Kevin.
- Smt Swapana has also mobilized farmers to form farmers organizations and is the Director of Polima Farmers Producer Company. Swapna wholeheartedly shares her experience and information in workshops and training programmes to help others get motivated.
- Farm gate marketing of fresh pesticide-free vegetables and fruits have high demand which is giving an encouragement to other farmers to follow.

- Her family's dedication to farming is also reflected in the fact that her son is studying in 2<sup>nd</sup> year B.sc(Horticulture) in Horticultural College and Research Institute, Periyakulam under Tamilnadu Agriculture University.

### AWARDS AND RECOGNITION :

- Apart from the State Government Best Farmer Women award 'KARSHAKATHILAKAM' 2018, She conquered other prestigious awards & recognitions such as,
- KARSHAKASREE AWARD 2018 –instituted by Malayala Manorama
- KATHIR AWARD 2018 - Presented by Kairali People Television
- DESHABHIMANI JAIVA KARSHAKA AWARD 2016 presented by Deshabimani newspaper
- VOCATIONAL EXCELLENCE AWARD 2019 by Rotary International and many other.



## 7

## EMPOWERMENT THROUGH INTEGRATED FARMING SYSTEM

Smt. PC Lalrinliani Village: Lawngtlai, L-III, State: Mizoram



### INTRODUCTION:

- Smt. PC Lalrinliani is a 58-year-old woman farmer from Lawngtlai (L-III) of Mizoram State. Today, as an independent farmer, she is happy to provide her family with nutritious food and provide employment opportunity for women folks like her widow.
- Earlier Smt. PC Lalrinliani was a conventional farmer having 1 Ha of land, practicing an aged-old traditional farming to support her family and growing local Vegetables like beans, pumpkins, tomatoes, ginger etc. Due to little knowledge on new agriculture technology and practices, she could not have good harvest inspite of her hard work and had to struggle a lot to make ends meet.

### TRAINING & MOTIVATION:

- Krishi Vigyan Kendra (KVK) Lawngtlai interacted with Mrs PC Lalrinliani during the early years of 2016.
- KVK Lawngtlai gave her training on the aspects of Integrated Farming System of Vegetables with Piggery and poultry (Broilers and Layers), Improved varieties of vegetables and Mushroom cultivation.
- During the year 2019-2020, apart from the ongoing Integrated farming system. cultivation of High Yield Variety soybean, Lentil and Rajmah under National Food Security Mission (NFSM) Cluster Front Line Demonstration (CFLD), she took up Cultivation of Groundnut under Polythene Mulch which was a grand success.
- After adoption of New Agriculture Technologies from KVK Lawngtlai, farm economics changed dramatically with utilisation of improved tools and equipments, quality seeds with improved package of practices, advanced technological know how and back stopping led to reduction of drudgery, improvement in women

labour and their efficiency resulting in higher yield and production at farm.

- Apart from family consumption Mrs Lalrinliani earns Rs 90,100 from integrated farming of vegetable-piggery-poultry farming. She also earn Rs. 54,500 as a profit from her other farm activities.
- Smt. Lalrinliani's main aim of farming is to provide nutrition for her family and generation of employment for poor Women getting employed in her farm.
- Land supplements her with most of the family nutritional needs apart from selling the surplus at local markets.
- Integrated farming system produce a variety of produce i.e different types of vegetables and pulses, meat etc.

### IMPACT ON OTHER FARMERS:

- She is an entrepreneur with a happy family. In addition she has started teaching person like her i.e. widows who are engaged in agriculture activities and have succeeded in turning 3 women (widow) from Mampui village and 5 (widow) from Lawngtlai L-III village into progressive women farmers till 2019.
- Her life story has inspired many women within the district. She has dealt her life in a challenging manner from being a woman as a wife of a Husband who was suffering from chronic illness and could not do any tough works and later passed away leaving her with 4 children, she struggled and raised her children and gave proper education till graduation. She hired women (widows) labour to work in her farm and teaches whatever she learned from KVK Lawngtlai. Many widows became a bread earner in the family under her influence.
- She became a role model for women farmers within Lawngtlai areas. She was felicitated at the celebration of Mahila Kisan Diwas organised by KVK Lawngtlai.



## 8

# INTEGRATED FARMING SYSTEM- A GATEWAY OF SUCCESS FOR FARM WOMAN



Ms. Amarjeet Kaur, Vill: Adhoyi, Block- Barara, Dist: Ambala, Haryana,  
Contact - 7015876379

## INTRODUCTION:

- Ms. Amarjeet is a graduate, aged 32 years with 13 years of farming experience. She is a well-known progressive woman farmer in Adhoyi village and agriculture is the main source of income to fulfil the basic requirement of her family. As a family member, she used to work on her father's family farm part time but when her father suffered with paralysis in 2007, she took the full charge of managing her family farm.
- She possesses 3.4 ha (8.5 acre) land with irrigation facility. She has small dairy unit with two Buffaloes. She has all the modern machinery on her farm including Submersible Tubewell, Tractor, M.B. Plough, Disc Harrow, Happy Seeder, DSR etc. She is very active on Social Media also and has her own Website (<https://www.facebook.com/amarjitkaur.adhoi>), and You tube channel (lady farmer Amarjit Kaur[Adhoi]).

## TRAINING AND MOTIVATION:

- She used to grow traditional crops on her farm with average yields of various crop and animal enterprises before coming in contact with Extension functionaries of Agriculture Department and Subject Matter Specialist of Krishi Vigyan Kendra (KVK), Ambala. Thereafter, she was exposed to latest improved new technical knowledge of agriculture and her attitude changed towards agriculture and she was motivated to take agriculture as agri-business with adoption of all latest technologies for improving production and productivity of her farm. She attended various training programmes at KVK Ambala and availed advisory services from KVK team and experts from Agriculture department.

## ACHIEVEMENTS:

- She practices various crop enterprises mainly with three cropping patterns on her farm i) Rice-Wheat-Moong, ii) Sugarcane+Onion-Ratoon, and iii) Potato-Onion-Fodder. With the technical guidance, she is practicing Resource Conservation Technologies (RCTs), Soil Testing and uses improved variety of seeds all the crops viz; Wheat, Chickpea, Mungbean, Mustard.

- Along with using improved varieties she also practices seed treatment followed by treatment with bio fertilizers and resource conservation technologies for getting high returns and reduce cost of cultivation.
- Success in integrated farming system with milk from dairy unit, use of vermi compost, vermi wash in Crop production, Bamboo staking in cucurbit crops and growing of high yielding fodder varieties.
- Keeping in view of water scarcity she switched over to *kharif* Maize cultivation in replace of rice crop in some area
- In view of changing climatic scenario and excess use of chemical fertilizers and pesticides in crops, she shifted to organic farming two years back and received technical guidance from KVK team under *Parampragat Krishi Vikas Yojna* of Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare.
- By all these crop and livestock enterprises she is earning a handsome net income of Rs. 6.7 lakhs per annum.

## CONTRIBUTING FACTORS:

- Basically, her activeness, sincerity and hard-working nature has contributed in her success in addition to technical guidance from experts from KVK and State agriculture department officials. With those of her qualities and timely technical advice and proper timely implementation has transformed her life which she never thought.

## AWARDS/RECOGNITION:

- She has received many Awards at district level by Hon'ble Ministers, Hon'ble MLA (Ambala City), Sh. Aseem Goel, Agriculture Department, Krishi Vigyan Kendra, Ambala, Rotary Club and *Prayas Sewa Sanasthan*, Barara etc.

## IMPORTANCE FOR OTHER FARMERS:

- She is recognized as a progressive Farm woman & Master Trainer for farmers in the district & women are following her steps.



## 9

# INTEGRATED FARMING AND KITCHEN GARDENING



Smt. Hemalatha. M. C W/o Shivanna. M. E. Village: Mikkere, Post: Kirugavalu, District : Mandya, State Karnataka, Contact details : 6361562597, 9480043257

## INTRODUCTION:

- Smt. Hemalatha owns two acres irrigated land and has taken into lease another 03 acres of land. On these 05 acres of land she grows field crops and also fruits and vegetables; She also rears sericulture, livestock, poultry and produces vermicompost.

## TRAINING:

- She is a beneficiary of Agricultural Technology Management Agency(ATMA), National Food Security Mission(NFSM), Mahatma Gandhi National Rural Employment Guarantee Act (*MGNREGA*) and received training on various subjects in agriculture and allied sectors implemented from both State and Central Schemes in the State.

## ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- She is practicing the following innovative technology and practices:
- System of Rice Intensification (SRI) method of rice cultivation.
- Mulberry cultivation and silkworm rearing
- Vegetable cultivation
- Fodder cultivation

- Livestock rearing, poultry farming and fodder Management
- Vermi compost preparation
- Bullock cart operated by single cow
- Kitchen Gardening
- Production of high quantity of Milk and supplying directly to Jersey Dairy without Middlemen
- She contributes her success to Integrated Farming System approach by including almost all complementary enterprises.
- She is marketing vermi compost produced to local farmers and nurseries and milk produced directly to Jersey Milk Dairy Gowdagere, She also rears Silkworm and sells them at local cocoon market and effectively utilizes Dairy and sericulture waste for the production of Vermicompost which are proving to be an example for the farmers natural resources utilization in the best manner.

## RECOGNITION & AWARDS:

2015 – “Karnatakada Kanmani Rajya Prashasthi”

2015 – “Taluka Level Best Youth Women Progressive Farmer”

2014 – “Dialogue on Importance on Integrated Farming” organized by Prasar Bharathi, Mysore.

## INCOME-EXPENDITURE STATEMENT:

S. No.	Unit	Yield/ Month	Rate (Rs.)	Monthly Gross income (Rs.)	Monthly expenditure (Rs.)	Monthly net income (Rs.)
1.	Livestock rearing and Dairy	70lits/day	30/lit	63000	37800	25200
2.	Vermicomposting	5 tons/ Month	7/kg	35000	15000	20000
3.	Mulberry Cultivation and silkworm Rearing	100kg	250/kg	25000	10000	15000
4.	Kitchen Gardening and Poultry and Duck rearing	-	-		-	5000
Monthly Total Income (Rs.)						65,200/-



## 10

## INTEGRATED FARMING SYSTEM: A SUCCESS STORY



Smt. Kamalamma W/o Nagaraju Mayaganahalli Kasaba Hobli, Village Mayaganahalli, Post Mayaganahalli, Taluka Ramanagar, District Ramnagar, Karnataka, Ph:9686044629

### INTRODUCTION:

- Smt. Kamalamma owns 7 acres of land out of which Irrigated land is 2.20 acre and Dry land is 5.00 acres. She uses this 7 acres land as per Integrated Farming System pattern for field crops, cultivation of fruits and vegetables, area for poly house/ sericulture/ livestock/ poultry/ farm pond and is owning a diversified enterprise.

### TRAINING:

- She is a beneficiary of Krishi Bhagya Yojana, Agricultural Technology Management Agency(ATMA), National Food Security Mission(NFSM), Mechanization and has attended many schematic trainings.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- Her field is a showcase of various innovative and new technologies which includes:
- Hybrid paddy-through System of Rice Intensification (SRI) method and mechanization for irrigation
- Paired row in Ragi cultivation (Ragi+Tur)

- Poly house – Production of Capsicum, Tomato & beans production
- Mulberry cultivation and silkworm rearing
- Livestock rearing, poultry farming and fish Farming in the farm pond
- Organic – Banana cultivation
- Mango and coconut cultivation and its marketing
- Bio-digester unit
- Fodder cultivation
- Bunds protected with fruit crops and forest crops
- Marketing in local shandies and middleman for main market
- She also export Capsicum to International market like Israel, Singapore and Arab countries.

### ACHIEVEMENTS:

- 2016 – Canara Bank Best Farm Women Awardee
- 2016-17 – District Level Best Farmer Awardee
- 2013 - Ramnagar District Best Farmer Award

### INCOME AND EXPENDITURE FROM AGRICULTURE AND ALLIED SECTORS :

S. No.	Crops/Activities	Area in acre & qty in No.	Season	Yield (kg.)	Total Income (Rs.)	Expenditure (Rs.)	Profit (Rs.)
1	Capsicum	0.5	Kharif	15000	870000	200000	670000
2	Tomato	0.5	Summer	1500	30000	15000	15000
3	Cowpea	0.5	Summer	1800	35000	5000	30000
4	Mango	3	Summer	10000	500000	100000	400000
7	Beans	0.5	Kharif	200	5000	1000	4000
10	Coconut	50 Nos.	Annual	2560 Nos	50000	10000	40000
12	Fish farming	60X100 feet	Annual	120	12000	3000	9000
14	Paddy	1	Kharif	3000	50000	20000	30000
16	Papaya	1000 Nos	Annual	25000	175000	25000	150000
18	Cows (HF)	4 Nos	Annual	10000 Ltr.	320000	100000	220000
20	Vermi compost	30X5X4 feet	Annual	9000	27000	4000	23000
22	Local hen and Giriraj	60 Nos	Annual		12000	4000	8000
	Total				2086000	427000	1595000



## 11

## A SUCCESSFUL INTEGRATED FARMING MODEL



Smt. Lekesh Bai, Address - Thanabodi Village, Thanabodi Block, Uttar Bastar

### INTRODUCTION:

- Smt. Lekesh Bai lives in Thanabodi Village under Thanabodi Block of Uttar Bastar Kanker District. She is practicing Integrated Farming System in her farm by cultivation of crop, fish cum duck, improved dairy, goat and poultry rearing

### TRAINING:

- She got training on Integrated Farming System and allied activities from Krishi Vigyan Kendra and State Agriculture Department on various occasions under different schemes.

### ACHIVEMENTS:

- Production of vegetables through Drip irrigation with polythene mulching
- Improved dairy and making dairy products i.e. Ghee, Paneer
- Practicing Improved goat farming
- Poultry farming
- Fish cum duck

### CHANGE IN NET INCOME:

- 2010-11 – Rs. 1,11,800/ annum
- 2016-17 - Rs. 7,46,650/annum

### IMPORTANCE FOR FARMERS:

She is now a source of inspiration for all the women and other farmers of the locality who are learning scientific practices for improving their livelihood. Approximately 850 no of farmers and farm women visited her farm during previous years.

### AWARD & RECOGNITION:

- (1) She received Farmer Fellowship Award 2016 provided by IGKV
- (2) Innovative farmers Award by ICAR Research Complex for Eastern Region, Patna 2018
- (3) Pt. Deen Dayal Upadhyay Krishi Antyodhyay Puruskar 2019 (Zonal)



## 12

## WOMAN FARMER STRIDES AHEAD WITH SMALL HOLDING

Smt. Vishakha Vithoba Velip, Village & PO: Barcem, District: South Goa , Goa-403703



### INTRODUCTION:

- Quepem is one of the talukas of Goa with Agriculture backbone. Most of the people are directly or indirectly dependent on agriculture and the farming activities. Various types of crops cultivation are being taken up by the farmers of Quepem. Women farmers mostly carry out the vegetable cultivation both in Kharif and Rabi season along with Paddy cultivation in Kharif season.
- Smt. Vishakha Vithoba Velip lives with her husband and has one son and two daughters. Her husband is a teacher by profession who supports and helps her in carrying out agricultural activities. She owns 6.5 acres of land. She is an active and self motivated farm woman who cultivates Paddy in kharif season and Vegetable cultivation in both Kharif and Rabi seasons. She cultivates paddy in an area of about 1.5 ha and also cultivate vegetable crops on 1000 m<sup>2</sup> area under hilly condition.

### TRAINING MOTIVATION:

- From the year 2017, she participated in the various training programmes such as Improved method/practices of paddy and vegetable cultivation, vermicomposting, virgin coconut oil preparation, bee keeping, vacuum packing of raw Jackfruit, value addition in locally available fruits and vegetables organized by Zonal Agriculture Office, Quepem.
- She is pursuing cultivation and other activities in consultations with the officials.

### ACHIEVEMENTS:

- She has purchased farm machineries by availing assistance from Department of Agriculture, Goa under the scheme Mechanization in Agriculture. She has carried out the farm activities more easily and efficiently by minimizes the labour cost through farm machinering the as Mini Tiller, Weed cutter, water pump, sprayer pump and electric tray dryer etc.
- She adopted System of Rice Intensification (SRI) method to grow paddy in the field.

- In Kharif season, she also cultivates Hilly vegetables such Khola Chillies, Cucurbits, Kate Konga (lesser Yams), Zad Konga (Chinese Potato), Colocasia Suran (Elephant Foot Yam) and turmeric with proper crop management practices. She sells the dry Kholla chillies at super stores such Borkars and Delfinos.
- Earlier she used to raise chilli nursery seedlings directly on ground. But currently, she raises Hybrid chilli seedlings in seed trays. She cultivates Hybrid Chilli varieties such as Nisha and Sitara in Rabi season and harvest green chillies and sells them at Goa State Horticulture Cooperation.
- She has set up a vermicompost unit and the compost is being used by her for growing vegetable crops. In addition to this, she is also cultivating hybrid marigold for loose flower purpose. She sells herself some of the vermicompost, local vegetables, snap melons, flowers on road side local market.
- She has also setup 5 Bee colonies in her farm.
- She does value addition processing of locally available agriculture produces such as Jackfruit chips, Kokum solam, Jackfruit and mango satta, Chilli powder.
- She prepares coconut broom and sells them in local market which gives an additional income.
- From the above all sources, she earns approximately Rs. 2.00 lakhs per annum.

### AWARDS AND RECOGNITION:

- She has been selected to participate in village level, district level and state level exhibitions organized by Agriculture Department. She has also been selected to participate in exposure visit within district, state and also inter-state visits organized by Department of Agriculture.

### IMPORTANCE TO OTHER FARMERS:

- With the technical guidance and schematic benefits from the Agriculture Department, she has transformed herself into a progressive farmer.
- She has motivated and inspired many women of SHG's of Quepem taluka in carrying out farming as a business activity.





13

## SUCCESS STORY ON PERFORMANCE OF TRANSPLANTED RED GRAM

Smt. B. Rami Reddy , Dist: YSR Kadapa, Andhra Pradesh, PIN- 516390.  
Contact No.: 9441739553.



### INTRODUCTION :

- Smt. B. Rami Reddy is a progressive minded woman. She has been doing agriculture from the last 10 years. She is ready to take innovative ideas in agriculture. She had been cultivating red gram by broadcasting method which provided very poor yield.

### TRAINING & MOTIVATION:

- She was selected as one of the beneficiary for transplanting method of Redgram under ATMA Demonstration programme in 2017-18.
- She has participated in trainings on nursery raising, plant protection and transplanting in main field.
- She was immensely motivated to care for the new method of Redgram with enthusiasm even it was completely new method.

### ACHIEVEMENTS:

- During the cultivation, ATMA staff and Officers of the Agriculture Department provided her the Technical knowledge and pest and disease control measures in Redgram field.

### LEARNING FROM THE DEMONSTRATION:

- There is potential for transplanting method in Red gram, if taken up in good soils with high yielding varieties compared to traditional varieties like LRG-30, LRG-41 etc.
- Due to heavy rains in the month of September and

October, resulted in heavy weed growth and the farmer felt a bit difficult to take up inter-cultivation and finally resorted for herbicide spray with Glyphosate @ 8ml/litre, which resulted in crop – weed competition during critical stages of growth. This is a set- back for the trial during the season.

- This method of transplanting in Red gram coupled with irrigation with drip and fertilization resulted in higher yields.
- This method of transplanting can be promoted and net returns to the farmers can be increased, if a policy decision is taken for premium price, as announced by the government this year.

### IMPORTANCE TO OTHER FARMERS:

- Officials from Agriculture Department and scientists visited her field and appreciated the farmer for her hard work and appealed to other farmers to follow her attitude towards innovative Agricultural approach.
- Due to the more profitability of the crop, many of the farmers in the area have shown interest in cultivating transplanted Redgram in the next season.
- 50 Farmers from adjoining areas visited her Red gram plot and inspired to follow the practice in next season.

### AWARDS & RECOGNITIONS:

- She received award from J.D.A. at the K.K.A. Meeting conducted in Pulivendula Division.



## 14

## BLACK GRAM CULTIVATION WITH NEW TECHNOLOGY



Smt. Tapasi Patra, Village & P.O.: - Ruppur, Block-Bolpur Santiniketan,  
Dist- Birbhum, State: West Bengal

### INTRODUCTION :

- Smt. Tapasi Patra and several other practicing farmer and farm women of Ruppur village, Bolpur, Santiniketan had undergone skill development training programmes on crop diversification through introduction of pulses during Kharif season 2019-20 organized by Rathindra KVK, Palli Siksha Bhavana, Visva-Bharati, Sriniketan in Birbhum District of West Bengal.

### SOURCE OF MOTIVATION:

- Smt. Patra after skill development training programmes had shown interest on pulse cultivation during kharif instead of kharif paddy.
- She encouraged other fellow farmers to become the partner farmers in the Cluster Front Line Demonstration Programme on Kharif Pulses viz. Black gram, 2019-20 conducted by KVK, Birbhum in their village.

### ACHIEVEMENTS:

Local Check			Demonstration			
Variety	Yield (q/ ha)	BC Ratio	Variety	Yield (q/ ha)	BC Ratio	Change in Yield (%)
Kali-50	5.6	1.94	WBU-109	12.75	4.16	127

### CONTRIBUTING FACTORS:

- The demonstrated variety WBU-109 is a short duration and takes 15-20 days less than the existing variety i.e. Kali-50.
- Average no. of branches of the demonstrated variety was also more by 6-8 numbers than the Kali-50 variety. The number of pods per plant was 60-65 in the demonstrated variety whereas in the case of the existing variety, it was only 30-35 in numbers.

### TECHNOLOGY AND INNOVATION ADOPTED:

- Farmers of Ruppur village generally grow Kali-50 (old variety) variety of black gram. They do not adopt any new technology and they have no idea about use of any micronutrients and herbicides.
- They hardly apply any fertilizers for black gram cultivation.
- Scientists of KVK, Birbhum motivated the farmers to adopt the latest technology of Black gram cultivation during kharif and accordingly conducted the CFLD in the village during 2019-20. The following practices were advocated and inputs provided by the KVK
- Use of seeds of Improved Variety WBU-109 @ 30 kg/ha
- Method of seed sowing: - Broadcasting
- Application of herbicides Pendimethalin @ 3 L / ha at 1- 3 days after sowing.
- Foliar Spray of Micro-Nutrients: B-20 @ 2 gm. / L of water at 25 and 45 days after sowing.

- The shiny black colour of the seeds of WBU-109 is very much attractive and fetches higher remuneration in market.

### INFLUENCE ON THE OTHER FARMERS:

- The demonstration plots attracted the attention of many farmers for its good crop stand and a bumper harvest. It is expected that people would adopt this improved/new technology to boost pulse production.



## 15

## ADOPTION OF INTEGRATED METHOD OF BLACKGRAM CULTIVATION



Smt. Sobhagini Bhutia, Kusasingha, Banarpal, Angul, State: Odisha

### INTRODUCTION:

- Smt. Sobhagini Bhutia is a progressive woman farmer and ready to adopt new technology of pulse production. She had undergone number of pulse production training programme conducted by KVK, Angul. She is motivated other farm women in her village to adopt the integrated method of pulse production.

### SOURCE OF MOTIVATION:

- Mrs. Bhutia, had been growing pulses like blackgram for a long period. However, the production was very low. After undergoing technology development training programmes at Krishi Vigyan Kendra, Angul, she has shown interest in adopting the integrated method of pulse cultivation.

### TECHNOLOGY AND INNOVATION ADOPTED:

- Seed treatment (carboxin + thiram @3g/kg of seed before sowing); application of herbicide (Imazethapyr @1 L/ha at 20 DAS); plant protection measures (application of Prophenophos + Cypermethrin@1 L /ha) against red hairy caterpillar and Thiomethoxam @ 125g/ha against white fly (YMV).

### CONTRIBUTING FACTORS:

- Seed treatment, Line sowing, weed management and timely application of pest control measures led to higher yield as compare to farmers practice.
- Timely availability of seed and plant protection measures can make the technology more successful.

### ACHIEVEMENTS:

#### PERFORMANCE OF TECHNOLOGY VIS-À-VIS FARMERS PRACTICE

Used Practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	BC ratio
Farmers practices	4.54	14930	16798	1868	1.12
Demonstration	7.08	22540	26196	6656	1.29
% Increase in yield	55%	-	-	-	-



# 16

## ADOPTION OF HIGH YEILDING MUSTARD FOR HIGHER PRODUCTION



Smt. Jhumuri Sahu, Vill: Phulasarapalli, GP: Chadheiapalli, Block: Aska, District: Ganjam, State: Odisha

### INTRODUCTION:

- Smt. Sahu, is a progressive farm woman and successful in homestead poultry farming. She was interested in oilseed cultivation as traditional cultivation of mustard was hampered by various factors including aphid infestation.
- She attended technology training programme on oilseeds production provided by KVK, Ganjam.

### SOURCE OF MOTIVATION:

- With technical knowledge acquired from the KVK personnel and desire to obtain a higher production of mustard in the locality, she was motivated to participate in CFLD Oilseeds programme. The training provided her motivation to adopt all the practices judiciously as advised and see herself the result of good efforts.

### TECHNOLOGY AND INNOVATION ADOPTED:

- High yielding variety of mustard:- *Uttara*,
- Fertilizer application-NPK: 60:25:25 kg/ha
- Application of post emergent herbicide-Quizalofos ethyl

at 20 DAS @1 Litre/ha.

- Basal application of Boron @ 1kg/ha
- Spray of plant protection chemicals like Thiamethoxam @ 150gram/ha for controlling Aphids infestation.
- Spinosad@150 ml/ha for controlling Sawfly & leaf miner.
- Carbandazim + Mancozeb@ 1kg/ha for controlling Stem rot & Rust diseases.

### CONTRIBUTING FACTORS:

- Uttara* variety of mustard is moderately resistant to white rust, downy and powdery mildew which contributed 9000 kg yield/ha. The recommended packages of practice ensured better yield due to success in controlling the weeds and aphid population. It has long siliqua (5.2 cm) with 13-18 seeds/siliqua on an average.

### INFLUENCE ON OTHER FARMERS:

- Farmers of the village were convinced that adoption of modern technology and judicious use of all required inputs.

### ACHIEVEMENTS:

### PERFORMANCE OF TECHNOLOGY VIS-À-VIS LOCAL CHECK (INCREASE IN PRODUCTIVITY AND RETURNS)

Used Practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	BC ratio
Farmers practices	6.2	15500	26040	10540	1.68
Demonstration	9.0	18400	37800	19500	2.05
% Increase in yield	45.16				



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## ADOPTION OF HIGH YIELDING GROUNDNUT, VARIETY DHARANI

Ms. Rashmita Sahu, Vill.: Barida, GP.: Barida, Block: Kabi Surya Nagar,  
Dist: Ganjam, Odisha



### INTRODUCTION:

- Ms. Rashmita Sahu, is a small farmer but very keen to adopt new agricultural practices. She participated in many training programme organized by KVK Ganjam on pulse and oilseeds production technologies.

### SOURCE OF MOTIVATION:

- After undergoing a number of training programmes on pulse and oilseeds production technologies, Ms. Rashmita Sahu had shown interest in cultivating groundnut with new High Yielding Variety (HYV) and improved package of practices as guided by Scientists of KVK, Ganjam. KVK scientists helped her in all technical aspects to grow Groundnut, Var. *Dharani* and provided other inputs.

### TECHNOLOGY AND INNOVATION ADOPTED:

- Training provided by KVK, Ganjam convinced her that if all inputs are properly used and the field is looked after well, she would certainly succeed.
- She used the following inputs as advised and supplied.

- Use of HYV Groundnut, Var. *Dharani*, 75 kg/ha
- Seed Treatment by Cloropyriphos
- Method of seed sowing: - Line Sowing
- Application of Thiamethoxam @ 150 gram/ha for sucking pests, Hexaconazole @ 1 litre/ha. for Tikka disease

### CONTRIBUTING FACTORS:

- Using HYV groundnut variety *Dharani* which is drought tolerant, having uniform maturity, attractive pods and moderate stature.
- Adoption of recommended packages of practices ensured better yield

### INFLUENCE ON OTHER FARMERS:

- Farmers in the village developed interest in scientific cultivation of groundnut with good High Yielding variety and proper technology.

### ACHIEVEMENTS:

### PERFORMANCE OF TECHNOLOGY VIS-À-VIS LOCAL CHECK (INCREASE IN PRODUCTIVITY AND RETURNS)

Used Practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	BC ratio
Farmers practice	22.4	35,000	67,200	32,200	1.92
Demonstration	31.8	43,200	95,400	52,200	2.20
% Increase in yield	41.96				



## 18

## CROP DIVERSIFICATION: SUCCESS STORY OF A WOMAN FARMER

Smt. Sangeeta Walmik Sangle, Village: Satygaon, Post :Mukhed, Taluka : Yeola, District: Nashik, State: Maharashtra



### INTRODUCTION:

- Smt. Sangeeta Walmik Sangle is a small farmer and holding 2 hectare land. She has a family of 6 members.
- She is the leader of Rajhans Krushi Vidnyan Mandal at Satygaon. The group has 20 members.

### TRAINING & MOTIVATION:

- Initially ATMA, Nashik helped in group formation and motivation. After getting training on improved technology in Guava and Pomegranate. She also got training on Dairy Farming from ATMA, Nasik.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- At present her cropping pattern includes cultivation of Guava with Red Pumpkin and Pomegranate with Drumstick.
- She also grows Onion, Grapes and Vegetables under

shade net.

- She sells her produces at various markets namely Thanpada Kalyan Mahadev Complex at Thane, Sant Shiromani Shree Sawata Mali Shetkari Athwade bazaar, Mumbai and taluka level markets.
- By the inspiration from Dairy farming Training by ATMA, she purchased 4 cows and get monthly income Rs. 18,000/-. She is also earning Rs. 1.40 lakh from Drumstick (4 tonnes @Rs.35/kg) and Rs. 1.5 lakh from Red pumpkin (yield 15 tonnes).

### RECOGNITION:

- She has been awarded with Krushthon Yuva Sanman-2018 (Innovative Women Farmer).
- She received Shetkari Gut Nyondani Award by ATMA, Nasik.
- She also received Krishi Gaurav Award by Jai Kishan Farmers Forum.



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## HYBRID MAIZE CULTIVATION: SUCCESS STORY OF A FEMALE HEADED FARM FAMILY



Smt. Yangden Lepcha, Village Lingthem, District North Sikkim, Contact No.8159943703

### INTRODUCTION:

- Smt. Yangden Lepcha, w/o Lt. Kenjong Lepcha, is a progressive farmer of Lingthem village which is situated at 3750-4200 feet above Mean Sea Level.
- She has 4 members in her family. In spite of death of her husband, she is a successful progressive farmer due to her dedication and hardworking nature. She practices integrated farming.
- She has keen interest on adoption of new technology. But she had been doing cultivation with traditional method. She is a member of Self Help Group.

### TRAINING & MOTIVATION:

- She has been aided in her venture from various bodies and organisations like ICAR-KVK, ATMA, Agriculture, horticulture and Animal Husbandry Departments.
- ATMA, North Sikkim observed her activities and initiated a demo on maize cultivation based on participatory mode and offered necessary training.
- She was trained and motivated by KVK scientists. She used the service of Kisan Call Centre for getting the answers of queries related to agriculture & allied sector.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- She received 15 kg Hybrid Maize Seed (Variety: C -1921) from Food Security and Agricultural Development Department for a demo plot of 1.5 acre of land.
- She also received vermicompost to meet the manurial requirement. She took the scientific management from sowing to harvesting. Seeds were sown at 20 cm distance between seed to seed and 45 cm row to row.
- Because of the interventions taken, she could get an increased yield of 24.35/ha quintals as against 13.0 q/ha in traditional method.
- The grain quality was good, healthy and attractive which fetched Rs.35 per kg against Rs. 25 per kg of her previous harvest.
- In total, she earned Rs.77,225/- from her Hybrid Maize crop against Rs.24,500/- from her previous crop of traditional local maize.

### IMPORTANCE TO FARMERS:

- The success of Mrs. Yangden Lepcha has motivated the villagers to adopt hybrid maize cultivation. She shared the knowledge and skill gain through training with fellow farmers.



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## SUCCESS STORY ON BROADCASTING/DIRECT SOWING IN PADDY



Smt Rupireddy Laxmi W/o, R.Thirupathi Reddy, Village:-Kondapalkala, District: Karimnaga, State: Telangana, Mobile No:9490535102

### INTRODUCTION:

- Smt Rupireddy Laxmi is having 8.0 acres of paddy land with well irrigation.

### TRAINING & MOTIVATION:

- She got training under ATMA and was offered the Demonstration on 1.0 acre of land during Kharif, 2018. Demonstration on Broadcasting/Direct sowing method in paddy was carried out in her field with the help of ATMA during the Kharif-2018-19.
- She used 15 kg seeds of paddy variety 'KNM-118' (Kunaram Sannalu) per acre and broadcasted directly in the main field without raising nursery.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- She realised that by this method the plants will not be subjected to stress such as being pulled out from the soil and re-establishing fine rootlets in the main field which

takes a time lag. The time for growing nursery and the expenditure involved is also saved.

- To overcome weed problem, the farmer had sprayed weedicide Assert @ 500 ml/acre. Timely sowing leads to less pest infestation. In this method (Direct Broadcasting), the total labour cost is reduced due to no nursery raising and transplanting. Yield obtained per acre is 29 Quintals (72.5 Quintals per hectare).
- The farmer got net profit of 1,34,500 per hectare by selling paddy @ Rs.2200 per Quintal. The farmer is very satisfied and willing to expand the area by this method in the next season.

### IMPORTANCE TO FARMERS:

- Demonstration on Broadcasting/Direct sowing in paddy carried out in Rupireddy's field has motivated the farmers of the village to adopt this method in their fields too.
- The cost saving concept and lessening drudgery has attracted the farmers.





## 21

# NUTRITIONAL SECURITY THROUGH BACKYARD LAYER POULTRY FARMING



Ms. Chupen Phom, Village: Hukphang, District: Longleng, State:Nagaland

## INTRODUCTION:

- In Longleng district, majority of the farmer rear indigenous poultry birds only due to non-availability of improved varieties of chicks in the market.
- Longleng district enjoys monsoon type of climate with a minimum temperature of 10° C in winter and a maximum of 28° C in summer.
- The weather is well suited for rearing improved varieties of poultry birds in the district.

## KVK INTERVENTIONS:

- Taking into consideration the potential of poultry rearing in Longleng district, KVK conducted training programme on poultry farming management during the month of May 2019.
- Interested farmers were selected for rearing Srinidhi chicks at backyard. Inputs like day old chicks, medicines and feed materials were distributed to the trainees.
- The chicks were vaccinated as per schedule.
- Among trainees, Ms. Chupen Phom was more interested in rearing Srinidhi chicks for egg production.

## ECONOMIC ANALYSIS:

- Critical inputs like 100 numbers of Day old chicks, feeder, drinker, antibiotic powder, liquid vitamin supplements were provided.
- The overall survival rate was 92 per cent up to 20<sup>th</sup> week.

- The average body weight at 4<sup>th</sup> week was recorded 485±150 g per bird that increased up to 3095± 61.9g at 20<sup>th</sup> week.
- The poultry birds was reared up to 32 weeks only.
- Commercial ration were given with additional supplement of feeds like maize, paddy grains and green leafy vegetables.
- The income was mainly from the sale of live birds and eggs at the rate of Rs.350 per kg and Rs. 8 per piece respectively.
- The net return from the sale of culled live birds and eggs is Rs.91640 with B:C ratio of 1:1.66.

Particulars	Gross income (Rs.)	Gross cost (Rs.)	Net return (Rs.)	B:C ratio
Sale from culled live birds and eggs	91640	55000	36640	1:1.66

## MARKETING:

The culled birds and eggs were sold within the village and in local market.

## IMPACT/HORIZONTAL SPREAD OF TECHNOLOGY:

The meat and egg of Srinidhi bird were highly accepted by the public and her success has motivated the fellow villagers especially the women folk to rear poultry as a means of nutritional security and income generation.



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## DETERMINATION AND COURAGE LEAD TO SUCCESS

Ms. Vevohulu Churhah, Village: Rukizu Colony, Pftusero-797107, Dist:Phek, Nagaland,  
Contact No.: 09862584232



### INTRODUCTION:

- Ms. Vevohulu Churhah hails from an agricultural family at Rukizu Colony, Pftusero. District Phek, Nagaland.
- She spent her early childhood assisting her mother in doing agricultural field for growing field crops & vegetables.
- Pursuing her education at the same time, she graduated in the year 2010 in the field of arts & literature.
- She worked as an accountant in a private school till 2016. She decided to venture out with a dream of becoming a successful agripreneur.
- She set up a piggery unit with 9 breeding sow and a boar jointly with a friend by investing little financial resource. A freak of fate, all her pigs were wiped out by an epidemic of classical swine fever.
- “Failure is the pillar of success” – Vevohulu believed it and decided to try another enterprise.

### TRAINING & MOTIVATION:

- Khaki Campbell is known to be the best layers of all the domestic ducks. Khaki Campbell ducks lay about 280 to 300 eggs per year (more in the first 2 years) and, with proper management, will continue to lay well for 4 - 5 years. Campbell’s lay their first eggs between 5 – 7 months of age. Khaki Campbells are excellent foragers and withstand cold, hot, humid, or arid climates very well.
- In January 2018, Ms. Vevohulu Churhah approached KVK-Phek for guidance & technical assistance.
- In March 2018, she undertook duckery project with 200 of Khaki Campbell breed from KVK after attending a scientific duck farming training organized by the KVK-Phek.
- A total of 100 duckling were provided under NABARD sponsored programme being implemented by the Krishi Vigyan Kendra(KVK) and she also contributed for another 100 nos.
- Rearing was done in free range system with night shelter. The birds were supplemented with commercial

compounded feed twice a day following a brooding period of 45 days. Ad libitum drinking water was provided. The male female ratio was maintained at 1:9. Additional drakes were disposed/sold at 20 weeks.

- With counsel on proper feeding, housing and health care, the duck matured and started laying late August 2018 that paved a way for generating income. Now, she is an established entrepreneur and has plan to further expand the enterprise considering the demand.

### ACHIEVEMENTS:

- Ms. Vevohulu succeeded with her duckery venture. She achieved a great success with Khaki Campbell ducks producing nearly 40,000 nos of eggs over a period of one year and supplied to nearby market.
- The eggs were fresh, large size and palatable. The entire produce was sold in the local market due to high demand of eggs and meat in the region.
- The eggs are sold at Rs 10/- per egg. The eggs have a regular space in the tiffin of the school goers and farmers in the locality.
- Ms. Vevohulu Churhah was also trained in proper cleaning, grading and packaging of eggs to get premium price in the market.
- The eggs with proper labelling on nutritive values in an attractive 6 egg pack were marketed in outlets in pftusero town.
- Ms. Vevohulu Churhah was highly benefitted from the duckery enterprise. She has also diversified her source of income. With the money earned, she started a livestock feed, supplement and duckling supply outlet at Pftusero town to benefit the farmers of the district. With the mounting business, she now employs 2 youths.

### IMPACT ON OTHER FARMERS:

- Seeing the success of Ms. Vevohulu many farmers have started commercial duck production in the district. In addition to 18 commercial farmers, near about 40 backyard duck farmers have taken up the enterprise.



**DETAILS OF INCOME FROM DUCKERY ENTERPRISE IS AS BELOW:**

S No	Intervention	Amount	Remark
01	Cost of Ducklings (200 ducklings X Rs 40/ducklings)	Rs. 8000.00	100 duckling from NABARD Spon. Scheme
02	Cost of feeds(upto 20 weeks) 12.5 kg/bird X 190 ducks X Rs 25/kg	Rs 59,375.00	Commercial compound feed provided upto 20 weeks. 5% mortality is considered
03	Cost of feed(from 21 <sup>st</sup> week to 76 <sup>th</sup> weeks) @ 100 gm/day (385 days X 145 birds X 0.1 Kg/bird X Rs 25/kg)	Rs 139562.00	130 ducks and 15 drake were maintained after disposing 55 drakes
04	Labour	Nil	Family labour
	Medicine/Supplements	Rs 5000	Calcium and mineral supplementation, deworming
	Total expenditure	211937.00	
04	Sale of 55 additional drakes (Avg. 2kg) @ Rs 350/kg	38,500	130 female and 15 drake were maintained after disposing 55 drakes
05	Sale of eggs(5 eggs/week/duck) for 64 weeks (39520 eggs @Rs 10/egg)	3,95,200	Considering 5% reduction in sale due to egg cracks, misshapen eggs, home consumption, gift etc
	Total Income	433700.00	
	Net Income	221763.00	
	B:C	2.04	

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## SCIENTIFIC INTERVENTION IN DAIRY FARMING



Smt. S. Lakshmi, Village: P.Kosavapatty, Block: Vadamadurai, District: Dindigul, State: Tamil Nadu

### INTRODUCTION:

- Smt. Lakshmi is a small scale farmer with five acres of land.
- Before 2016 she was earning a sum of Rs.24000/- annually as net income from amla trees cultivated in three acres of land which was not sufficient for raising her family.
- Due to low income she was unable to give good education to her children.
- She was desperately looking for new opportunities to start a new enterprise in order to boost her annual income for better living standards

### TRAINING & MOTIVATION:

- She underwent a training programme on “Dairy Farming” conducted by Krishi Vigyan Kendra (KVK), Dindigul, Gandhigram Rural Institute, Gandhigram where she learned about various aspects of dairy farming including selection of dairy animals, housing, feeding, breeding and scientific management of dairy cows.
- As a result of capacity building training by KVK, Dindigul she established a small dairy unit in her farm with 2 crossbred milch animals in the year 2017 as an additional enterprise and showed persistent growth in milk production by adopting the scientific dairy farming practices, she had learnt from the training which led to increase in her monthly income.
- The increase in income has motivated her to expand her farm activities and shift towards mechanization by purchasing chaff cutter, milking machine, brush cutter, etc with the help of KVK experts.
- By seeing her progress, one acre of the cultivable land

was selected by Krishi Vigyan Kendra, Dindigul for implementation of frontline demonstration on fodder bank at farm level where she cultivated Cumbu Napier Grass (CO-5), Hamil Grass/Guinea Grass (CO-GG3) and Hedge Lucerne in 50 cents, 25 cents and 25 cents of land respectively and sprinklers were used for irrigation purpose in the field to conserve water.

### ACHIEVEMENTS:

- Currently, Smt. Lakshmi has 10 dairy animals and became a successful dairy entrepreneur and producing 80 litres of milk per day which is sold to local vendors and consumers in her village.
- By selling the milk at the rate of Rs.25 per litre, she is able to generate revenue of Rs. 60,000/- per month.
- Furthermore, she has employed 2 labourers in her farm from the nearby villages to look after the daily routines of the dairy enterprise.
- She is also getting additional income by selling manure, fodder slips and fodder seeds.
- After meeting out all the expenses, she is now earning an annual net income of Rs. 3,60,000/- from dairying. She established an integrated farming systems model in her farm and purchased five more cows. Hydroponics was practiced for fodder cultivation. Her farm became a model for other dairy entrepreneurs to adopt similar technologies and motivated other farmers to attend similar trainings conducted by ICAR – KVK, Dindigul in dairy farming.

### AWARDS & RECOGNITIONS:

- She got best dairy farmer award from VUTRC, Dindigul



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## SLATTED FLOOR GOAT FARMING : A SUCCESS STORY



Smt. Brindadevi, Indira Nagar, Bangalapudur, Taluk: Gobichettipalayam, District: Erode, Mobile No: 9842482432, State: Tamil Nadu

### INTRODUCTION:

- Smt. Brindadevi is a graduate and involved in agriculture and allied farming activities since 2010.
- The annual income of her family was around Rs. 2 lakhs which did not meet the family expenses and children's education.
- She came to know that the slatted floor goat rearing is a beneficial enterprise.

### TRAINING & MOTIVATION:

- Goat rearing is one of the important aspects in dry land farming system. In rural areas open grazing is a common practice for rearing of goat flocks.
- Due to the reduction in open grazing there is a need to search another alternate option i.e. stall feeding or slatted floor goat rearing method.
- Krishi Vigyan Kendra (KVK), Myrada conducted training programme on slatted floor goat rearing during 2012. She attended the training programme and came to know about slatted floor shed construction, breed selection, goat breed up gradation, green fodder production, concentrated feed production, disease management and market linkage.

### ACHIEVEMENTS:

- She started slatted floor goat rearing shed with 10 local goats and gradually replaced with Tellicherry goat breed.
- In the beginning she sold out the kids and male goats for breeding and slaughter purposes in their block and later she expanded her marketing linkages to nearby blocks of Erode district.
- Goats are being sold as live weight for Rs. 250/kg for male and Rs. 300/kg for female at the farm gate.
- At present she is maintaining around 60 adult goats & 45 kids and 30 HF cross dairy cows in the farm.

- She is getting an annual income of Rs. 4,37,500 from the sale of 50 goats (9 months age) at an average weight of 30-40 Kg. She is selling FYM to other farmers also.
- KVK identified this goat farm as a model slatted floor goat rearing unit for KVK technical programmes.
- She started mixed fodder cultivation practices like Cumbu Napier (CO-5), Fodder Sorghum COFS-31 and Hedge Lucerne and supplying seed and slips to other farmers.
- Apart from Goat farming she started Mini dairy farming with 20 HF dairy cows and regularly selling milk in nearby areas.
- She established Mini Concentrate Feed preparation unit at farm level to reduce feed cost.

### IMPORTANCE TO OTHER FARMERS:

- 46 slatted goat units were established in Erode district with the technical support from KVK and this unit is an play as inspiration to other farmers to initiate slatted floor Goat farming.
- Documentary film has been produced on Slatted Floor Goat Rearing as a training material.
- More than 2400 farmers have visited the farm for updating their skill and knowledge on goat rearing
- MYRADA KVK conducted front line demonstration programme of Mixed Fodder Cultivation technology.
- Apart from Goat farming this successful woman entrepreneur became a government teacher in the year 2015. She continues to monitor the unit with the support of her husband and family members.

### AWARDS & RECOGNITIONS:

- Received award from ASPEE Foundation, Mumbai for "Best Woman Entrepreneur" for the year 2016 – 2017.
- The success story of woman farmer published in Daily Thanthi Sunday special edition.



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## AZOLLA AS LIVESTOCK FEED – A SUCCESS STORY



Smt. Khushi Lepcha, Village Lower Lingthem, GPU-Lingthem Lingdem, Distt. North Sikkim, Contact No.7872985193

### INTRODUCTION:

- Smt. Khushi Lepcha is a labourious and progressive farmer. Her village in Lingthem-Lingdem GPU is basically a milk producing area where farmers have been practicing dairy farming as primary income generating profession/occupation. She is a member of Self Help Group.

### TAINING & MOTIVATION:

- In dairy farming green fodder supply often becomes a problem. As such there was a need of alternate / additional sources of green fodder.
- ATMA identified the need of the village and offered a demonstration on Azolla cultivation as feed for cattle and other livestock.
- Accordingly, the plot of Mrs. Khushi Lepcha was identified as demonstration site. A group of villagers were trained on the subject matter.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- The demonstration was conducted on a simple pond of 14'x14'x2' dimension. Azolla pond was provided by

Food Security and Agriculture Development Department and the Azolla seed was provided by Animal Husbandry, Livestock, Fisheries & Veterinary Services Department.

- Training and technology demonstration was provided by ATMA, North Sikkim district.
- Harvesting of Azolla was done in 15-25th day of starting and fed to cows. The villagers noticed marked improvement in milk yield, quality and overall health condition of animals. Azolla proved to be palatable to cows from eating behaviour as compared to other fodder.
- Another positive aspect is that the rate of biomass production is rapid to ensure a steady and sustainable production at doorstep. From 14'x14'x2' size pond production was 600 kg which was sold @ Rs.20/kg. It earned Rs.12,000/-. The total cost involved Rs.3,000/- Thus a profit of Rs.9,000/- was earned.

### IMPORTANCE TO FARMERS:

- The participant farmers involved in the training and demonstration realized the benefit of Azolla cultivation as livestock feed. There has been a horizontal spread of the technique. The farmers are happy to be benefitted with the Azolla farming technique and up gradation of their skill.



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## SUCCESS STORY OF A DAIRY WOMAN



Smt. Abboju Jyoti, Village : Perikavedu, Block : Rajparthy, District : Warangal Rural, State : Telangana, Contract No. 9441018886

### INTRODUCTION:

- Smt. Abboju Jyoti is a small and traditional farmer, about 10 years ago she started a Dairy farm on two acres with one buffalo and climbed the success ladder.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- She bought a buffalo by barrowing a loan of rupees fifty thousand (50000/-) from Mahila Sangam. The buffalo yielded about 6 liters of milk per day. Later, she bought two buffaloes and seven cows.
- Then the shed was constructed by EGC. There is a sorghum fodder field around the farm for harvesting fodder. She bought a chaffer machine and grading mill machinery which costs Rs.20,000/-.
- Mostly she uses the fodder from her own cultivated farm but occasionally she purchases it from other farmers. Besides dairy farm, she started fisheries and poultry farm and wastage from these farms are used for gober gas.

- For monitoring the farm she employed one labour with a salary of Rs.35,000/- per year. Now she own a well established farm with 3 buffalos, 7 cows with a well constructed shed along with fisheries and poultry farm.
- She is earning about Rs.6,00,000/ year with only Rs.2,50,000/ expenditure.

### RECOGNITION:

- She has been certified from the All India Radio as best progressive farmer and certificate from the NSDC.
- Mrs. Abboju Jyoti has successfully cleared the assessment for the role of Dairy farmer/Entrepreneur (QP No. AGR/Q4101) conforming to national skill qualifications framework Level-4 Issued by Dr. R.S. Prasanna Kumar, Institution name KVK, Mamnoor, Warangal. She has also received Delhi DD Kisan Award.

### IMPORTANT TO FARMERS:

- This farmer who took up dairy farming and gave away a promising career is a role Model for upcoming farmers.



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## DAIRY FARMER ENGINEERED HER SUCCESS THROUGH TECHNOLOGY

Smt. Kamalpreet Kaur, Village :Pabbian, Tehsil : Jagrao, District :Ludhiana, State :Punjab



### INTRODUCTION:

- Dairy farming is very profitable business. Punjab has been playing significant role in the development of dairy production over the past few decades.
- Besides men's role, women also play crucial role in agriculture especially in the allied sector however women's role is grossly underestimated and undervalued. Their role includes various activities such as milking of the cattle, churning of cream to get butter and preparation of by-products of milk (such as lassi, cheese, curd).
- Now-a-days, switching to dairy farming (an entrepreneurial venture) is need of the hour. Keeping in view, Smt. Kamalpreet Kaur, w/o S. Inderjeet Singh, a 45 year old lady decided to join hands with the dairy department for the revival of the Traditional occupation of her in-laws on commercial basis with the latest technology.

### TRAINING & MOVITATION:

- In spite of handling all household chores, she worked with her husband in order to reach her family's business a new heights.
- She is progressive by nature therefore, she took training on "Modern Dairy Farming" from the Dairy Department under Mahila Sashaktikaran Scheme.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- After the training she decided to take dairy loan to add on various facilities such as fodder cutting machine, milking machine, silo pits. Bank approved her loan considering the increased income from milking animals in future.
- Later on she prepared Hi-tech shed for 50 cows according to the rules and instructions of the dairy department. She replaced old milking animals and bought improved high yielding cows. She understood the increasing demand of the hygienic milk production so she adopted Modern milking pipeline parlour with automatic milk handling facility. She decided to expand dairy farm and supported by her husband. She owned 8 acres of land and took 22 acres on lease to cultivate green fodder. She bought a Fodder harvester to prepare silage by realizing the nutritional requirements of animal. Now-a-days they have 38 cows and 24 calves, thus producing 4 quintals of milk which is being sold at PDFA.

### IMPORTANCE TO FARMERS:

- She took numerous trainings and other facilities from the department and thus attains a distinctive identity as a dairy farmer in her area in a short period of time. She is a role model for the other farm women in her community.

### RECOGNITION:

- In 2016 during dairy seminar, she was honoured as a progressive dairy farmer in JATT Expo.





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## GOATERY AS A SUCCESSFUL VENTURE



Smt. Bernali Baruah Duara, Vill: Charing Duarapara, Block: Gaurisagar Dev. Block, Dist: Sivasagar, Assam

### INTRODUCTION:

- Smt. Bernali Baruah Duara is a progressive farmer as well as stockwoman. Although she has completed her Masters Degree she is not running after a salaried job. Rather she has taken up Agriculture as a vocation and is doing different agricultural practices with success and established herself as a renowned progressive farmer in the locality. Now she rears a herd of 82 goat at her individual effort.

### TRAINING & MOTIVATION:

- She got training and motivation from ATMA, Sivasagar and Department of Animal Husbandry & Veterinary, Assam and ASSAM Agricultural University on various occasions.
- These trainings instilled in her mind to do something that earns her a bread and also give a message to the mass particularly the youth.

### ACHIEVEMENTS:

- She has successfully reared different species of goat adapting suitably to the climatic conditions of Assam. She is creating natural hybrids with local Assamese Hill Goat and Bitai from the Punjab, Sirahi from Rajasthan and Jamunapari from Uttar Pradesh.
- She has been inspiring the local people to take up goat

rearing practice and for this purpose established a Training Centre at her own residence with assistance from the Assa Science Centre, Department of Animal Husbandry & Veterinary, ATMA, Gaurisagar Block and other Veterinarians.

- Further she has taken a good initiative to produce balanced feed with proportionate amount of protein, minerals and calcium.
- She is highly motivated and supported by the Assam Agricultural University, Jorhat and Centre of Agricultural Science to produce napier, hybrid napier, dinanath and maize as feed fodder for her farm.
- Besides these, she has also been rearing different hybrid variety of chicken like BV-300, Banraja along with the most popular Turkey and Quail.
- Further as per the demand of local community she is also rearing various livestock like Broiler, Khaki Campbell duck, local duck etc.
- She has also taken an interest and approach to integrated Rice-Fish-Duck Farming.
- She owns a Fishery tank of about 1 Bigha (.013 ha) at her home.
- She produces vermicompost from the excreta of goat, birds and other agricultural waste for her own use and for sale.



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## INCOME AND EMPLOYMENT GENERATION THROUGH VERMICOMPOST

Ms. Kanika Talukar, Village: Borjhar, P.O. Barama, Blok: Tihu, District: Nalbari, State: Assam



### INTRODUCTION:

- Ms. Kanika Talukdar is a widow from Borjar Village of Nalbari district. She is 42 years old having Intermediate as educational qualification.
- Her life was hard after death of her husband. She was in search of a job for raising her only child and living a normal life.
- She engaged herself in different on and off farm activities and struggled for earning a livelihood.

### TRAINING & MOTIVATION:

- In the course of her search for a sustainable livelihood alternative, she came in contact with Krishi Vigyan Kendra (KVK), Nalbari. She participated in a training programme organized by KVK, Nalbari on Vermicompost Production Technology in the year 2014. She came to know about vermicompost for the first time after attending the training. After understanding the technology she was interested in adopting the production of vermicompost as enterprise.
- She became convinced that Organic farming is call of the hour, without vermicompost and bio pesticides no one can dream of organic agriculture. One of the major challenges of organic cultivation is control of insect pests and diseases and that can effectively be overcome by use of Vermiwash bio pesticide. As Vermicompost is inevitable for organic farming, demand will be ever increasing. Hence, an organized market for vermicompost will come up.
- Initially her financial condition was not good and she attached the technology as it requires comparatively less investment and is easy to start utilizing the organic waste materials and cow dung available in her own house.
- As she was a poor farmer, initially she constructed the low cost tanks with locally available materials (bamboo) as guided by SMS (Soil Science) KVK, Nalbari.

### ACHIEVEMENTS:

- KVK, Nalbari supported her by conducting a Front Line Demonstration (FLD) on 'Vermicompost Production Technology' in her field providing technical support and 1 kg earthworm species, *Eisenia foetida*.
- KVK, Nalbari facilitated her a linkage with District Agriculture Office, Nalbari and she was provided with 4 numbers of vermi beds from DAO, Nalbari. In the first year she produced 17q and earned Rs.16300/- only.
- She earned Rs140000/- by selling 150q vermicompost in

the year 2017. In this way, production has been increasing gradually year after year.

- She branded the product as 'Jay vermicompost' for marketing as per guidance of KVK, Nalbari.
- Now she invested some amount of money earned from selling of vermicompost for construction of other two concrete tanks for vermicompost production. Thus she expanded her unit to 10 numbers, became self-employed and earned livelihood by adopting this venture. This is the turning point for her life. Before adopting this technology her earning was very low and she could hardly manage her family.
- She marketed her vermicompost in Nalbari and Guwahati city and now it is available in various nurseries in and around Guwahati City.
- Besides Nalbari, her vermicompost market has been expanded to other districts of Assam like Darrang, Kamrup, Baksa, Goalpara, Chirang, Bongaigaon, Barpeta, Majuli etc. and demand has been increasing day by day because of its desirable quality. Recently, she started production of vermiwash bio pesticide and branded it as "Jay Vermiwash" and commercialized.
- In 2019 her production was 1000q with an annual income of 5-6 lakhs. She has a plan to further expand her vermicompost unit to 20 units within next 2 years. Within a short period of time Kanika Talukdar has achieved a remarkable success in vermicomposting and has become well known woman entrepreneur in the district as well as in the state.
- As a result her standard of living has also been uplifted. Now she has admitted her daughter in a good school at Nalbari town which was beyond her imagination before adoption of this venture.
- It is worth mentioning that, she is the only woman vermicompost entrepreneur of Assam receiving the license from State Department of Agriculture, GOA for supplying vermicompost.
- Today, she is well recognised for her 'Jay vermicompost' enterprise throughout the district as well as the state of Assam.
- She is more confident, can give public speech and invited and felicitated by different organisations. She has attained this independency through hard and smart work and scientific practices.
- A glimpse of production, expenditure and income from vermicompost:

Year	Production (q)	Cost of production (Rs)	Gross return (Rs)	Net Return (Rs)
2015	17	3600	16900	13300
2016	76	20000	76000	56000
2017	200	65000	190000	125000
2018	500	160000	485000	325000
2019	1000	290000	890000	600000

### RECOGNITION & AWARDS:

- With the support and suggestions of KVK, Nalbari, Kanika has also successfully completed two months training in Agripreneurship orientation programme under NITI Ayog at North East Agriculture Technology Entrepreneurs Hub (NEATeHub), AAU-Incubation Centre, Jorhat in the month of October, 2019 and she is expected to get a grant of Rs. 5 lakhs from NEATeHUB, AAU- incubation Centre, Jorhat.
- She was felicitated by Rotary club of Guwahati and recently she bagged the Woman entrepreneur award offered by Asom Sangrami Mancha, an NGO for her contribution to the society. Her vermicompost unit becomes a site for exposure visit for farmers lead by different organizations and nearby KVKs (Barpeta, Baksa, Kamrup) and she has been invited as a resource person in different training programmes on vermicompost production by several organizations and also by AIR, Guwahati.

- Moreover, she has created employment for two rural youth in her vermicompost unit. In her language “people know me for my quality vermicompost, self employed and able to provide all essentials to my daughter and meet my family need”. Now she is happy for her enterprise and also became a part of organic revolution endeavour of the state. This is a unique example of a journey from zero to a remarkable success.
- An awareness message is percolated in society on importance of using vermicompost and bio pesticides. People are aware about health hazardous affects of synthetic fertilizers and pesticides and attracted to benefits and importance of organically produced food. It is economically viable, environmentally safe, nutrient supplement for organic food production leaving no harmful residual affect. Hence, the scientific technology of vermicompost and vermiwash production and its commercialization definitely brings success to her life as an entrepreneur.

### INFLUENCE ON THE FARMERS:

- The unemployed women and youths of her village are also inspired by her activities and come forward to adopt vermicompost production. Inspiring by her works Mahima Haloi, Champa Rabha Barman, Rumi Talukar, Anjana Haloi, Lohit Das, Bina Haloi, Biswajit Haloi, Chakrapani Talukdar and a number of SHGs have also started production of vermicompost. Her enterprise also serves as a demonstration unit for those who are interested to adopt vermicomposting.



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## VERMICOMPOSTING - A SUCCESSFUL AGRO -ENTERPRISE

Smt. M Rupali Vijay Mali, Village- Kasba Sangaw, Tal: Kagal, Dist: Kolhapur(Maharashtra)



### INTRODUCTION:

- Smt. Rupali Mali, a Progressive woman farmer belongs to Village Kasba Sangaw (Tal. Kagal) in Kolhapur district, has taken on the occupation of Vermicomposting, rearing of earthworms and producing containing nimboli, karanj (Pongamiapinnata) along with agriculture.
- She is M.A. in sociology. For the last twelve years, by recognizing skills and customer demands, she has gained stability in shaping the business. The Mali family owns about two and a half acres of farmland.
- The young woman farmer takes complete responsibility of her farm and manages efficiently.

### TRAINING:

- Initially, the business was started by bringing in earthworm culture provided by the Zilla Parishad funded by the Khadi Village Industries Corporation.
- KVK Kolhapur-II has provided her scientific knowledge and practices for vermi composting.

### ACHIEVEMENTS:

- She initially started vermicomposting for supplying to her farm.
- Though she used it for own cultivation, she started selling excess quantity, slowly the number of customers continued to grow, and then she began to produce large quantities.

- At present, vermicompost is produced through eight beds and a commercial company named 'Samarth Agro Products Pvt. Ltd' has been established.
- She is producing 35-40 tonnes of Vermicompost per year and selling it at Rs 12 per kg.
- She is earning around 5,00,000/year which include Vermicompost (Rs. 3.5 lakhs,) Vermiwash (Rs. 50,000).
- Sale is done through telephone and physical contact to nearby farmers and newswires.

### IMPACT ON OTHER FARMERS:

- She receives demand from farmers in Goa, Pune and Karnataka apart from Maharashtra.
- She is providing employment to six women.
- She is also in process of establishing a Farmer Producer Company and joining more hands of rural women and farmers for providing more income and making them self-reliant.

### RECOGNITION:

- She is one of the innovative farmers and Scientific Advisory Committee member of KVK Kolhapur-II.
- She has represented KVK Kolhapur-II in Farmers Science Congress,2020 at University of Agricultural Sciences, Bengaluru.
- She has been awarded with Mahila Gaurav Purashkar by Rotary club and various other awards.



## 31

## ORGANIC FARMING BY ADOPTING VERMI COMPOSTING

SHGs Under ATMA, Goa



### INTRODUCTION:

- Vermicompost or Vermicast (also called worm castings, worm humus, worm manure, or worm feces) is the end-product of the breakdown of organic matter by earthworms. These castings have been shown to contain reduced levels of contaminants and a higher saturation of nutrients than the organic materials before vermicomposting.
- Vermicompost contains water-soluble nutrients and is an excellent, nutrient-rich organic fertilizer and soil conditioner. It is used in farming and small scale sustainable, organic farming.
- Vermicomposting has gained popularity in both industrial and domestic settings because, as compared with conventional composting, it provides a way to treat organic wastes more quickly.

### TRAINING & MOTIVATION:

- ATMA has worked and working tirelessly to convert Goan fields organic. In this context ATMA came up with the strategy in which the objective of promoting organic agriculture as well as providing a source of income for local Women farmers Self Help Group is fulfilled.
- The motive is to train local ladies with vermicomposting techniques. In turn the vermicompost would fetch lucrative prices to the Self Help Group along with helping the farmers grow organic produce by using the vermicompost.
- To achieve this ATMA along with local Zonal Agriculture Office, Dharbandora conducted series of meetings with the Women Self Help groups to motivate the local ladies to take up the initiative and the ATMA could convince those ladies for the project.
- Initially the Women self help group faced challenges in procuring the cow dung which is one of the important raw material which was solved by ATMA. While imparting training, along with ATMA Project Director and Deputy Project Director expertise from private enterprises was

also being involved. The earthworm species used for this project was *Eiseniafoetida*.

- ATMA identified 7 SHGs viz.
- Balsati SHG Kirlapal Dabal Dharbandora
- Sateri SHG Kirlapal Dabal Dharbandora
- Sati Bhagwati SHG Kirlapal Dabal Dharbandora
- Laxmi SHG Kirlapal Dabal Dharbandora
- Shri Jalmi Self Help group Marad
- Shri Mahadev SHG Marad
- Shri Mahanandi SHG Marad

### ACHIEVEMENTS:

- The Pilot project has emerged successful one as the four Self help groups from Kirlapal Dabal installed 4 plastic beds ( 12x3x2 feet) for preparation of vermicompost. Vermicompost was ready in two months. They harvested around 400kg of vermicompost during first harvest.
- Now the group has continued this activity to generate employment for themselves. They have already sold around 9-10 tonnes of vermicompost costing 10/- per kg from last 1.5 years.
- Now the group is on its way to install some more beds and expand their business.
- Another 3 self help groups from Marad Dharbandora are producing the vermicompost from last 3months. Now the groups have continued this activity and selling the vermicompost. Till date around 10-12 tonnes of compost has been sold by the groups.

### IMPACT ON OTHER FARMERS:

- The production from these SHGs are able to meet the demands of farmers to some extent.
- In near future the ATMA is looking forward to introduce this business strategy to other Women farmers Self Help Groups and create a vermicompost brand in the market with attractive packaging and is also aiming to introduce this product to new market destinations.



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## SUCCESS STORY OF BERKELEY COMPOSTING (18 DAYS COMPOSTING) METHOD

Food Security Group, Nongkynrih, Block Las kein, Distt. West Jaintia Hills, Meghalaya



### INTRODUCTION:

- Composting is natural process of recycling decomposable organic materials into a rich product known as compost. Anything that once living will decompose. There are many methods of composting which are being followed by the farmers for production of compost viz., Vermi-composting, pit composting, backyard composting etc but all these methods take a period of more than two months in decomposition. The Berkeley Composting Method is possibly one of the most efficient ways of composting. It takes only 18 days in decomposing.
- Before the commencement of the project, Farmers of Nongkynrih village were mostly following pit composting and Vermi-composting methods which took more than two months in decomposition, as a result of which very less amount of compost was produced in a cropping season. Thus, the farmers had to depend heavily on the chemical fertilizers for cultivation of their crops which caused health hazards to human and adverse effects on the soil.

### TRAINING & MOTIVATION:

- In this context for sustainable production, minimizing the uses of chemicals fertilizers, improving the soil fertility and minimizing the loss due to crop failure, capacity building/hands on training on Berkeley method of composting was conducted by the BTT Convener of Laskein C&RD Block for the Food Security Group of Nongkynrih village.
- A total of 20 numbers of farmers attended the training programme on Berkeley Compost/ 18 Days Compost Making. Out of which five of them have taken up the Berkeley composting successfully.
- Berkeley method of Composting/18 days composting method is one of the best technologies which was easily adopted and followed by the farmers. At the time of training and demonstration itself, the farmers started accepting the technology.
- From a single pile or cage of size 1cubic meter, majority of the farmers were able to produce around 300-400 kgs

of compost and most of them prepare around 3-5 piles in a single cropping season and as per demand. In this way, their dependency on chemical fertilizers has been reduced drastically, thus improved the soil fertility and in turn increased their crop productivity. Besides, using for own crop cultivation, some farmers were also able to sell the compost to the other farmers which add to their income and generate employment.

- Farmers who* were taken up the Berkeley Composting method successfully:
  - ShriKamailangTyngkan, Nongkynrih
  - Production:350 kgs of compost/pile.
  - No. of Piles:5 piles
  - SmtTherisSyngkon, Nongkynrih
  - Production:450 kgs of compost/pile.
  - No. of Piles:5 piles
  - SmtRibhaSayoo, Nongkynrih
  - Production:450 kgs of compost/pile.
  - No. of Piles:4 piles
  - SmtWiandaBhoi, Nongkynrih
  - Production:350 kgs of compost/pile.
  - No. of Piles:4 piles

### IMPORTANCE TO FARMERS:

- Thus in general, Berkeley Composting/18 days Composting Method was the ideal method of composting for improving the soil fertility, minimizing the use of chemical fertilizers and improving the quality of life of farmers especially small and marginal farmers by increasing their crop productivity in a sustainable manner, minimizing the shortage of compost in cropping season and enhance their farm income and livelihood support for poverty alleviation.
- Soon after intensive training and awareness derive conducted, the mindset of the farmers in the Village as a whole changed and they started to follow and adopt the Berkeley method of composting.



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## VERMICOMPOST: SOURCE OF INCOME AND EMPLOYMENT GENERATION



Smt Darshana Sharma, Vill: Mitali Block: Baghpat Dist: Baghpat, Uttar Pradesh  
Ph no: 9837224900

### INTRODUCTION:

- Smt Darshana Sharma W/o Late Lokeshwar Dayal Sharma is an energetic woman with a progressive mindset and indomitable spirit. She heads her family which comprises of her son, her daughter-in-law and two grandchildren. She formed a Self Help Group named “Omkar Women Self Help Group” in 2002 with 15 likeminded women farmers. Main aim of SHG is production of vermicompost for the promotion of organic farming.

### ACHIEVEMENTS:

- She started open method of vermicomposting in one acre of land now it has extended three times ie in 3 acre of land. Being open method, it runs at peak capacity form Sept-Apr.
- Her group members also started vermi compost production and earned additional income by sale of vermi compost packet in the market.
- She sells vermicompost @ of Rs. 5/kg and 50 kg of bag at the rate of Rs. 250/kg
- She earns a total of Rs. 20 lakh per year by sale of worms and vermicompost incurring an expenditure of Rs 8 lakh/year. Thus, she makes a net profit of Rs. 12 lakh/year. She employs four laborers per day and at peak of working season 10-12 additional laborers are engaged.
- She provides information and guidance to the farmers and help them in many ways. Under her guidance and support about 35 units are running in nearby 12 villages successfully along with promotion of organic farming and sustain their livelihood.

- The produce is sold in Uttar Pradesh, Haryana, Uttarakhand and Jammu and Kashmir.
- Her vermicompost production being of good quality is in great demand in J&K for flower production.
- Many farmers from nearby district like Gaziabad, Gautam Buddh nagar, Meerut and Bulandshahar regularly come to visit her production unit and to understand her business model. As of now 600 farmers have got training and motivation from her enterprise, and are her torch bearers.
- Agriculture, Horticulture, Animal Husbandry departments have used her competence to train other fellow farmers in Kisan Mela, Gosthi etc.
- She had been one of the women speakers in the program “Vaigyaniko ki baat kisano ke sath” for women empowerment organized by the state government. The program was chaired by Hon’ble Agriculture Minister. Using the NIC network these women speakers sitting at NIC, Lucknow, shared their experiences with the women farmers sitting at NIC of the districts. The program lived streamed also for the benefit of other farmer.

### AWARDS AND RECOGNITION:

- She has been awarded so many times at state level as well as district level for her vermicompost production. In 2002 she was awarded by Cropping System Research Project, Modipuram, Merut. In 2003, she was awarded Dr Chaudhary Charan Singh Award at State level by Agriculture Department. In addition she was also honored by “Uttar Pradesh Mahila Munch” in 2013.



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## BEEKEEPING AS A SUCCESSFUL INCOME GENERATING ENTERPRISE



Smt. Lalita Reddy Sipayipeta, 33rd Ward, Tadepalligudem, District : West Godavari, Andhra Pradesh - 534101 Email: lalitareddysatti@gmail.com. Phone No: 8008007616

### INTRODUCTION:

- Smt. S. Lalita Reddy is having 15 acres of land and cultivating paddy, coconut, mango, cashew, maize, groundnut, blackgram, greengram, sugarcane, vegetables, fishery, poultry and dairy.
- She was interested in bee keeping and attended training organized by KVK, Venkataramannagudem during 2016 under RKVY.

### TRAINING & MOTIVATION:

- Income generation is important aspect of agricultural activity. Apiculture is an income generating business under favourable conditions.
- Domestication of honey bees with the species viz., *Apis mellifera* and *Apis cerana indica* are found to be very successful among bee keepers, where abundant forage required for bee activity. But selling and marketing of honey remains a big challenge for apiculturist in the area due to lack of knowledge on honey processing unit in the area.
- Keeping this in mind KVK, Venkataramannagudem initiated vocational training programme on bee keeping with the financial assistance of “Rashtriya Krishi Vikas Yojana” from the year 2015-16. By these trainings trainees became aware of the fact that apiculture is an enterprise of selling honey as well as bye products like collection of pollen, selling bee wax, making comb foundation sheets, royal jelly & Bee venom.

### ACHIEVEMENTS:

- Smt. S. Lalita Reddy after attending training offered by KVK decided to give a try on bee keeping.
- Initially she started with 8 units of *Apis mellifera* in her farm with the help of the KVK. Due to the floral abundance in and around her farm, there was a rapid development in the colonies. At present there are nearly 16 bee hive boxes which can produce honey approximately about 30 kg/month. She is selling honey @ Rs.300 per kg and bee wax @ Rs. 300/kg. On an average she is earning Rs.10500/- as additional benefit per month & net return of Rs. 1,18,400 per year from 16 colonies. Presently she was the lead farmer in the FPO on beekeeping in West Godavari district.

### AWARDS & RECOGNITION:

- She was one of the participant among 43 participants throughout India for the training programme on “Advances in rice production for women farmers” at KSRM, KIIT, Bhubaneswar, Odisha, India during 2018 organised by Department of Biotechnology, Ministry of science & Technology, Government of India and International Rice Research Institute (IRRI), Philippines.
- Among 43 participants 8 women farmers were selected (she was one among the 8 women farmers) from India to attend training programme on “Advances in Rice Production for women farmers” held from 24<sup>th</sup> – 25<sup>th</sup> September at Los Banos, Laguna, Philippines.
- Attended training programme on Advances in rice production for women farmers, KSRM, KIIT, Bhubaneswar, Odisha, India.





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## FLORICULTURE FOR BETTER INCOME AND SUSTAINABLE LIVELIHOOD



Smt. Arenla Sangtam, Village: Helipong, Tuensang town Dist: Tuensang, Nagaland

### INTRODUCTION:

- Smt. Arenla Sangtam, an uneducated elderly woman in her late 50s of Tuensang town started Rose cultivation by setting up a 200 sq. m polyhouse in her village in the year 2016. She started Rose cultivation due to her keen interest in flowers, but without much knowledge on cultivation practices. In the initial years she had to face a lot of problems due to insect, pest and diseases incidence and lack of technical knowhow on application of fertilizers.

### TRAINING AND MOTIVATION:

- She approached KVK Tuensang in search of solution to her problems in Rose garden.
- KVK, Tuensang allotted her trial demonstration to provide her hands on training and skill for Rose gardening.
- Rose being a perennial plant with an average life span of 6-7 years requires more commitment of the grower in day to day operations which includes right type of equipment installed, correct technology and proper management practices with standing inputs and good cultural practices. Her Rose polyhouse at Helipong village was selected for carrying out the trial with well-planned strategy and technologies for ensuring better quality and higher returns to the farmer.
- A trail was undertaken by introduction of new rose cultivars for varietal evaluation namely; V1: Gold Strike, V2: Taj Mahal, V3: Noblesses & V4: Avalanche for assessment in the year 2018-2019 with an aim to study the influence of different rose cultivars on quality aspects and number of cut flower production for better returns to the farmers.
- A spacing of 17 cm x 45 cm was maintained with 500 plants per unit covering 100 plants in each bed (5nos). All the recommended cultural practices was followed along with regular monitoring by Scientists and data at different growth stages and yield parameters were recorded.

### ACHIEVEMENTS:

- But after the intervention of KVK Tuensang in 2018 by providing better quality planting materials, inputs and technical support, she could earn higher income and meet the needs of the family. She states that during 2018 to 2019 her average gross income from the sale of Rose cut flowers per year was Rs. 2, 60,000/-, and she felt the need to explore and venture better into this area to earn more income
- During the trial period, data recorded for the maximum plant height,length of sprouted bud, diameter of flower bud and number of flowers per plant. All the four varieties performed well however the cultivar Avalanche performed better under Tuensang district which recorded maximum values in all the yield attributing traits.
- In 2018-19 after further getting trained from KVK, Tuensang on various topics of flower cultivation, production and value addition, she also started her own nursery for seasonal flowers and potted green plants.
- During leisure time she makes different dry flower products and crafts which are being exhibited and sold during various festivals and celebrations in the district. Customers from other districts like Kohima and Dimapur also order and purchase flowers from her which give her better economic returns. In the current season the income generated from her enterprise are as follows:

Rose cut flower	: Rs. 2,60,000/-
Potted greens	: Rs. 40,000/-
Seasonal flowers	: Rs. 30,000/-
Dry flowers	: Rs. 20,000/-
Total	: Rs. 3,50,000/-



**PERFORMANCE OF ROSE CULTIVARS UNDER PROTECTED CULTIVATION IN MRS SANGTAM 'S POLYHOUSE**

S. No.	Plant height at first flower flush (cm)	Length of the sprouted bud (cm)	Diameter of flower bud (cm)	No of flowers per plant (2-3 yr)
1	V1: Gold Strike	49 cm	3.13 cm	13
2	V2: Taj Mahal	40.15 cm	3.13 cm.	11
3	V3: Noblesses	45.76 cm	2.59 cm	10
4	V4: Avalanche	51.10cm	2.97 cm	15

**IMPORTANCE TO OTHER FARMERS:**

- Her innovativeness and eagerness to try technology based cultivation has influenced many homemakers to divert hobby into a profession. With her initiative and leading role, and technical guidance from KVK, Tuensang an organisation named "Flower Grower's Society, Tuensang" has been started in the year 2019 and now they
- have been actively involved in production and sales of flowers throughout the district.
- Formation of Flower Growers Society Tuensang and exhibition of floral products during festivals and exhibition
- Follow up training programmes and method demonstrations for SHGs



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## NATURAL HOMEMADE SOAP AND PAPER BAG MAKING

VAU Self Help Group, Bilkhawthlir Dawr Veng, District: Kolasib, State Mizoram



### INTRODUCTION:

- VAU SHG, comprises of 6 female members below sixty (60) years of age, which was formed on 11<sup>th</sup> July, 2014. The group members are all house wives working hard and very enthusiastic in learning new things.
- Their only source of income is from making of nutrition kitchen gardening, rearing of pigs and hens.

### TRAINING & MOTIVATION:

- Knowing laborious nature and enthusiasm of these women, the KVK Kolasib trained and worked with them from 2016 on Soap making process.
- Then, they started the “melt and pour” professional method of making soap from 2019, this method surprisingly double their income, as the soap were much more attractive and were made from different ingredients such as , Calamine, Charcoal, Honey, Rice powder, Besan, Tea Tree, Jasmine, Turmeric, Goats milk, Aloe Vera, etc. They had participated in SARAS Fair on December, 2019 (one of the biggest fair organized for farmers and other stakeholders in Mizoram). Among the many items displayed, their Natural Soap was highly praised by many dignitaries and others which were all sold out on the first day of the fair itself. As their enthusiasm increased they started expanding so are their items expanding.
- As a result, they are now engaged in making Paper bags

from July 2019 and sold within the district which directly increases their income to a significant extend.

- Apart from paper bag and soap making, KVK Kolasib has been training them in baking, value addition and sweets making etc.
- The demand for their natural soaps and paper bags have increased to a new height especially, with the paper bags as people are aware of the how plastics can hamper the environment.
- With the selling of natural soap they could earn Rs. 46,000 from the selling paper bag they could easily fetched Rs. 10,000 per month.
- As a result of their tireless effort and contributions they have received many awards at different levels including one national award. The media had also recognized them by airing their interviews.

### INFLUENCE ON THE OTHER FARMERS:

- They are invited to participate in the District & State exhibition fairs and workshops.
- Since the SHG members are actively engaged in making different items of demand of the people in the district and now to a larger section of communities out of the district, their income also increasing as days and years pass by. VAU SHG has significantly motivated other self help groups in Mizoram.



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## SUCCESS STORIES OF ATMA (COMMODITY INTEREST GROUPS)

E.Latha W/o Ilango, Nallathur 9626368733, S.Mariyammal W/o Selvaraj, Nallathur 9159693581, M. Valli W/o Murugaiyapillai, Nallathur 948925817, District : Karaikal



### INTRODUCTION:

- Roja ATMA group is a women CIG consisting of 16 members under the Commodity Interest Group “Organic Farming”. Initially the group was formed to cultivate and promote organic farming at their own land. Later they imbibed interest in vermicomposting as there was real dearth of enough organic matter around the locality. So they decided to produce VC on commercial basis.
- Though they are mainly producing Vermicompost, now they are additionally producing Panchakavya, Amirtha Karaisal & Five leaf extracts also.

### TRAINING & MOTIVATION:

- ATMA Group aimed at changing the attitude of the group members. To transform them to become an entrepreneur in order to improve the income and status of the farming community through group approach.
- Focusing on this as a part of ATMA farmer oriented activity, Training on vermicompost production was given to Roja ATMA group of Nallathur at Centre for Indian Knowledge System (CIKS), Sirkali on 19.07.2014.
- As a result, the group found that vermicomposting is a profitable venture, which does not require much attention & care and it can be an additional source of income with locally available raw materials without spending much time and investment.
- Followed by repeated trainings, Demonstrations and exposure visits they have started to produce additionally the organic inputs such as Panchakavya, Amirtha Karaisal & Five leaf extracts.
- ATMA Karaikal provided Rs.10,000/- (Rupees Ten

thousand) as Seed money. Apart from this they pooled another Rs.40,000/- (Rupees Forty thousand)

- In recent days, farmers of the district were gaining interest in Organic farming whereas the availability of organic inputs is the major problem for the farmers. To cater the present day need of the farmers and also as a step to recycle & increase the value of farm waste, vermicompost production was largely promoted by ATMA, Karaikal.
- As a result of the training programme they started the low cost vermicompost unit. The low cost vermicompost unit is made up of thatched roof and cement flooring. Later the CIG also started producing other organic inputs such as Panchakavya, Amirthakaraisal, 5 Leaf extracts and also selling value added products such as rice flour, ragi flour, pickle, snacks made up of rice flour.
- This became an additional source of income for their CIGs. This vermicompost production unit became a source of input for farmers practising organic farming & also used for nursery development.

### MARKETING:

- Usually sold at their village itself. Further the group also sell their products through agricultural exhibitions, public events, etc

### ECONOMIC IMPACT:

- Vermicompost -6000 Kg@ Rs.10/Kg
- Panchakavya – 2500 litre @ Rs.80/litre
- Amirthakaraisal- 900 litre @ Rs.20/litre
- Five leaf extract- 600 litre @ Rs.20/litre



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## GROUP MARKETING FOR REMUNERATIVE PRICE TO SMALL GROWERS

Chiruplang Commodity Interest Group Village : Mookyndur, Block : Thadlaskein Development, District : West Jaintia Hills, State : Meghalaya



### INTRODUCTION:

- CHIRUPLANG COMMODITY INTEREST GROUP is a group formed by the following 10 members:
- Leader : Smt. Eris Suting, Asstt. Leader : Smt. Debora Suting, Smt. Silomi Suting, Shri. Phiwel Mukhim, Smt. Rebeka Suting, Smt. Darihun Suting, Shri. Kwestarlin Nongseij, Shri. Pynshngain Kharsati, Shri. Maidong Suting, Smt. Blon Suting.
- The location of Group is 16 km from district headquarter. The group have one collection centre for tomato and collect from all the farmers who produce tomato from their own village Mookyndur and nearby villages. All the members grow tomato crops and then sell in the collection centre only. In the peak season i.e from the month of June till December the collection is 4-5 tons per day and if it is in the starting month and before the end of the season the collection is 1-2 tons per day.
- The Group sells the tomato to the nearby states like Dharmanagar District in Tripura and Nilam Bazar in Assam. Regarding the price the group leader always contact the market price in the markets in Tripura and Assam. The market rate ranges from Rs.12/- to 22/- per kg.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- The group in the beginning starts selling tomato only 2 quintals to 1 MT per day but nowadays the selling of tomato is increasing to 4-5 tons per day. In the off season the group collect beans and other vegetables and sells in the local market at Jowai and sometimes outside State.
- In one year the group's earning increased to Rs. 30-40 lakhs from selling tomato and other vegetable.

### IMPORTANCE TO FARMERS:

- Through this collection centre the farmers are very happy because they don't have to go to the town for selling their vegetables, but directly from the field to the collection centre. They don't have to spend for transportation etc. It is very helpful for the farmers.
- At the same time during the peak season only the group members can not work in the collection centre so they need to engage extra people to help them, in this way they can help poor farmers to earn as daily labourer in the collection centre.



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## ADDITIONAL INCOME FROM VALUE ADDITION OF BANANA



Bolkinggre Women's Commodity Interest Group, Block Amd Samanda C.D. Block, District East Garo Hills, Meghalaya

### INTRODUCTION:

- Banana is one of the major Horticulture crops which are grown extensively by the farmers in the Garo Hills District of Meghalaya and East Garo Hills due to climatic condition and suitable soil texture. Organic Bananas are grown in these areas.
- Nendran variety of banana, locally known as Bitaguri or Songdu is the most popular variety among the different varieties and have high demand because of good quality and size, especially for preparation of chips. Moreover, it produces throughout the year, so the local people go for preparation of Banana Chips throughout the year.

### TRAINING:

- District Agriculture Officer with P.D. ATMA visited Bolkinggre Women's Community Interest Group No.4, with 18 members.
- The Progressive farmers appointed Smt. Bailine A. Sangma, to be the President of this group. Smt. Bailini Sangma, of the village Bolkinggre, Williamnagar in East Garo Hills is an active farmer having total land of 1.5 ha.
- She has many enterprises like banana, tapioca, Jackfruits, pineapple, poultry, and paddy. She started the food processing work since 2012 with squash and pickles making in the area.
- The group leader Smt. Bailine A. Sangma is trained in chips making in District Commerce and Industry centre,

Williamnagar, East Garo Hills district. She also attended pickle and Chips making training in Kottayam, Kerala in South India. The P.D ATMA and Agriculture Officer motivated the group to undertake food processing in larger scale. The group at present has complete set of materials for undertaking such an activity i.e, Pickle making and Banana chips making.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- At present, the group is making Banana chips and pickles out of locally available raw materials such as Carombola, Jackfruits, pineapple, and Aonla.
- The product is sold in local market and around Williamnagar and other districts too. At present the group is earning Rs. 20,000/- to 25,000(Rupees Twenty to twenty five thousand) per Week and monthly earning is approximately Rs.80,000/- 1,00,000.00 (Rupees Eighty thousand to one lakh) only by these products.
- The income is divided among the member of the group and 5 % is kept in the fund for emergency
- Fig.1 Group Trained members Fig.2 Demonstrating Banana Chips making

### IMPORTANCE TO FARMERS:

- The activities of the group is a successful example to the farmers of the locality. It is expected that other groups may also embark upon such enterprise.



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## SUCCESS OF COMMODITY INTEREST GROUP IN MARINE FISH PRODUCTS

President: Murugesan S/o Pazhanisamy -9843638479, Secretary: Yoganayagi W/o Mohan - 9092166768, Treasurer: Geetha D/o Selvaraj -8098479137



### INTRODUCTION:

- Sri Renugadevi ATMA group is one of the well functioning ATMA CIG consisting of 17 members under the commodity interest group “Value added products-Marine” at Karaikalmedu Village of Karaikal District.

### TRAINING & MOTIVATION:

- ATMA programmes are aimed at transform the group of farmers/Commodity Interest Groups (CIGs) to become an entrepreneur in order to enhance the income and status of the farming community through group approach.
- Accordingly, ATMA Karaikal has formed the group namely Sri Renugadevi ATMA group in marine fish farming with a motive to develop the farmers into entrepreneur in the field of Post Harvest Technology & Value Addition at Karaikalmedu of Karaikal district.
- In view of the above, ATMA Karaikal organised an inter-State training on “Fish processing technologies” for four days at Tamil Nadu Dr. Jayalalitha Fisheries University (TNJFU), Nagapattinam from 11<sup>th</sup> June 2019 to 14<sup>th</sup> June 2019 to the CIGs by covering the following topics.
- Scope of fish processing and production of value added fish products.

- Importance of Hygienic handling of fishes.
- Marketing strategies for production of value added fish products.
- Hands on Training on fish storable products, baked products, dry fish products.

### ACHIEVEMENTS:

- They started with Rs. 25,000 (including Rs.10,000 given by ATMA, Karaikal as seed money).
- This become an additional source of income for their CIGs and ensured sharing their hygienic products to people.
- As an impact, the group have started in the preparation of prawn pickles in a rented house and taking orders for parties/functions to supply sea foods/lunch/eatables.
- Hygienic Pickle preparation and other eatables have attracted people.
- At present their marketing process is easy. Usually sell the pickles at their village itself and taking orders for parties/functions to supply lunch/sea foods/eatables at the rates - Prawn pickle @ Rs.100/ 100 g packet. Lunch/sea foods/eatables @ Rs. 150/head.



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## A FRUITFUL ECONOMIC WOMAN ENTREPRENEUR



Smt. Marla Village: Longsa, Block: Ongpangkong District: Mokokchung, State: Nagaland

### INTRODUCTION:

- Farmers of the hilly districts in Nagaland have been producing a variety of indigenous processed products such as Naga King chilli pickle, green chili pickle, ginger and bamboo shoot pickle to name a few.
- While it is difficult for small scale agro-enterprise in the poor infrastructure, rugged terrains North Eastern hill regions to compete with the prices and volume of production in plains and urban areas, nevertheless approach to sustain, trade and sell quality products with more remunerative price is really a success.
- In such a scenario, Mrs. Marla, an ambitious woman farmer from Longsa village under Ongpangkong North ATMA block has overcome the barriers to become one of the first successful women agripreneur of her block.

### TRAINING & MOTIVATION:

- Smt. Marla's story is truly remarkable in the pickle making business which she launched during the year 2011 after attending a training on Food processing, organized by the District Horticulture Office at Mokokchung.
- Equipped with her first hand knowledge on pickle making as a business her unwavering interest and sheer determination she started with an initial capital of only Rs. 18,360/-.

### ACHIEVEMENTS:

- Mrs. Marla is the proud owner of 'Longsa Green Chili

Pickle' a brand registered under the Food Safety and Standards Authority of India(FSSAI), managed through her own processing unit constructed in an area of an acre of land in her native village of Longsa.

- Her finished product passed the quality, taste and packaging tests and was accepted deliciously by her customers which enabled her to increase her supply base.
- Mrs. Marla employs only local laborers, which generates employment opportunities for the local people in her village that assures her regular labour supply. Her innovative mind motivated her to make her own vinegar and cinnamon which are essential ingredients in pickle making.
- She tries to update her knowledge through trainings on packaging of her products from the District Horticulture Office which helps her stay ahead of the game and allows her to export the products within and outside the state.
- Her products are in demand throughout the state and has found customers in cities of Guwahati and Delhi.
- Her future plan is to export her products to Israel under the brand name 'Longsa green chili pickle'.
- A glimpse of her income is evident from the table below:

### AWARDS/RECOGNITIONS:

- Mrs. Marla is the recipient of the District Level Best Individual Farmer Award

PARTICULARS	SALE VALUE	PRODUCTION/YEAR	GROSS INCOME(Rs)	NET INCOME(Rs)
Green chili pickle	120/packet	4000 packets	3,00,000	1,61,750
Naga king chili	120/packet	4000 packets	3,91,000	1,76,040
Ginger pickle	120/packet	250 packets	20,000	5,175
Bamboo shoot pickle	120/packet	500 packets	60,000	16,890





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## SUCCESSFUL WOMAN ENTREPRENEUR IN PAPAD MAKING

Smt. Naorem Arundayarti Devi, Vill: Oinam Awang Leikai, District: Bishnupur, Manipur



### INTRODUCTION:

- Smt. Naorem Arundayanti Devi (B.Sc), who belongs to Oinam Awang Leikai Village in Bishnupur district, is a successful Entrepreneur, who has set an example for the women of Manipur.
- Her first venture was as a fruit vendor at Kwairamband Keithel at Imphal.
- She left her vending business in 2012 to start her new venture as an Entrepreneur in the field of food processing without any formal training or skill.
- She started her production activities by producing pickle & candy with locally available raw materials. She sold the products in the local retailers and friend circle.

### TRAINING & MOTIVATION:

- However, the income was not up to her satisfaction and she approached KVK, Bishnupur in the year 2017, seeking knowhow and guidance for improving her food processing unit
- In order to enhance the productivity and acceptability of her products, it was felt that she needs some trainings on food processing. She was inducted in the 3 days on-campus training of preparation of papad, conducted at KVK, Bishnupur in June 2018.
- Papad, which is primarily a snack item, is very popular in Manipur and it's eaten as a snack or along with meals also.
- Soon after the training she started production of value added papad with added natural herbs (viz. Chinese chives, Allium hookeri, Coriander, Mint etc.).
- She was given further practical exposures in training activities held at Seva Manipur (NGO) in May 2019 (Sponsored by Seva Manipur) and March 2020 (Sponsored by NABARD) which was technically conducted by Subject Matter Specialist (SMS), Home Science, Krishi Vigyan Kendra (KVK), Bishnupur.
- In both the training programs she was given first-hand experience in demonstrating the preparation of papad, Soya milk/paneer and black rice products.

### ACHIEVEMENTS :

- After the introduction of her products to trainees and select retailers, her flavoured Papad has gained popularity and it is now known as 'Green Papad' also.
- The demand has also picked up and she had already increased the production by inducting more manpower.
- Meanwhile, in recognition of her performance, she got selected for Start-up Manipur (Idea stage) in 2019 and got financial aid of Rs 3.00 lakhs (as subsidy).
- Her Green Papad is also sold at Organic outlet of MOMA (Manipur Organic Mission Agency, a unit of Manipur government).
- During the present lockdown, due to corona virus it is selling like hot cakes. The demand has increased manifold and she is working overtime to meet the demand.
- Prior to the KVK Bishnupur intervention, her income was very less. But now after the intervention and coupled with her hard work and sincerity, her income has increased manifold.
- Over the last few months, she is earning a net income of about Rs. 30,000/- (Rupees Thirty thousand) per month which translate into Rs 3.6 lakhs per annum approximately.
- She is a successful Woman Entrepreneur and a perfect example of women empowerment.

### IMPACT ON OTHER FARMERS:

- During the two trainings she got new contacts (Self-Help Groups) among the trainees, from Bishnupur and Imphal west districts, who readily accepted to take up the profession of papad making. And they have started making papad at household level by taking raw materials from her.

### AWARDS AND RECOGNITION:

- In recognition of her works she was honoured as farm woman by KVK Bishnupur, in the field of food processing under the programme Mahila Kishan Divas held on 15<sup>th</sup> October 2017.



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## VALUE ADDITION FOR ECONOMIC EMPOWERMENT



Smt. Tarawati W/o Shri Prahalad Saini, Block: Hasangaj, District: Unnao, State: Uttar Pradesh

### INTRODUCTION:

- Smt. Tarawati was a simple housewife and farmwoman till 2008. She was engaged in household work, animal husbandry and in agricultural activity.
- Her family have only 0.1 hectare land for cultivation of crops including Mango Orchards. About 20-25% mango of this area is lost due to 4-5 wind storms during mango season which results great loss to mango growers.
- Whatever were left and ripened was sold to villagers @ Rs. 7-9 per kg and her annual income from the mango orchard was only Rs. 3000- 4000.

### TRAINING & MOTIVATION:

- Smt. Tarawati came to Krishi Vigyan Kendra (KVK) & District Agriculture Department, for technical guidance with her problem and enthusiasm to do something for betterment of her family and attended few training programmes.
- In the year 2009 she was selected as the partner women farmer in the project entitled “Empowerment of rural women through value addition of Mango fruit” run by KVK and sponsored by Department of Bio Technology, New Delhi.

### ACHIEVEMENTS:

- She started value addition of Mango from her own Orchard
- Due to resource poor and lack of availability of land with her, she is utilizing processing, packing and labelling facility of KVK, Unnao with payment of nominal institutional charges.
- Now after 09 years of her intervention she and her family are earning Rs. 60,000.00 to 65,000.00 per annum as a profit and living their life happily. Her products include mango pickle, powder and slices.
- She prepares pickles and powder according to the demand of market. Her husband Mr Prahalad Saini is actively engaged in marketing of the products as well as processing.

- Products being prepared by the entrepreneur were packed in Pet bottles and jars of 250gm, 500gm, 1.0kg and 5.0kg packing size, according to the demand and supply and were sealed with aluminium foil to prevent leakage and maintain quality of the product.
- She has 5 members in her family including her husband, and 3 children. All are supporting and are engaged in processing and marketing of the products according to their efficiency.
- So the entrepreneur does not need any extra manpower outside the family. This way, it has emerged as the family based entrepreneurial venture.
- Labelling of the product was done with the Support of the KVK indicating ingredients used nutritional facts, Shelf life and other important information.
- She processed about 37 quintals of raw mangoes for preparing pickle, mango slices and powder in a season. She starts the works of mango products preparation from the mid of April and works up to mid of July.

### ECONOMICS OF SMT. TARAWATI'S ENTERPRISE:

Particulars	Mango Pickle	Mango slices	Mango Powder
Cost of Production	Rs. 48/kg	Rs. 50/kg	Rs. 100/kg
Cost of Selling	Rs. 85/kg	Rs. 110/kg	Rs. 180/kg
Profit : Time ratio	4000 – 4500 per month	500-600 per month	350-400 per month
Cost Benefit Ratio	1:1.77	1:2.2	1:1.8
Net profit (Rs/year)	55500.00	6000.00	4800.00

### IMPORTANCE TO OTHER FARMERS:

- Smt. Tarawati's success is motivating other farm women of the village and presently 8 more women of the village are engaged in processing activities.

### AWARD & RECOGNITION :

- Smt. Tarawati has been nominated as one of the contestant for Best Farm Women Award being organized by Doordarshan Kisan Under Krishi Reality Show.



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## VALUE ADDITION AND MARKETING OF MINOR MILLETS



Smt Saroja N Patel, Vill: Nittur PO: Nittur Block: Harapanhalli, Dist: Davanagere, Karnataka PIN: 577530 Ph No: 9900769719

### INTRODUCTION:

- Smt. Saroja N. Patil from Nittur village of Davanagere district has successfully taken up value addition and marketing of minor millets. Educated upto pre-university, owns 11 ha land at Nittur, Hariharatq., Davanagere Dist. The family cultivates rice (8 ha), finger millet (1.6 ha), GPU-28 variety, Coconut (1.6 ha) and arecanut (0.6 ha). Livestock comprises of cows (7 nos), buffalo (6 nos) and poultry unit (12000 birds). The farm is mechanized with Tractor-1, Fodder Cutter-1, Conoweeder-3, Flour mill for preparation of minor millet malt.
- Smt. Saroja N. Patil's family has been growing organic finger millet (1-2 ha) for many years. The normal process is to sell the produce immediately after harvest. The profit margins in this practice are less considering increased cost of production in Finger millet especially harvesting and threshing. Smt. Saroja, being a member of Scientific Advisory Committee of Krishi Vigyan Kendra (KVK) underwent training on value addition. Krishi Vigyan Kendra also provided the initial opportunities to sell the value-added products in 'Saturday Organic Bazaar' at KVK campus and in other exhibitions.

### ACHIEVEMENTS:

- Established mini flour mill for preparation of malt and started value addition process during 2014-15.
- Her products include organically produced Malt, Energy mix, Ginger Chetney, Pickles, Minor millet Roti, Dry fruits laddu, Millet snacks (Pakoda), Finger millet Vermicelli which are sold through organic institutions like 'SahajaSamrudha, Benglauru, Saturday organic Bazaar in ICAR-Taralabalu Krishi Vigyan Kendra, Davanagere and in Krishi melas and through online trading.
- All the products are packed with brand name of 'Thadvanam' with FASSI registration.
- The value addition unit by Smt. Saroja N. Patil has earned net profit of Rs. 1.49 lakh during 2019-20.
- A glimpse of the economic returns of the unit:

Year	Cost (Rs)	Returns (Rs)
2014-15	1,90,000	2,15,000
2015-16	2,05,000	2,45,000
2016-17	2,57,000	3,48,000
2017-18	2,80,000	4,18,000
2018-19	3,10,570	4,44,500
2019-20	3,29,800	4,78,700

### AWARDS AND RECOGNITION:

- The achievements in farming and value addition brought her many prestigious awards notable among them include:
- 'Environment Award' by Government of Karnataka during 2011
- 'Krishi Pandit' award by Government of Karnataka in 2008-09 and
- 'Mahindra Samruddhi Agri Award' by Mahindra and Mahindra group in 2013. She also participated in live-in programme by DD-Chandana (Kannada) and farm women entrepreneur enclave by DD-Kisan (New Delhi).
- Further, Smt. Saroja N. Patil is invited regularly by Krishi Vigyan Kendra and Agriculture Department as resource person during trainings and extension programmes.

### IMPORTANCE TO OTHER FARMERS:

- Smt. Saroja N. Patil who hails from rural background utilized every available mass media for gaining knowledge and marketing of value added products. She subscribes to daily newspapers and magazines to increase her knowledge base and current information.
- Apart from regular listener to radio, she also has given interview through AIR-Bhadravati and AIR-Chitradurga.
- She suggests and appeals to women to come forward to acquire knowledge, information and skill to excel in various aspects of farming sector according to one's choice and ability.



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## SUCCESS STORY OF VALUE ADDED PRODUCTS OF RAGI



Smt. Rajeshwari, Vill: Haradanahalli, Dist: Chamarajanagar, Karnataka

### INTRODUCTION:

- Smt. Rajeshwari aged about 40 years resides at Haradanahalli village of Chamarajanagar taluk educated upto primary school. She is a single parent with three children and has no lands.
- She used to stitch cloth and worked as farm labour in other farmers field to earn daily bread. Her income could hardly meet the monthly expenses of the family.

### TRAINING & MOTIVATION:

- Once through Dept. of Women & Child Welfare, she attended the training programme on Income generating activities for livelihood of land less laborers at Krishi Vigyan Kendra (KVK), Chamarajanagar in the year 2010. She was very much fascinated by the information given during training.
- Then she started approaching KVK & District Agriculture Department for information and attended hands on trainings conducted on value added products of different agriculture produce.
- She already had some skills of preparing rice papads. So, she got trained her to prepare ragi value added products like pappad, malt, hurihittu and chakkali.

### ACHIEVEMENTS:

- In the beginning she started to prepare malt and ragi papad for home consumption then distributed among neighbours and relatives and got good responses from them. It motivated and inspired Smt. Rajeshwari to take

up it as an enterprise.

- KVK Chamarajanagar enrolled her in the entrepreneurship development programme on value addition to ragi and market linkage during the year 2011-12 and supported her with few critical inputs to start the enterprise and guided her regarding the scientific packaging and labeling and helped to get FSSAI License.
- She got good response from the consumers and now she is preparing and selling different ragi products like pappad, malt and mixture. She sells pappad @ Rs. 0.80/pappad & malt @ Rs. 200/kg and mixture @ Rs. 225/kg and earns good monthly income about Rs. 15,000-20,000/month.
- She sells nearly 5000 pappads, 15-20 kg malt, and 10 kg mixture/month and she has given employment to two other women also.

### AWARDS AND RECOGNITION:

- Now she participates as a resource person in KVK & agriculture department training programme conducted for women.
- She got her daughters married done and her son is helping her in marketing.

### IMPACT ON OTHER FARMERS/ STAKEHOLDERS:

- Now she is leading a happy and satisfied life because of her efforts and dedication to achieve this empowerment.
- Role model for other poor women who have imbibed inspiration from her to take small activity to earn extra income.



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## SOYBEAN PROCESSING-A SUITABLE REMUNERATIVE ENTERPRISE



Smt.Suman Sharma, Vill: Balita, Tehsil: Ladpura, Dist: Kota, Rajasthan,  
Contact No.9460853746

### INTRODUCTION:

- Smt. Suman Sharma resides in village Balita, with her husband Sh. Akhil Sharma and other family members. Recently, she is residing at Nayapura, Kota, Rajasthan.
- She is a graduate and having joint family of eight members, including her two children and in laws.Smt. Suman Sharma belongs to a lower middle-class farm family.
- She always wanted to find a better way to earn income to become self-dependent and her dreams come true with establishment of a small Soya Processing Unit in the year 2014.

### TRAINING AND MOTIVATION:

- She participated in one-month training programme on food processing & value addition of regional crops in the year 2014 organized at Krishi Vigyan Kendra, Kota. During training, she learned about processing techniques, value addition, packaging, marketing, labelling, cost calculation of products.
- After completion of training, she engaged herself in experimental work for 2-3 months for standardization of her processed products of soybean & aonla, finally established her own Small Unit of Soybean Processed products viz. Soybean *Laddu*, Nuts, Flour etc.

### ACHIEVEMENTS:

- At the time of starting of the venture of Soybean processing Smt. Suman Sharma was having her own saving of Rs. 2 lakhs, which become her capital investment, a very crucial resource for her dare and adventure. She used roof top area of her house converting to it hall of 20'x 15' by covering with tin shed to install the processing machinery and working space.
- She constituted an NGO of 100 women entrepreneurs named as “*Siddi Vinayak*” and a Self-Help Group “*RISHI-TANVT*” for food processing entrepreneurship development.
- She procured ‘FSSAI’ number and ‘Shop Act Number’, to become a registered entrepreneur.
- She formulated group sale processed products on order basis as home delivery and also exhibited products in different melas and now she is earning about Rs.40, 000

per month.

- As master trainer she attended more than 75 training programmes and trained more than 1000 women and earned approximately Rs. 1-1.5 Lakhs in a year.
- She has also demonstrated her products in Organic festival Delhi (organised by Ministry of Food Processing Industry) and earned more than Rs.30,000/-. She also got order to supply 200 quintal amla candy @ Rs.300kg, recently.
- The Economics of her entrepreneurial venture of processed products of soybean (Laddu, Nuts, Flour etc.) is briefed here under-

Establishment Expenditure (Rs.)	2, 00, 000.00
Annual Soya Product Production (Qtl)	12
Average Sale Price of Soya Products (Rs. per kg)	120-300
Annual income (Rs.)	10,00,000.00
Annual expenditure (Rs.)	4,00,000.00
Annual net income (Rs.)	5,00,000 to 6,00,000

### CONTRIBUTING FACTORS:

- Smt. Suman Sharma is self-confident, well educated, having very good communicative skills, and have basic entrepreneurial skills of dealing with wide range of people.

### AWARDS/RECOGNITION:

- She got appreciation award as women entrepreneur by former Agriculture Minister Sh. Prabhu Lal Saini; Mayor of Kota; and FEGC, Jaipur for her achievements.
- She has been invited to share her success with masses on AIR,Kota and DD, Kisan channel.

### IMPORTANCE FOR OTHER FARMERS:

- Smt. Suman Sharma is working as a master trainer and gave her services in more than 75 training programmes organized by *Jan Shikshan Sansthan*, *Prodh Shiksha*, *CFCL*, *Gadhean* and *KVK*, Kota and trained more than 1000 women.



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## MUSHROOM PROCESSING AND VALUE ADDITION



Smt. Nidhi Katare, Address - Nirala Nagar, Singhpur Road, Gwalior (M.P.)

### INTORUDCTION:

- Smt. Nidhi Katare is from Nirala Nagar, Singhpur Road, Gwalior (Madhya Pradesh). She is a successful mushroom entrepreneur presently guiding farmers for mushroom cultivation and has 75 farmers from M. P. and other states who are regular client of mushroom spawn and her registered a company with her husband.

### TRAINING:

- She participated in training on “Mushroom Production” organized by Krishi Vigyan Kendra (KVK) Gwalior.
- Skill development through training on scientific spawn production & exposure visit to successful enterprise.

### ACHIEVEMENTS:

- Started spawn production of oyster Mushroom (*Pleurotus florida*) in 2015. The Directorate of Mushroom Research, Solan (Himachal Pradesh) had provided pure culture.
- She had set up a small spawn production unit in 1500 sq. ft. rented area in Gwalior. She has a regular clientele 75 farmers from the Madhya Pradesh and outside. The farmers from Gwalior, Morena, Bhind, Datia, Indore, Khargone, Bhopal, Dhar, Anoopur (Madhya Pradesh), Jaipur and Dholpur (Rajasthan), Mevat (Haryana), Ambikapur & Vishrampur (Chhattisgarh)
- She presently produces 9000 kg spawn of *P. florida* and *P. sajor-caju* in a year. She has registered a company Natural Bio impact and Research Private Limited.

### IMPORTANCE FOR FARMERS:

- **Potential:** Smt. Nidhi Katare’s positive attitude has proven that there is a direct linkage between entrepreneurship & acceptance level, horizontal spread of innovation and number of farmer adopting a technology.
- A regular client of 75 farmers from the Madhya Pradesh and outside receiving mushroom spawn. The farmers from Gwalior, Morena, Bhind, Datia, Indore, Khargone, Bhopal, Dhar, Anoopur (Madhya Pradesh), Jaipur and Dholpur (Rajasthan), Mevat (Haryana), Ambikapur, Vishrampur (Chhattisgarh) are getting quality spawn.
- Presently producing 9000 kg spawn of *P. florida* and *P. sajor-caju* in a year.
- Training to 110 farmers and rural youth from M.P., Chhattisgarh and Rajasthan has been provided.
- Various organizations invite for delivering lectures as an agri-entrepreneur.

### AWARDS & RECOGNITION:

- Success story telecast by DD Kisan Channel on 30/03/2017.
- Success story published in ICAR-Kheti Magazine. (January-2018 PP:54) and also covered from regional newspapers from time to time.
- **Awards State level:** Appreciation Certification by KVK, Gwalior on Mahila Kisan diwas on Oct.15,2018, Prize on various category of mushroom organized by RVSKVV, Gwalior and Directorate of Horticulture and Food Processing ,Bhopal on Feb 22-23,2018



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## WEALTH AND HEALTH FROM ORGANIC WASTE

Smt. Girija Prasad, Vill: Evoor, Dist: Alappuzha, Kerala



### INTRODUCTION:

- Smt. Girija Prasad is a diploma holder in agriculture hailing from Evoor village of Cheppad Panchayath, Alappuzha district. She belongs to a financially poor family consisting of four members having a land holding of 15 cents only.
- She earned her livelihood by conducting tuition classes which fetched her Rs.2500/- – 3000/- per month. Her physically challenged husband earns daily wages through miscellaneous occupation.

### TRAINING & MOTIVATION:

- Being a regular viewer of agriculture related programmes in Doordarshan and reader of agricultural magazines she happened to see a television programme on mushroom success story which inspired her to initiate its cultivation.
- Meanwhile one of her relatives, who attended the training on mushroom production in the Krishi Vigyan Kendra (KVK), provided a packet of mushroom to her, which she cultivated carefully.
- She attended the training on Oyster mushroom cultivation at KVK during 2008. Then she started mushroom cultivation within the house by using the spawn purchased from the KVK.
- Inspired by the initial success, with the enduring support from her husband she constructed a low cost mushroom production unit attached to her house and started producing mushroom regularly. She started collecting paddy straw from nearby paddy fields free of cost, which made her vocation profitable.

### ACHIEVEMENTS:

- She expanded her venture by attending several programmes related to mushroom conducted by the KVK and District Agriculture Department. She was included in exposure visits to many mushroom units conducted as part of trainings.
- Based on the experience and interactions with other entrepreneurs through KVK networking, she marketed the produce directly to vegetarian hotels, schools and

offices.

- Increased demand from hoteliers pushed her to construct one more low cost shed by the side of her house, thus establishing the Sneha Mushroom unit. Continuous support from the KVK through telephonic helpline services and regular visits to her unit, could enable her to produce up to a tonne of fresh produce annually.
- During summer months, owing to the reduction in yield of oyster mushroom, she could not meet the demand from consumers.
- At this juncture, KVK selected her as a partner of OFT programme on milky mushroom *Calocyb agambosa*. The yield from this mushroom was more during summer months and it was free from pests and diseases.
- The positive and encouraging results made her to integrate oyster mushroom with milky mushroom so that she could get a sustainable income throughout the year.
- KVK provided the vermicomposting technology by which she could recycle the spent substrate into vermicompost to earn an additional income from the waste in addition to own use for vegetable cultivation.
- She earn Rs.15,000/- – 20,000/- per month through a production of 0.5 – 1 ton of mushroom per year and selling @ Rs. 350/kg
- Thus, her Average income from the unit was Rs.3.6 lakhs/ yr with a production cost of Rs.1.44 lakhs.

### IMPACT ON OTHER FARMERS/ STAKEHOLDERS:

- By this time, as an experienced master farmer, she started offering hands-on-training to farm women groups, and youths including college and school students helping in disseminating the technology.
- She has set an ideal example that with as small as 15 cents land holding she could earn high income and nutritional benefits through the daily consumption and indirect income through organic production of vegetables using the composted spent substrate. Many resource poor women has come up with small mushroom production units in the area.



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## MUSHROOM CULTIVATION CONFERRED RECOGNITION



Smt Pratibha Jha Village: Mirzapur Hansi, PO: Jagannathpur, Block: Biraul, District: Darbhanga, Bihar- 848209

### INTRODUCTION:

- Smt Pratibha Jha is a progressive lady with a zeal to do something substantial to benefit her family economically and her society. She studied up to 12<sup>th</sup> class before her marriage. Her family possess 2 ha land which is irrigated. Her husband is in agriculture and dairying, fisheries, vermicompost production. He availed training in fisheries and vermicomposting at Bihar Agricultural University, Bhagalpur through ATMA, Darbhanga.

### TRAINING AND MOTIVATION:

- As a house maker in an agriculturist family she used to actively help her husband in all her agricultural activities. She was inclined towards home-based economic activity and decided to pursue mushroom cultivation.
- Through the ATMA, Darbhanga she availed a 2-3 days training programme at Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur on Mushroom and spawn production.
- She was provided opportunity for exposure visits and other training programmes to Agricultural Universities, KVK and Kishan melas by ATMA which increased her confidence and knowledge.

### ACHIEVEMENTS:

- With knowledge and information gathered, she started mushroom production at a small scale on 2<sup>nd</sup> Oct 2016 with an initial investment of Rs 300/- (Rupees Three Hundred only).
- Now she is producing three types of mushroom- oysters, button and milky mushroom throughout the year and she she engages 2-3 laborers per day in her unit which is a great help to daily laborers.
- She has also learnt to prepare as many as 31 mushroom recipes. She makes Aduki, Papad, Mushroom-Sattu, Mushroom-Besan, Peda, Gulab Jamun, Jalebi blending with mushroom.

- She puts around 1000 bags of mushroom per batch and harvests around 10/- kgs per day and sells at the rate of Rupees 100-150 per kg. She also produces mushroom spawn for herself and for sale.
- She sells all the produce from home in retail mode. She also goes for drying in case of excess production and less sale.
- Now, her earning from mushroom is about Rs 30,000 (rupees thirty thousand) per month. She is striving to increase to Rs 1 lakh per month in the near future.

### AWARDS AND RECOGNITION:

- She was conferred with the Babu Jagajeevan Ram Award on 23<sup>rd</sup> December (2017) at Dr. Rajendra Prasad Central Agricultural University on the occasion of ‘Mushroom Day’.
- She was awarded the State Level Best Mushroom Farmer Award during the celebration of Bihar Statehood Day on 22-24 March (2018). She had put a Mushroom stall at the exhibition there.
- While recognizing her contribution to Mushroom cultivation, a ‘Kisan Gosthi’ was organized by ATMA, Darbhanga at her residential premise wherein the Project Director, ATMA; Mushroom scientists Dr. Dayaram and Director of Extension Education Dr. A.K. Singh from Dr. Rajendra Prasad Central Agricultural University were present.

### IMPORTANT TO OTHER FARMERS:

- Everyone in the village appreciates Smt. Pratibha’s zeal and endeavor. Women of nearby villages have learnt the production techniques from her and established small units. This is helping them to earn additional income which serves as hard cash to the women-folk. Her message to other farmers is “मान लो तो हार है, टान लो तो जीत है” (if you concede defeat, you are a loser; if you decide to fight, you are a winner).





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## SUCCESS STORY OF RAIN WATER HARVESTING

Smt. Phyrnailang Kurkalang, Village: Mawjrong, C & RD Block: Khatarshnong-Laitkroh, District: East Khasi Hills, Meghalaya



### INTRODUCTION:

- Mawjrong is a village which falls under the Khatarshnong-Laitkroh C & RD block, the farmers here are highly dependent on rainfall for farming and the lack of regular supply of water for irrigation makes it difficult for the farmers to make their ends meet. The village receives an average rainfall of 12000 mm every year, but inspite of receiving heavy rainfall water scarcity is still an issue as they are unaware of the water conservation or water harvesting techniques.
- Smt. Phyrnailang Kurkalang, a farmer of this same village also suffers the same fate as the other residents. Her main obstacle is that water needed for the basic needs also has to be bought. Moreover, she faces more difficulty in rearing of cattle, pigs and poultry and cultivation of crops. To combat this problem Smt. Phyrnailang Kurkalang initiated water harvesting, she came up with an innovative idea of making a small ditch just outside of her kitchen where she collected all the used household water, which she used for cleaning the animal sheds.

### TRAINING:

- With the help of PMKSY & ATMA, it has assisted her to make another Jalkund (reservoir) in which she collected the rainwater and used the water for irrigating the polyhouse, the crops in the field, for feeding the cows, pigs and poultry and also for household use.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENT:

- The initiative of Jalkund or water reservoir has been a great success as it has increased her production on the farm and the availability of water has helped her in expansion of the cattle rearing, pig rearing and poultry. This has also given her the opportunity to make more sheds for the animals and provide proper water for feeding and for cleaning the sheds. Her initiative has been a boon for her neighbours too as they have followed the example set by her and have greatly benefited through this.



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## SUCCESS IN AGRO-FORESTRY



Smt Gurmeet Kaur, W/o ShriGurmeet Singh Village: Pathlawaa, Block: Banga, District:S.B.S.Nagar, Punjab. Contact details: 9914598226

### INTRODUCTION:

- Smt Gurmeet Kaur W/o S. Gurmeet Singh lives in village. She is very determined, wise, innovative and hardworking lady. She used to help her father in agriculture during childhood. After getting married, she does farming with well planned manner.
- She owns 8 acres land with a tubewell. She is ex member of village Co-operative Society, village Gram Panchayat and Ex President of village Mahila Mandal.
- She always applies inputs in the consultation with experts from Department of Agriculture and Horticulture and adopted latest Package of Practices of crops cultivation. Due to her adoption of improved practices in agriculture and allied sectors on her farm, natural resources and farm friendly organisms and birds are saved considerably. She never burns the crop residue and prefers to decompose the crop waste into the soil. It helps in improvement of organic matter of soil.
- Due to proper utilization of Farm Yard Manure and recommended dose of chemicals and fertilizers in her field, product quality of output improved considerably.
- Smt GurmeetKaur showing her training certificate and with Poplar Plantation

### TRAINING & MOTIVATION:

- She always participates in Exposure Visits and Farm Training camps organized under ATMA scheme. Demonstrations on latest techniques of crop cultivation are conducted on her farm under ATMA scheme.
- She has obtained training on dairy from Department of Animal Husbandry; Institute of Dairy Improvement; Phagwara and Bee Keeping training from Punjab Agricultural University, Ludhiana.

### ADOPTION OF INNOVATIVE TECHNOLOGY, PRACTICES AND ACHIEVEMENTS:

- She is doing diversification in Agriculture with vegetables, maize and agro-forestry. She is availing facility of subsidy on seed, pesticides, spray pumps and farm implements provided from Department of Agriculture

and Horticulture.

- She owns 8.0 acre, out of which 4 acre is under Poplar and mixed cropping. She is growing vegetables on 2.0 acre, 1.5 acre maize and fodder on 0.5 acre. During the year 2005-06 she has earned 9.0 lakh from 4.0 acre by growing poplar.
- During Rabi season, she always intercroops wheat and cauliflower, mustard in poplar field. During Kharif season, she is doing intercropping of Cucurbits (Gourd) with poplar from which, she is earning good income. This year she earned Rs 30,000 by growing lady finger on 4 kanal. For cultivation of Lady finger crop she adopts innovative and advanced agricultural practices, which helps in improvement of yield of crop by branching .
- Her farm is well connected to the nearby local market. She has well aerated godowns for storage of grains. She sells her produce very intelligently. During glut period she stores her produce and sells it in lean period. She believes in self marketing. Due to good quality of her produce, she fetches good price in the market.
- She is an innovative farmer and always interested in adoption of new techniques of crop cultivation. She is early riser and monitors her fields regularly. She is very hard worker. All family members work together in field operations and hire labours in peak season of crop. She applies the fertilizer in the fields on the basis of soil testing. She adds green manure in her fields and never burns the crop residue in the field, which helps in maintain the organic matter of soil. She has also adopted subsidiary occupations like vegetables cultivation, small dairy farming and back yard poultry. She has six milch animals and eight small calves. She sells approx. 15-16 lt. milk through self marketing in her village and earns Rs. 700 per day.

### IMPORTANCE TO FARMERS:

- She motivated her well qualified son to start backyard poultry with 300 Desi birds. Family get good income by selling of desi eggs through self marketing. She is torch bearer for all the farmers of her village.







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