

# Challenges Faced by Fisher women of South India Specific Reference to Andhra Pradesh

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# Background

- State Government wants to know the problems faced by the fisherwomen in Andhra Pradesh to take some policy decisions.
- Based on my earlier experience The University supported to find out the ongoing challenges

### Methodology:

- Detailed surveys were conducted in selected fisher villages.
- Information on Fishing Activities of Women
- In the 9 coastal districts of Guntur District
- 4 sea coast Mandals namely Bapatla, Pittalavari Palem, Nizampatanam, and Repalle.
- With one Preschool Child
- 30 Families from each Mandals (120 Families)

## Fishing activities of Women:

```
Marketing ---- 31%
Sun drying---- 31%
Salting-----31%
Netting -----40%
Any Other (Agricultural Work)-
----88%.
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### **National Agricultural Technology Project**



Studies on fisher women in coastal ecosystem of Andhra Pradesh, Karnataka, Kerala and Tamilnadu

PSR

Women is an economic partner to men, besides biological and social roles performed. Women too is equally endowed with the required qualities and managerial abilities that matter in successful entrepreneurship. The statuesque is gradually changing and time has come when one starts thinking, exploring and working towards the women entrepreneurship





PSK

#### Objectives



The major thrust would be on health, nutritional security, economic empowerment, natural calemity management and entrepreneurial development through ealf help groups.

### Achievements and observations

Bludies on fisher women in coastal eco-system of Andhra Pradesh, Karnataka, Kerala & Tamil Nadu and NATP reveal the Contract Information (Macro level Information), Socio-Economine Status of Fisher-women, Nutritional Status of Fisher-women, Nutritional Status of Fisher-women, Mutritional Status of Fisher-women and preschool children Anthropomotry of Raher, women and preschool and nutritional status of Fisher-women and preschool children Knowledge, Apillude and practice of Mutrition, Health and hygiene. Participation of women in post harvest fisheries sector

#### THE TEAM

#### Name of PLA CCPI of the contras

Department of Foods & Nutrillon

Dean Faculty of Home Eclence & Principal Investigates

#### CO-OPERATING CENTRES

Cullege of Fishery Science, Multiukui
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Technical officer CCFI

College of Fisheries Science, Mangalore
30 H.S. Sudhakara
Professor A. CCP

Control Marine Fisheries Research Institute, Chennul

Pincipal Scientist & QUP

#### Development of educational materials

CDs development, Pamphiets, Folders, Flash cards, Brochures

#### Fabrication of Equipment & Patents

Low cost ice cream freezer. Multipurpose fresh fish vending & display table

### Income generation activity & Technologies Developed

Mushroom cultivation. Fabric painting, Value addition
Value addition to that a prawn products. Artificial poart culture, Processing of salt flah, Mushroom cultivation. Alternative use of millets

#### Policy recommendation



The employment and income potential existence in the Fisherwomen production, Fish processing, Non — fishery related income fields can be explored to provide training in alternate income generating scitivities to fisherwomen

#### Success stories



Mrs. Threests - Kerals | New site could sam at amount of Rs. 10000\*, per month from calm processing and vending.
 Smt Banumail Rackers - Elevated from flat vending to les plant ownership.
 Smt.P.Roopavathy, Kovalam flating village, Kanchipuram : Venturing into small time business like fish vending, live fish trade and cured flat sales.



### MULTIPURPOSE FRESH FISH VENDING AND DISPLAY TABLE

- ➤ There is a considerable demand for fresh fish in India, as much as 70% of the marine fish landed is sold as fresh and almost the entire quantity of fresh water fishes are consumed as fresh.
- There is a need to improve the infrastructure at markets facilitating th retail fish traders in maintaining the quality of fish and realize better price, the consumer in turn is benefited with better quality fish.
- From the table it is evident that fresh fish can be kept for over two weeks in good condition at 0oC.



### LOW-COST ICECREAM FREEZER





### The following are advantages of the instrument.

- $\rightarrow$  The cost of the equipment is low (Rs.4,000/-)
- No technical know-how is needed
- Labour is not required as in the traditional ice-cream making
- Ice cream can be prepared by a lay man also
- $\triangleright$  Capacity per batch is 4.5 6 lts.
- Time required per batch is 5-7 minutes.



vital role in the operation of India's fisheries and aquaculture industries.

Clam collection
Prawn Seed Collection
Sorting
Marketing

### Aquaculture

Fish farms Shrimp farms Shrimp hatcheries

### Labour at landing centres

Loading ice to boat
Unloading fish from boat
Loading fish to tempos
Sorting of fish

Fresh Fish Marketing

# Activities of Women in Fisheries

### **Traditional fish processing**

Salting and drying of fish

### **Dressing of fish**

Surimi Units

### **Processing plants**

Peelers Graders Packers

### By Products units

Fish meal Oil Liver oil units Manure

### **Constrains of women in post harvest fisheries**

### **RAW MATERIAL**

Seasonal availability
Uncertainties of catch / scarce
supply of fish
High perishability
Intense competition
Long waiting
Non availability of ice
Losses due to spoilage
Poor quality
Lack of cold storage facility at
markets

### **NEEDS**

Increase income
Reduce losses
Provide appropriate
tools and
accessories
Education and
training
Increase savings
Generate alternate
income sources

#### **HEALTH & NUTRITION**

Lack of knowledge on food and health Poor general hygiene Inadequate food consumption Nutritional deficiency – low intake of macro and micro nutrients Lack of awareness on child care

### CONSTRAINTS OF WOMEN IN POST HARVEST FISHERIES

Low income

### **GENERAL**

Long distances
Inadequate facilities for women at markets
and landing centre
Declining fish catches
Have to support facilities
No alternate income source
Use of inappropriate tools and accessories
High interest rates

Lack of transportation facilities

### TRADITIONAL PROCESSING

Labour intensive Non availability of good quality salt Lack of knowledge on hygiene Scarcity of potable water Lack of space for drying Adverse climates Inadequate drving Losses in drying on roadsides Losses during storage by insect infestation, browning Drying at floor levels Lack of facilities in drying yards (Raised platform drying racks) Informal trading - large number of intermediaries. Lack of storage facilities. Low profit margins Risks and uncertainties Inappropriate use of insecticides Low quality products

### ADVANTAGES TO BE IN POST HARVEST

Flexibility in working hours
Immediate returns
Skill and expertise
Strong demand for fresh and dry/salted fish
Low investment
Low working costs
Support from the

family

### Vital Role of Fisher Women:

- Fisheries in India account for 2.5% of the gross domestic product
- Generate powerful income and employment
- Play a vital role in the operation of fisheries continuing growth as a component of Agriculture Sector of the economy.
- Postharvest Handling; Preservation;
- Processing; Marketing of seafood's;
- Provide an interlink between Producer & Consumer.

### **Regional Opportunities:**

Fresh Fish marketing & Traditional Fish Processing – Preferred Activities: Clam collection & processing; Fish Processing; Fish & shrimp Farms & hatcheries Prawn seed Collection Salt Loading Byproduct units

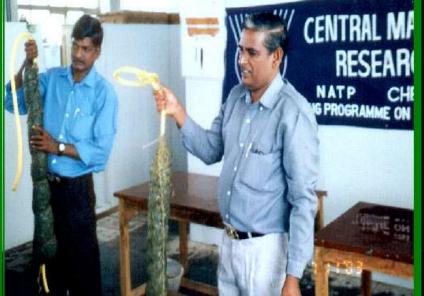
### Constraints:

Many suffer from poor health, Hygiene & Nutrition
Lack of Education, Child Care Transportation
Uncertain Catches with varying Quality, highly perishable, lack of cold storage & Intense competition
Scarcity of Potable water,, space for Dry, Adverse weather condition, loses through insect infestation, Product Quality issues, low profit margins.

Lack of Storage facility, Health Hazards, long hours of working in hot son, walk long distances with head load, Back aches, head Aches, Chest, Shoulder, Joint and muscular pain, Skin infections Breathlessness









FISHERWOMEN
ATTENDING A LECTURE



TRAINEES WITH ALL PREPARATIONS

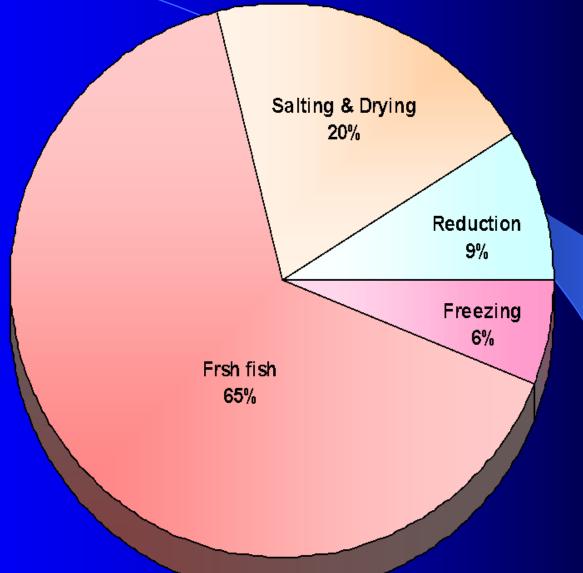


TRAINING ON FRUIT PRESERVATION



FABRIC PAINTING IN PROGRESS

### Fish utilization trend in India



### TRAINING PROGRAMS







#### RESULTS

Geriatric foods/ Malted infant food/ Amylase Rich foods/ Therapeutic foods/ Weaning foods, Value addition to fish & prawn products/ artificial pearl culture/ Processing of salted fish was used.

Home based low cost energy protein rich preparations using Horse gram (Dolichos Biflorus) for vulnerable groups

Financial support: ICAR

Ragina: (Germinated ragi flour 40g+ puffed horse gram flour + jaggery 35 g +

crude red palm oil 5 g)

EPRF : (Dehusked roasted horse gram flour 40 g + Dehusked roasted soya flour

20g +jaggery 35g+ crud red palm oil 5g)

This horse gram which is commonly used for cattle feed can be diversified for human consumption with less investment.

### Therapeutic food supplementation in ICDS projects of Andhra Pradesh

Financial support: World Bank

Sweet Ready Mix (SRM) 3 types Therapeutic Food (TF)

Therapeutic food with

amylase rich flour

To reduce grade III and Grade IV malnutrition pre-school children in rural and tribal areas.

Supplementary food of 70g (cereal, pulse and ail seed combination) meet the nutritional requirements of a pre-school child. Feeding carried out on 2267 children of age range of 1-3 years.

100 g of supplement provides: 400 to 480Kcal 12.5 to 13.8 g protein

To study the effect of feeding malted food on the nutritional status of vulnerable groups

Financial support: Department of Biotechnology

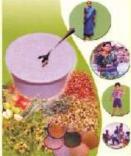
Amylase rich malted mixes (ARMM) are 2 types namely using ragi/wheat

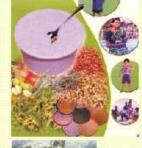
Pre-school children 400

Pregnant women 100 3 months

Lactating women 100

Promotion of malt based small scale food industry not only provides opportunities for rural women to develop entrepreneurship and employment but, also provides food and nutritional security through income generation.











#### PATENTS RECEIVED

### Fresh Fish Vending & Display Table



W/o Devi Horigrased, D.Na. 23/321, Rochupeto, Hindo College Road Machligatnam 527001





#### **TECHNOLOGIES DEVELOPED**

- Value addition to fish & prawn products
- Artificial pearl culture
- · Precessing of salt fish
- Mushroom cultivation
- Alternative use of millets

### Television programme to create awareness

- a) Rytu mitra phone in programme (live telecast)
- Mushrooms for 30 minutes on January 2002
- Food adulteration and health for 30 min, on March 2002
- b) Interview programme on Doordarshan under Gramadarshini programme
- Mushroom cultivation for 18 min on September 2001
- Millets Nutritive value 14 min. on May 2003



SUCCESS STORIES SUCCESS STORIES SUCCESS STORIES

#### Mrs. Theressa

A successful clam processor cum-vendor at Thekkumbhagam in Kollam District Now she could earn an amount of Rs 10,000/-pm from calm processing and vending. This income supplements the income of her husband from fishing activities. Her message to the society is "IF HARD WORK AND PERSEVERANCE IS THERE, WOMEN CAN REACH TO ANY LEVEL".

### Mrs. Amalorphavam

An enterprising fish vendor at Poovar in Thiruvananthapuram District (Kerala) The daily earnings range from Rs 100-500. She is a member of Self Help Group (SHG) of Poovar and commanding reasonably good respect among the neighborhood. Amalorphavam is a happy women now and strongly suggest that "WOMEN IN FISHING VILLAGES CAN EASILY TAKE UP FISH TRADE OR DRIED FISH TRADE AS AN OCCUPATION".

### Mrs. Bhageerathy

Fishing-cum-marketing as a family enterprise (Kerala), her earning range from Rs. 15,000 – 20,000 / Month. Bhageerathy states that women in fisheries sector can always play a key role to supplement the family income. They can always promote the habit of savings and this will help the family to tide over the lean season and also make appropriate productive investment. She feels that "FISH TRADE ALWAYS FORM THE EASIEST AND ALTERNATIVE EMPLOYMENT AVENUE FOR FISHER WOMEN OF COASTAL REGION".

#### Smt. Banumati Karkera

From fresh fish vending to ice plant ownership (Karnataka), her earnings on an average Rs. 30,000/- Month. The high demand for fresh fish in Kerala state made her expand her territory as far as Kasargod, Cannonore and Calicut. The demand and cost of ice was high. This made Banumati to think about starting a Ice Factory. Though she was reluctant initially, with encouragement from her family members and bank, she established "Gajanana Ice and Cold Storage" with a capacity of 15 tonnes per day at Hoige Bazaar about 2 Kms from Mangalore fish landing centre. Smt. Banumati attributes her success to hard work and her will to cross all hurdles with a desire to earn more.

Smt. Hemavathy Puthran (Karnataka) Following the footsteps of her mother in dried fish marketing. Getting more than Rs.40,000/ Month. Hemavathy was introduced to traditional processing of fish by her mother Sheshamma. Since then, she is processing all types of fishes. Fish varieties mostly used by her are Mackerel, Sardine, Soles, Anchovies, Small sized Shrimps, Silver belly and lizard fish. Hemavathy feels happy. By following the footsteps of her mother she has achieved what she wanted and she is proud of her profession as she could give employment to five members.

### Smt. P. Roopavathy

Kovalam fishing village, Kanchipuram (Tamil nadu), getting Rs. 12,000 – 15,000/-Month.

She has studied up to eighth standard and she had an opportunity to work as an enumerator for a research project of the institute. At that time, her talents were identified by the project leader who initiated the survey. She was motivated to form a SHG comprising women of similar interest. But the picture was not rosy and there were many

objections to her. But she overcomes the objections with the help of the awareness meetings organized by Dr. H.M. Kasim, CCPI, Chennai about the importance and advantages of the self help groups. Now many women joined the SHG and Smt. Roopavathy became a trusted leader of that group and she is the secretary of the SHG. Thus a shy and introvert Smt. Roopavathy has transformed herself into a leader and organized which not only helped to improve the socio-economic status of other family and also of other members of her village. Yet it is very much fitting here to quote her as one of the role model for the fisher women.

### Smt, Gapala Pentamma

Mypadu of Uppada hamlet of Kakinada (Andhra Pradesh), getting Rs. 30,000 / Month.

With the financial assistance she started a small net making unit in her hut by employing three fisher women at a wage rate of Rs 40/- per day. Her interest, hard work and motivation by the institutional organizations saw her emerge as a successful entrepreneur from an average individual. She has some aspirations like diversifying her enterprises in value added fish products after getting trained in that field. She is also seeking financial help to attempt the new ventures.

SHG fisher women of Andhra Pradesh-East Godavari, West Godavari, Prakasham District (9 villages); Karnataka - Dakshina Kannada, Udipi Districts (6 villages); Kerala - Alapuzha, Kollam (5 Villages); Tamilnadu-Chennai, Tuticorin District (6 Villages) are using the technology regularly for economic enhancement were showed the visibility of economic enhancement.

#### **ACKNOWLEDGEMENTS**

I express my sincere thanks to World Bank, ICAR & NATP for their financial support during the project period

Callege of Fishery Science, Muthukur, Callege of Hame Science, Bapatla, CMFRI- Chennar, CMFRI-Cachin and Callege of Fisheries, Mangelers for their cooperation, support given in successful and smooth numing of this project. Round Table Conference With Mrs. Laura Bush on Economic empowerment of Women (March, 2006)



Visit of Chief Minister of A.P. Dr. Y. S. Rajashekar Reddy & Hamble President of US Mr. George W Bush



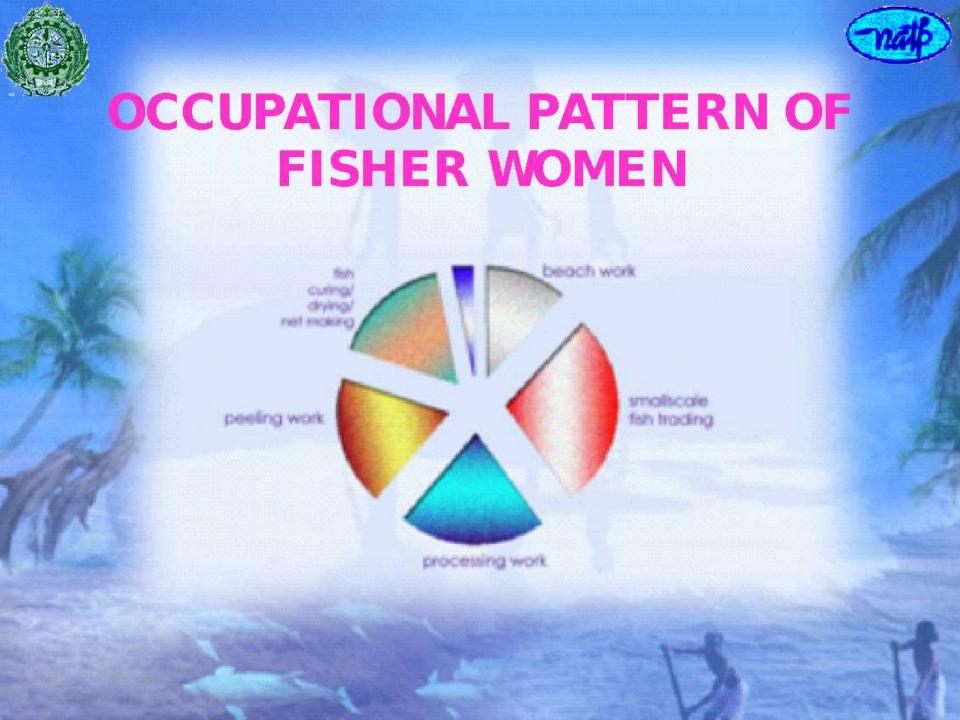
Eminent Woman Scientist Award (12-10-2012)





### CONCLUSIONS

The above fisher women have attained the training and awareness from National Agricultural Technology Project, implemented in their places and enhanced their socio-economic status through various skill oriented training programmes and continuous day-to-day discussions with the scientists.







### Women in Post-Harvest Fishery

- Once the fish are landed
- > They take charge of it regarding sales
- Drying and processing and related aspects
- > Their efforts have not been quantified effectively so far.





# Technologies developed

- \* Value addition to fish & prawn products
- Artificial pearl culture
- \* Processing of salt fish
- \* Mushroom cultivation
- \* Alternative use of millets



### **Constraints:**

Many suffer from poor health, Hygiene & Nutrition

Lack of Education, Child Care, Transportation

Uncertain Catches with varying Quality, highly perishable, lack of cold storage & Intense competition

Scarcity of Potable water,, space for Drying, Adverse weather condition, loses through insect infestation,

**Product Quality issues, low profit margins.** 

Lack of Storage facility,

Health Hazards, long hours of working in hot son, walk long distances with head load,

Back aches, head Aches, Chest, Shoulder, Joint and muscular pain, Skin infections Breathlessness

# Care Required:

Socio Economic Empowerment Education about Nutrition, Health, Sanitation, Child Care, Current technologies, Best Practices Techniques.

### The Vulnerability of Fisher Women

- 1. Education and training
- 2. Poor Housing and Sanitation
- 3. Health: Nutritional Food is a vital factor determining health.
- 4 . Physical mobility
- 5. Access to credit
- 6. Marketing Problems
- 7. Entrepreneur Development Program
- 8. Impact of technology

### **Problems**

- The socio-economic conditions of the fisher women have been neglected.
- Better marketing facilities for fish venders.
- increase the purchasing power
- To educate the fisher women on small family norms.
- Processing low cost fish in to value added
- Extensions programs for farm women should be one of the target groups.
- Cooperatives may be organized for women engaged in processing and trading of fish
- Properly trained and educated women should be deployed as link workers

# The fishery sector has witnessed serious crises during the last decade problems like

- lack of finance,
- lack of storage facilities and quick delivery of input,
- lack of ice-plants, lack of awareness of market information,
- uncertain quality of fish, faulty measurement system,
- lack of market infrastructure,
- imbalance between demand and supply of fish,
- low level of education among fishermen,
- and lack of availability of other and alternative profitable occupation
- inadequate income and relatively high level of expenditure
- extremes of climate,
- natural calamities like floods and draught, the tsunami,
- lack of appropriate policy measures,
- weak organizational structure of fishermen cooperatives,
- failure of the cooperative system,
- lack of transportation facilities, and the like.

### Recommendations

Training program for Empowerment (Economically, **Socially & Political) Product Development through Formal Training** Training in efficient utilization of Fisheries Resources Training of master Resource Persons from existing Fisher Women **Employment generation Basic Principles of Hygienic handling Keeping Quality & Marketability Imparting Locally relevant economically Viable Technologies** Government to set up Marketing, Cold Storage facilities

### The Happy Balance Sheet of Life:

8 F----- Faith, Family & Friends

8 H------ - Health, Hygiene & Hobby

8 S ----- Social, Service & Smile



- Promotion of malt based small scale food industry provides
  - Entrepreneurship
  - > Employment



Food and Nutrition security through income generation

